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San Diego Unified Port District
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Part III of III

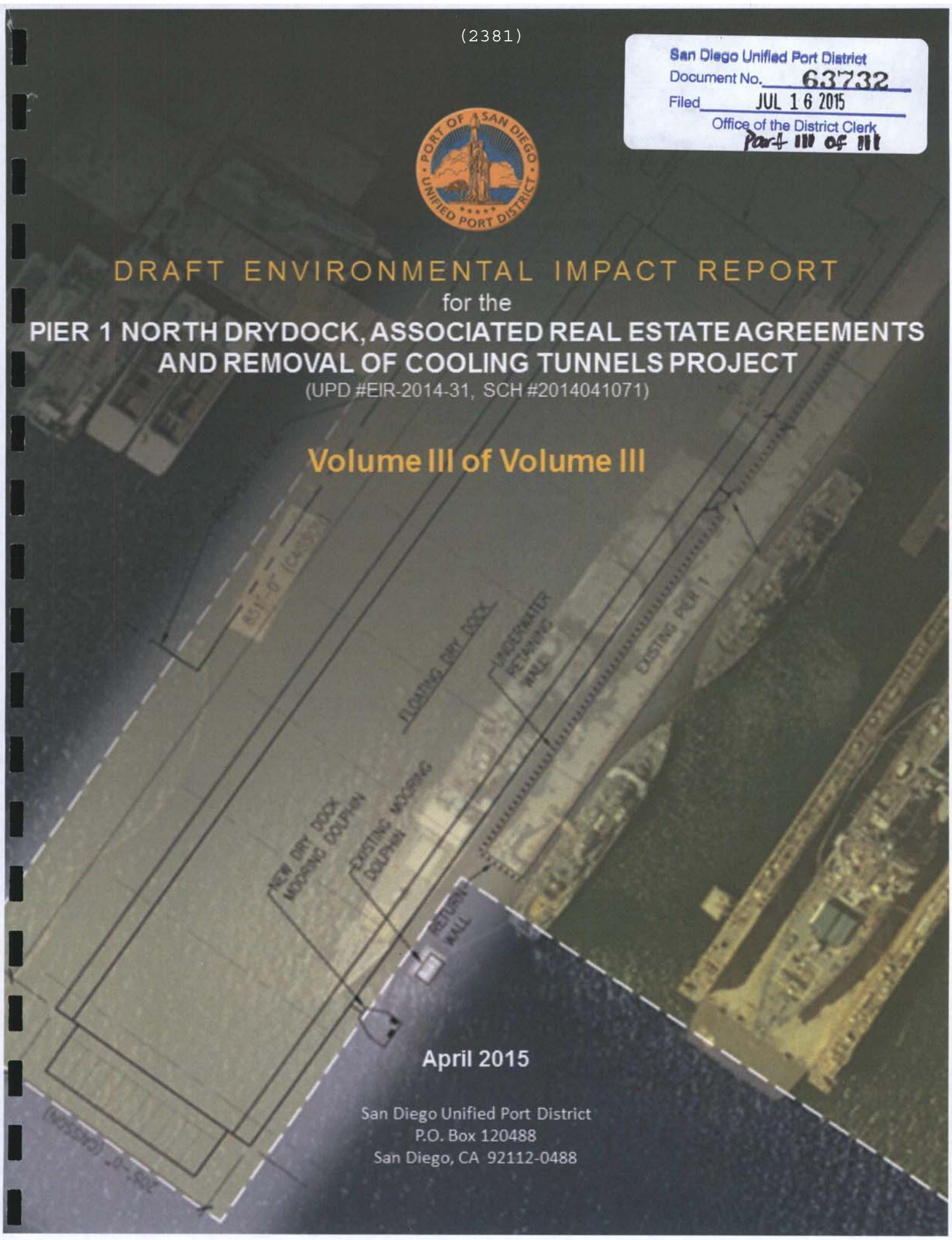
DRAFT ENVIRONMENTAL IMPACT REPORT

for the

PIER 1 NORTH DRYDOCK, ASSOCIATED REAL ESTATE AGREEMENTS AND REMOVAL OF COOLING TUNNELS PROJECT

(UPD #EIR-2014-31, SCH #2014041071)

Volume III of Volume III



April 2015

San Diego Unified Port District
P.O. Box 120488
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APPENDIX D

HAZARDS AND HAZARDOUS MATERIALS TECHNICAL REPORT

FINAL
PIER 1 NORTH DRYDOCK, ASSOCIATED REAL ESTATE AGREEMENTS, AND REMOVAL OF COOLING TUNNELS PROJECT
HAZARDS AND HAZARDOUS MATERIALS TECHNICAL REPORT
BAE SYSTEMS SAN DIEGO SHIP REPAIR
SAN DIEGO, CALIFORNIA

Submitted to:

Unified Port of San Diego

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January 2014

AMEC Project No. 1415100700

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ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Environment & Infrastructure, Inc.
BAE Systems	BAE Systems San Diego Ship Repair
BMP	best management practice
Board	District's Board of Port Commissioners
Cal-DOT	California Department of Transportation
CAO	Cleanup and Abatement Order
CAP	Corrective Action Plan
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CWA	Clean Water Act
cy	cubic yards
DEH	Department of Environmental Health
District	San Diego Unified Port District
DMP	Dredging Management Plan
EIR	Environmental Impact Report
EPCRA	Emergency Planning and Community Right-to-Know Act
ERL	effects range-low
ERM	effects range-median
Findings	Findings of Fact
HASP	Health and Safety Plan
HMBEP	Hazardous Materials Business Emergency Plan
ITM	Inland Testing Manual
JURMP	Jurisdictional Urban Runoff Management Program
LA-5 ODMDS	LA-5 Ocean Dredged Material Disposal Site
LEA	Local Enforcement Agency
LSA	LSA Associates, Inc.
MLLW	mean lower low water
MMRP	Mitigation Monitoring and Reporting Program
MPRSA	Marine Protection, Research, and Sanctuaries Act of 1972
NDT	National Dredging Team

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ACRONYMS AND ABBREVIATIONS (Cont.)

NOD	Notice of Determination
NPDES	National Pollutant Discharge Elimination System
ODMDS	Ocean Dredged Material Disposal Site
OSHA	Occupational Safety and Health Administration
Pier 1N	Pier 1 North (northern side of Pier 1)
PEIR	Program Environmental Impact Report
POSD	Pride of San Diego (dry dock)
POTW	publically owned treatment works
Proposed Project	Pier 1 North Dry Dock Project
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
SAM	Site Assessment and Mitigation
SARA	Superfund Amendments and Reauthorization Act
SDG&E	San Diego Gas and Electric
SDRWQCB	San Diego Regional Water Quality Control Board
SDSR	San Diego Ship Repair
SOC	Statement of Overriding Considerations
SOP	Standard Operating Procedure
SUAD	suitable for unconfined aquatic disposal
SUSMP	Standard Urban Storm Water Mitigation Plan
SWDS	storm water diversion system
SWPPP	Stormwater Pollution Prevention Plan
TSCA	Toxic Substances Control Act
TUOP	Tidelands Use Occupancy Permit
USACE	United States Army Corps of Engineers
US DOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
USMP	Urban Storm Water Mitigation Plan
WDR	Waste Discharge Requirements
WQC	Water Quality Certification

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1.0 INTRODUCTION

The Proposed Project is referred to as the *BAE Systems San Diego Ship Repair Pier 1 North Dry Dock Project*. The project site is located on and adjacent to San Diego Bay at the BAE Systems San Diego Shipyard (BAE Systems) facility located at 2205 East Belt Street in San Diego, California (Figure 1-1). As described in detail in the separate Project Description, there are three separate components that comprise the Proposed Project:

1. Performing pier and landside upgrades, dredging, and installation of a new dry dock on the northern side of Pier 1 (Pier 1N);
2. Entering into a future, long-term real estate agreement with the San Diego Unified Port District (District) on the neighboring 2.0-acre land parcel and 4.0-acre water area that is currently leased by BAE Systems under a Tidelands Use and Occupancy Permit (TUOP); and
3. Performing a program level analysis for the potential removal of the intake/discharge tunnels that currently exist within the TUOP parcel as well as any associated soil or groundwater remediation efforts.

This Technical Report focuses on the hazards and hazardous materials (e.g., hazardous conditions or releases that could potentially occur) associated with installation of the new dry dock and removal of the of the intake/discharge tunnels that currently exist within the TUOP parcel. The removal of the cooling tunnels are considered on a programmatic level. There are no hazards and hazardous materials impacts associated with the future, long-term real estate agreement. The hazardous material impacts related to the potential remediation efforts associated with the removal of the intake/discharge tunnels are also discussed in a separate Phase I assessment report (Ninyo & Moore, 2014).

The major tasks that comprise the dry dock installation component of the Proposed Project include:

- Dredging of approximately 395,000 cubic yards (cy) of San Diego Bay bottom on the northern side of Pier 1 to accommodate the operation of the new dry dock;
- Aquatic (and potentially upland) disposal of the dredged materials;
- Installation of an underwater sheet pile wall and cantilevered king pile on the northern side of the existing Pier 1;
- Installation of new ramp wharf structures that will be used to access the dry dock;
- Installation of one new, one retrofitted, and one expansion of mooring dolphins to secure the dry dock;
- Final dry dock assembly work and deployment of the new dry dock on the northern side of Pier 1 (most of the dry dock assembly will be done offsite);
- Installation of new electrical and mechanical utilities to service the dry dock; and

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- Dry dock operation (e.g., loading and unloading of vessels; vessel repair and maintenance operations; dry dock maintenance).

The major tasks associated with the removal (and associated soil and/or groundwater remediation) of the intake/discharge tunnels and associated structures that currently exist within the TUOP parcel include:

- Excavation of soil
- Dewatering
- Installation of shoring to protect excavation
- Demolition and removal of tunnels (concrete) and remaining offshore separation structure[1]
- Backfill with clean structural fill and installation of a rock covered slope from the top of the submerged sheet-pile wall to the level landward parcel
- Potential soil and groundwater characterization and potential remediation (if required)
- Disposal of soils (if required)
- Replacement of numerous structures, equipment, and operating systems currently located over the tunnels
- Installation of shoreline revetment to protect backfill in tunnels.

The potential hazards and hazardous material associated with the major activities listed above are discussed in this Technical Report. Project-related hazards, such as the potential construction and/or operations-related release of hazardous materials into the environment, exposure of people to known sources of existing hazardous materials, and generation of hazardous materials, are presented in this report. In addition, mitigation measures are proposed, when necessary, to reduce impacts associated with the Proposed Project to a level less than significant.

Hazards and hazardous materials impacts associated with the dry dock installation component of the Proposed Project that might occur as a result of the following construction and operation activities include:

- Dredging and dredged material disposal;
- Construction activities during sheet pile and king pile installation;
- Construction activities during dry dock access ramp installation;
- Construction activities during mooring dolphin demolition and installation;

[1] The former tenant of the TUOP parcel (San Diego Gas & Electric) may decide to remove the cooling tunnels outside the District's jurisdiction. However, this environmental document only analyzes environmental impacts associated with removing the tunnels within the District's jurisdiction. Any proposal to remove the cooling tunnels outside the District's jurisdiction may necessitate additional permits and/or additional environmental analysis.

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- Trenching and other construction activities related to installation of the electrical and mechanical utilities needed to service the new dry dock;
- Deployment of the new dry dock, including any onsite assembly and test activities; and
- Operations of the new dry dock, including ship loading and unloading, ship repair and maintenance activities, and long-term dry dock maintenance needs.

Hazards and hazardous materials impacts associated with the removal (and associated soil and/or groundwater remediation) of the intake/discharge tunnels and associated structures that currently exist within the TUOP parcel are:

- Release of potentially contaminated soil or water during construction or removal materials;
- Turbidity caused by runoff on exposed soil surfaces or other accidental release;
- Accidental fuel or oil spills by equipment during construction;
- Potential hazardous work environment associated with construction and demolition; and
- Potential impacts to groundwater.

Ongoing Activities within the Project Footprint

A portion of the Proposed Project area (the nearshore area on the northern side of Pier 1) is currently being managed under the San Diego Shipyard Sediment Remediation Project (Figure 1-2). The San Diego Shipyard Sediment Remediation Project is the approved remedial action in response to the Cleanup and Abatement Order (CAO) No. R9-2012-0024 of the San Diego Regional Water Quality Control Board (SDRWQCB, 2010a and 2010b).

The San Diego Shipyard Sediment Remediation Project consists of a planned cleanup for marine sediments that contain elevated levels of contaminants of concern above CAO cleanup levels. On July 16, 2013, the District's Board of Port Commissioners (Board) considered the Final Program Environmental Impact Report (PEIR) and post-Final PEIR certification documents (e.g., Waste Discharge Requirements [WDR] and Clean Water Act (CWA 401 Water Quality Certification [WQC]) prepared by the SDRWQCB; adopted the Findings of Fact (Findings) and Statement of Overriding Considerations (SOC); adopted the Mitigation Monitoring and Reporting Program (MMRP); and authorized District staff to file the Notice of Determination (NOD) for the San Diego Shipyard Sediment Remediation Project.

All current and future remedial activities associated with the San Diego Shipyard Sediment Remediation Project are planned to be completed prior to commencement of the Proposed Project; therefore, dry dock dredging activities will not overlap with the remediation activities. Consequently, this Technical Report does not address the potential hazards and hazardous materials impacts associated with the San Diego Shipyard Sediment Remediation Project dredging, as they have been thoroughly evaluated in a separate certified California Environmental Quality Act (CEQA) document (SDRWQCB, 2011) and associated Hazards and Hazardous Material Technical Report (Geosyntec, 2011).

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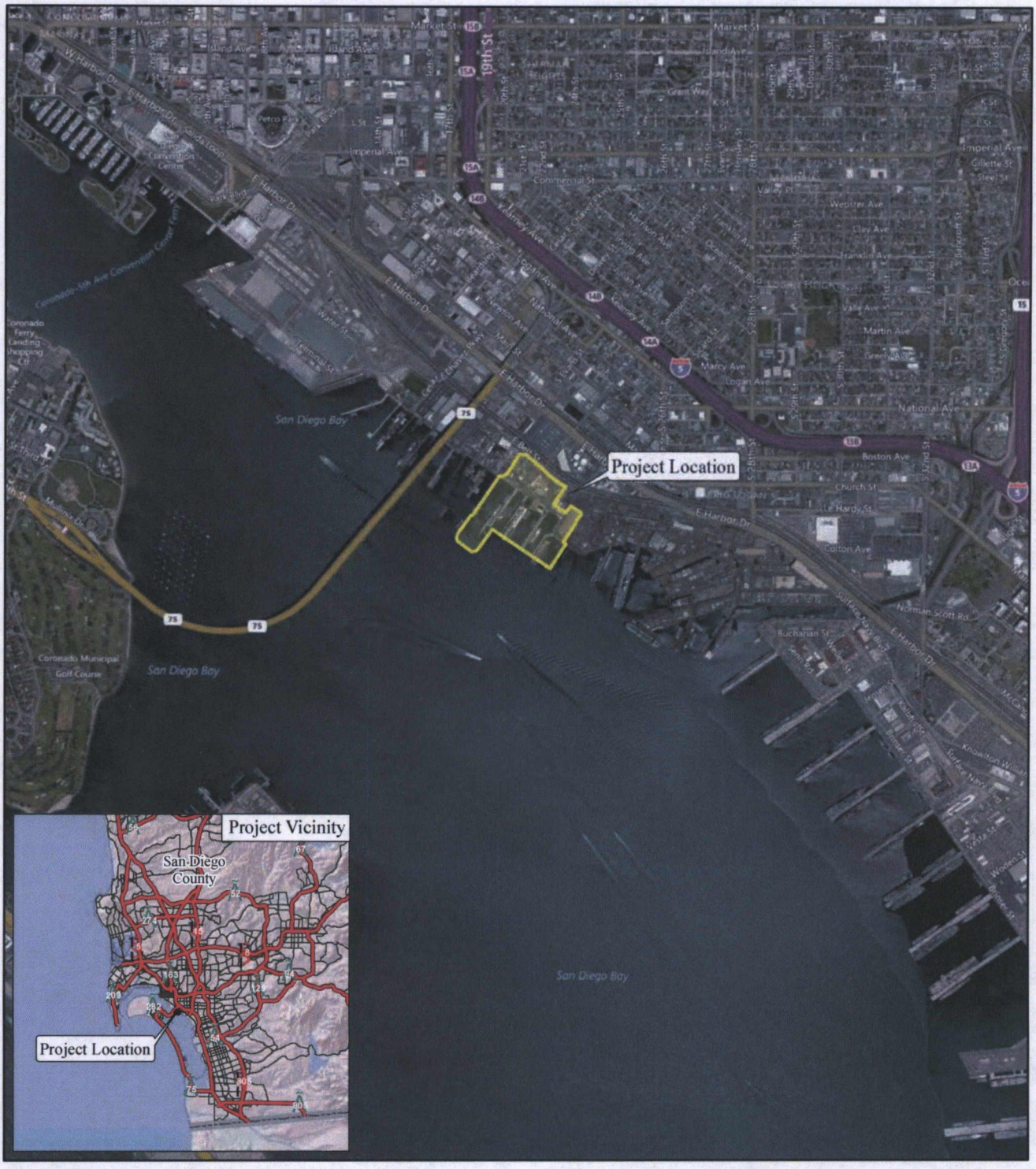

SOURCE: LSA, 2014, (Original file from Bing Maps, 2012, and BAE Systems, 6/2014)

Regional and Project Location
Pier 1N Dry Dock Project
Hazards and Hazardous Materials Technical Report
BAE Systems San Diego Ship Repair

FIGURE
1-1

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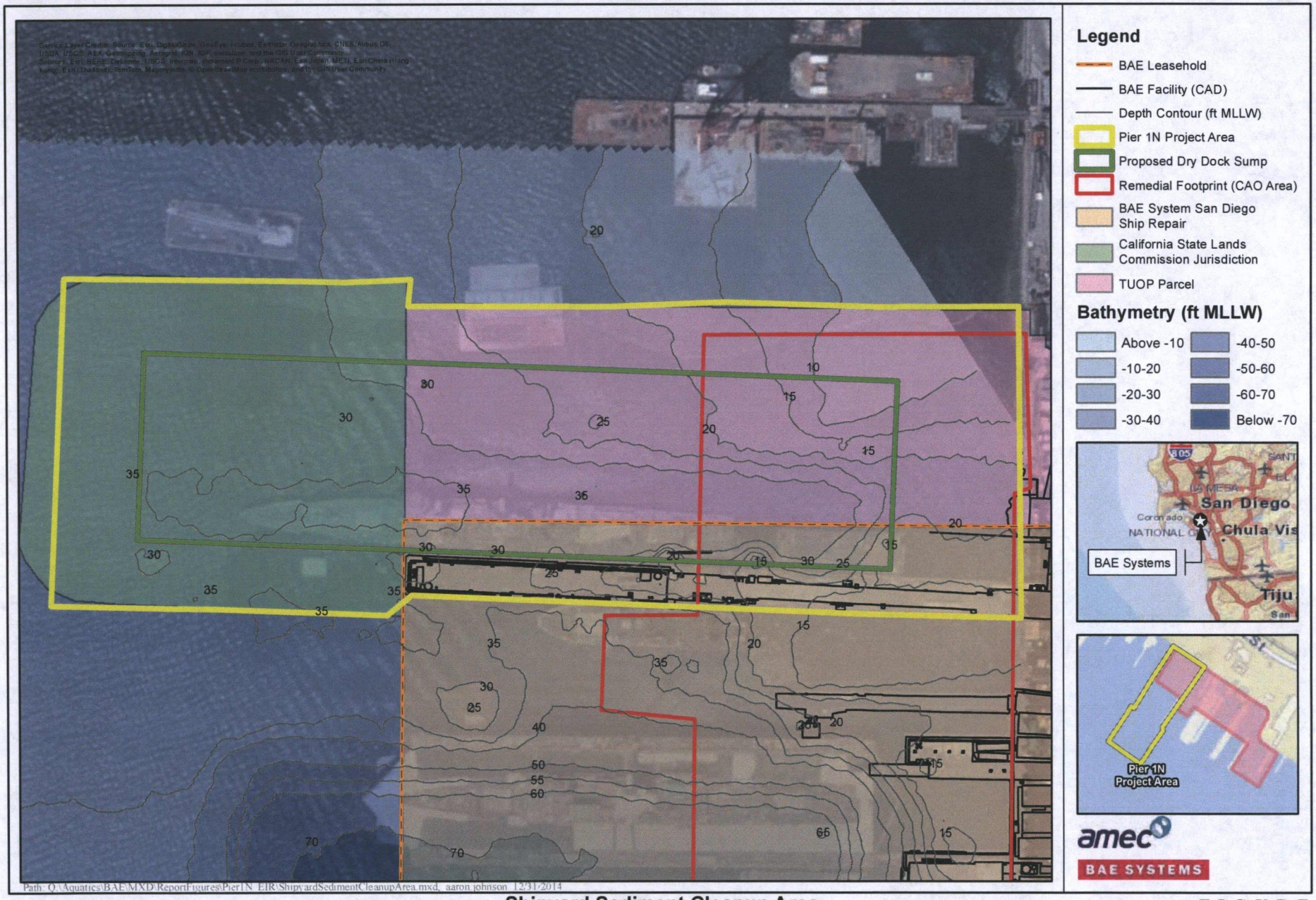

Shipyard Sediment Cleanup Area
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

1 inch = 150 feet
0 75 150 Feet

FIGURE
1-2

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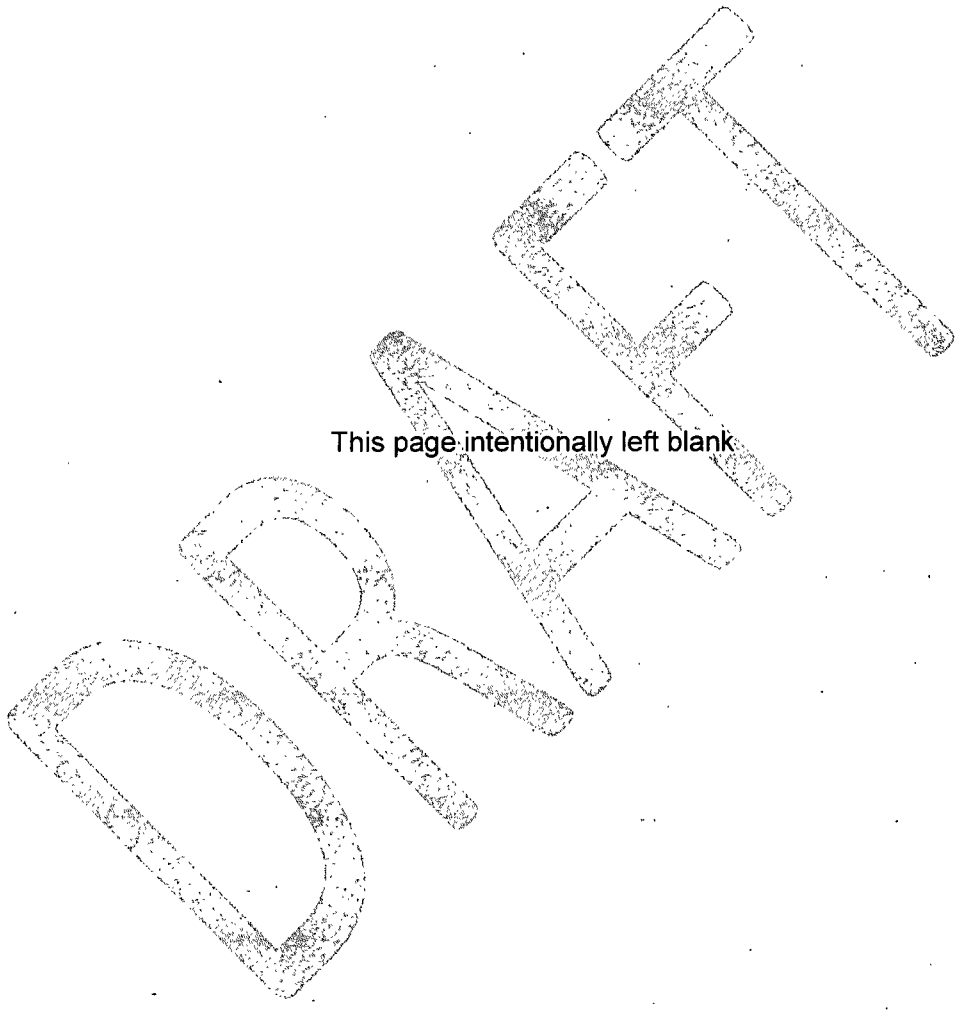

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2.0 PROJECT DESCRIPTION

The Proposed Project includes three main components: (1) installing a new dry dock on the northern side of Pier 1; (2) entering into a future, long-term real estate agreement with the District on the neighboring 2.0-acre land parcel and 4.0-acre water area that is currently leased by BAE Systems under a TUOP[2]; and (3) conducting a program-level analysis of potential remediation efforts associated with the removal of the intake/discharge tunnels that exist within the TUOP parcel. Each component is described in detailed in the separate Project Description under separate cover.

The tasks associated with each component include the following:

Component 1: Installing a New Dry Dock on the Northern Side of Pier 1

Tasks for this project component are depicted on Figure 2-1 and include:

- Dredging activities to accommodate the new dry dock down to -65 feet mean lower low water (MLLW) and removal of approximately 395,000 cubic yards (cy) of dredged material.
- Installation of a 700-foot-long sheet pile protection wall (i.e., underwater retaining wall) along the existing Pier 1 northern side and cantilevered king piles.
- Installation of over-water structure(s) (three independent structures over an area of approximately 18,692 square feet), two 26-foot by 33-foot mooring dolphins (344 feet and 890 feet offshore to the west of the U.S. Bulkhead Line) and one expansion of an existing mooring dolphin, in addition to the installation of electrical and mechanical utilities to support the dry dock.
- Installation (including some final assembly) of a new floating dry dock approximately 205 feet in width and 851 feet in length (174,455 square feet total) plus aprons (approximately 16,165 square feet total) attached to the dry dock on each end.

Figure 2-2 depicts before (existing) and after (proposed) conditions for the dry dock component of the Proposed Project. The dry dock component will be executed in multiple phases. These phases are discussed in greater detail in Section 1.4.2 of the Project Description (under separate cover).

Component 2: Entering into Future, Long-term Real Estate Agreement with the District on Land Currently Leased by BAE Systems

This project component includes:

[2] At the time of preparation of this Water Quality Technical Report, the Tidelands Use and Occupancy Permit (TUOP) with SDG&E, dated November 1, 2009 (Document No. 55689) expired on October 31, 2014. This parcel is currently leased to BAE Systems by the District via a 5-year TUOP.

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- Extension of the existing lease for 9.8 acres of land and 16.6 acres of water and entering into a new lease for the 2-acre landside and 4-acre waterside parcel currently leased by the District to BAE Systems through a Tidelands Use and Occupancy Permit (TUOP).

Component 3: Removing Intake/Discharge Tunnels on the TUOP Parcel.

A portion of the water quality impacts related to the potential remediation efforts associated with the removal of the intake/discharge tunnels are discussed in a draft Phase I Environmental Site Assessment (ESA) report (Ninyo & Moore, 2014). The location of the intake/discharge tunnels is depicted on Figure 2-3.

Tasks for this for project component include:

- Excavation of soil
- Dewatering
- Installation of shoring to protect excavation
- Demolition and removal of tunnels (concrete) and offshore excavation structures
- Backfill with clean structural fill and installation of a rock covered slope from the top of the submerged sheet-pile wall to the level landward parcel
- Potential soil and groundwater characterization and potential remediation (if required)
- Disposal of soils (if required)
- Replacement of numerous structures, equipment, and operating systems currently located over the tunnels
- Installation of shoreline revetment to protect backfill in tunnels.

This technical report evaluates hazards and hazardous materials associated with the new dry dock (Component 1) and provides a program level analysis of the proposed removal of the cooling tunnels (Component 3). The hazardous material impacts related to the potential remediation efforts associated with the removal of the intake/discharge tunnels are also discussed in a separate Phase I assessment report (Ninyo & Moore, 2014).

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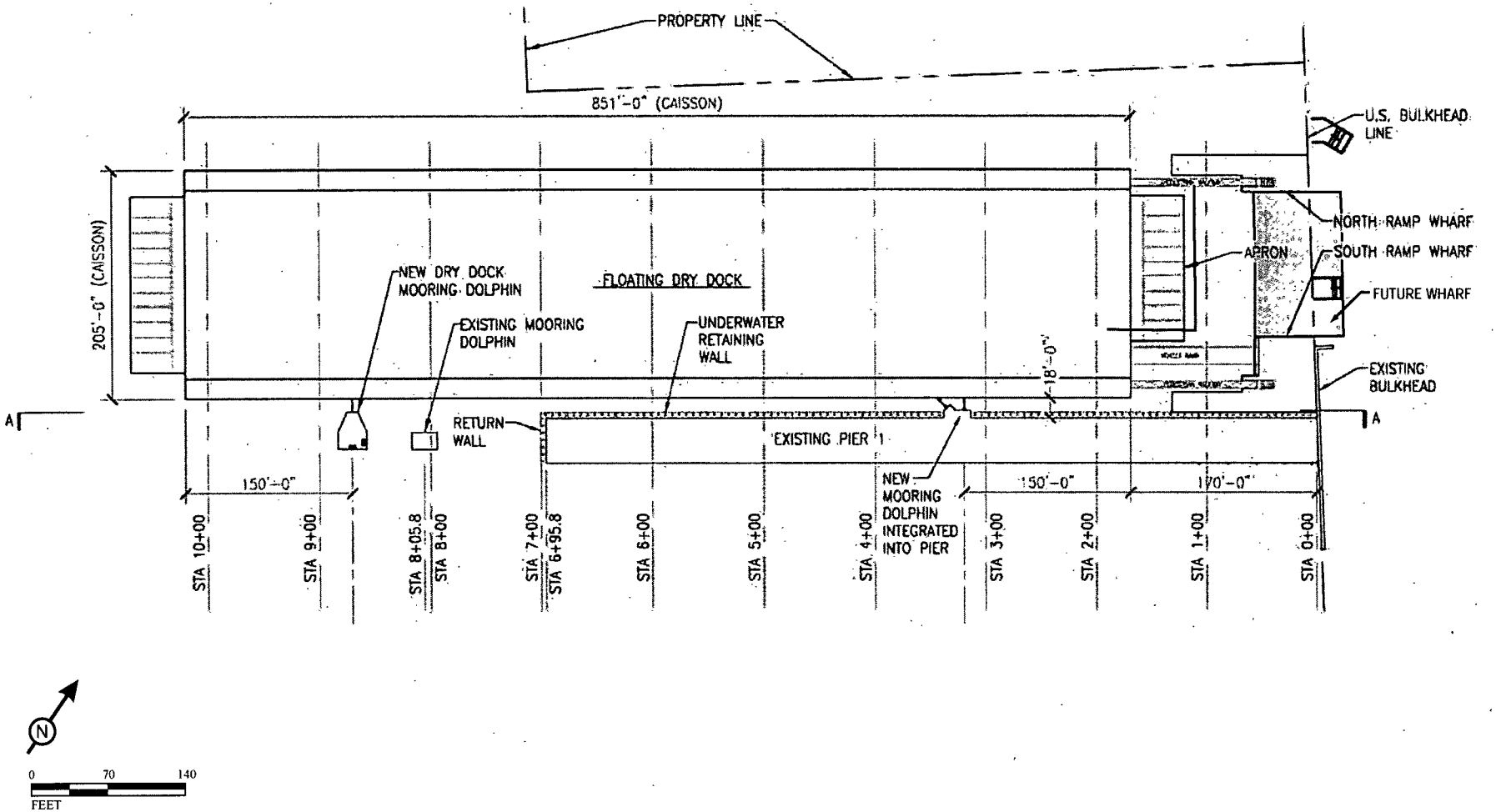

SOURCE: LSA, 2014 (Original file from BAE Systems, 2014)

Conceptual Design - Proposed Drydock Facility
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
2-1

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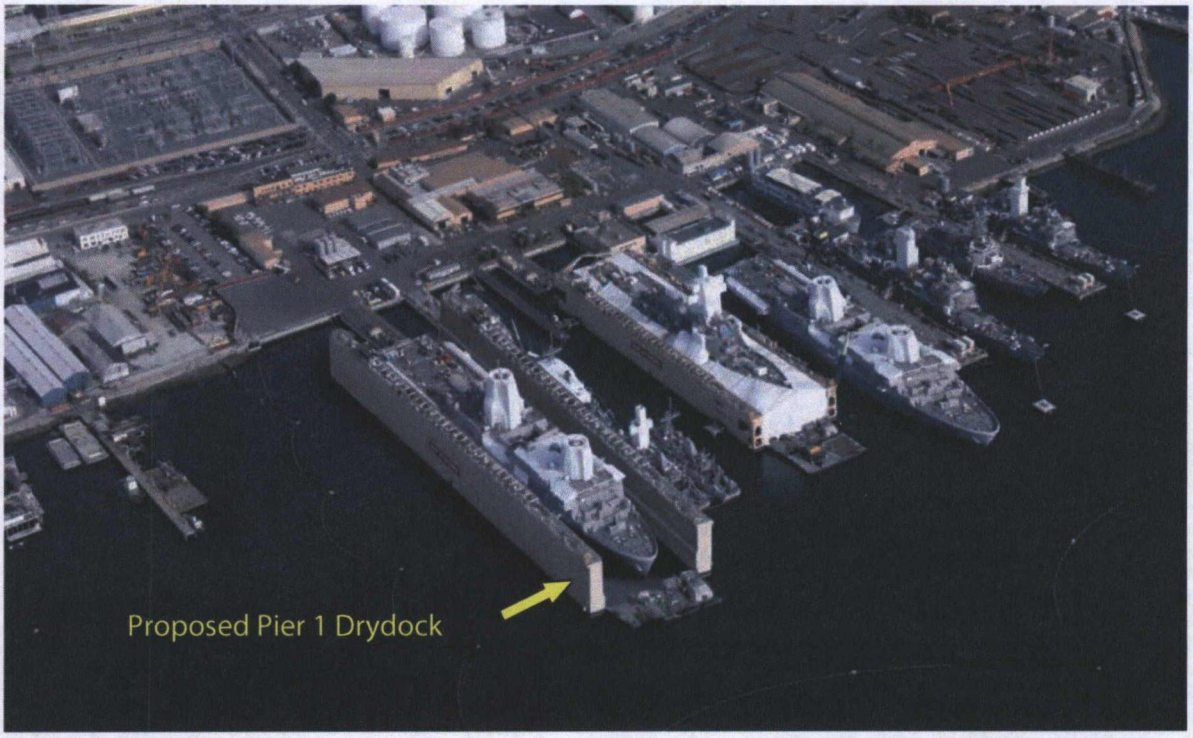
Existing



Post Project

SOURCE: LSA, 2014

Drydock Component (Existing and Proposed)
Pier 1N Dry Dock Project
Hazards and Hazardous Materials Technical Report
BAE Systems San Diego Ship Repair

FIGURE
2-2

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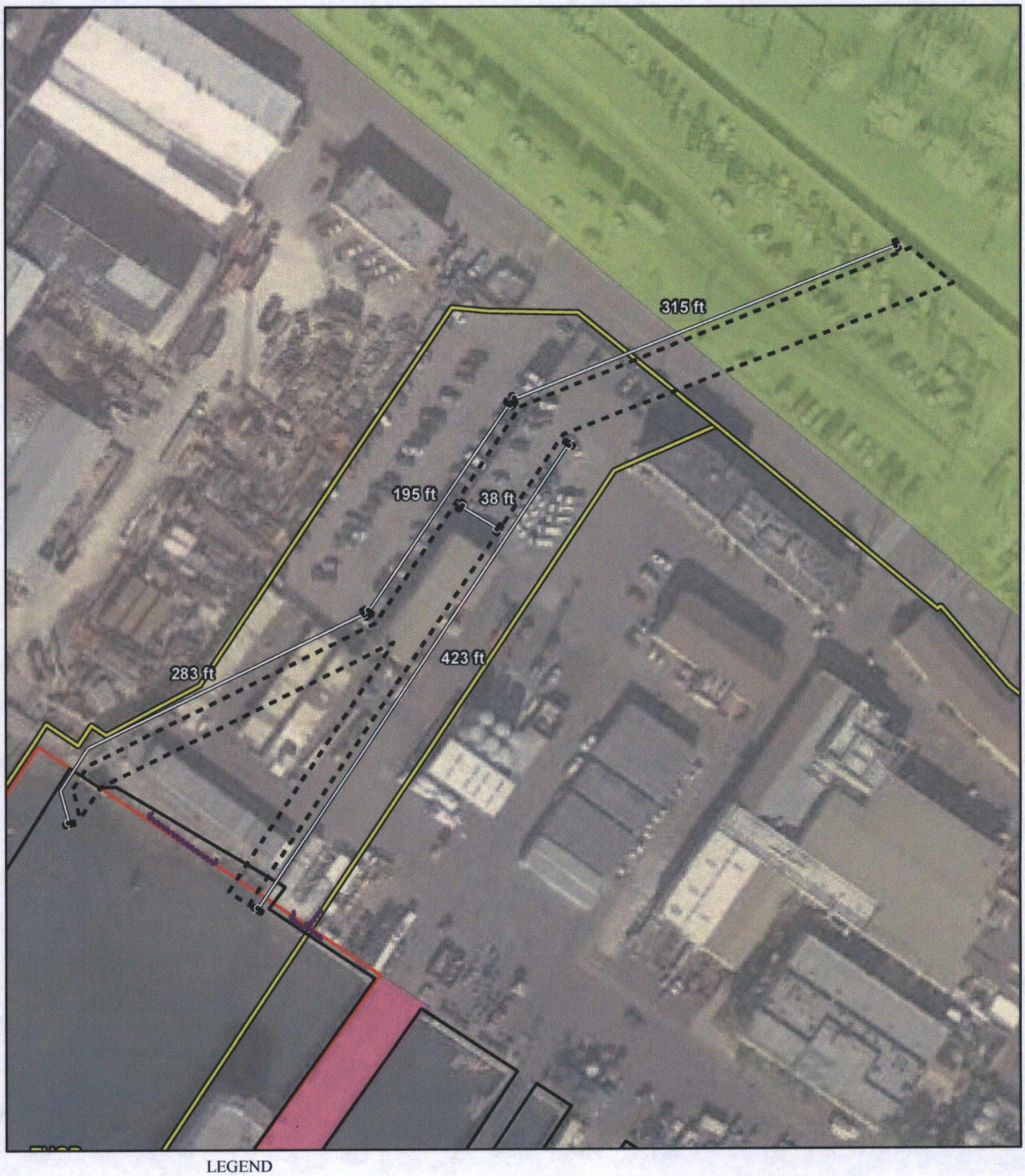

SOURCE: LSA, 2014, (Original file from Google Earth, 2013, and BAE Systems, 6/2014)

Cooling Tunnels
Pier 1N Dry Dock Project
BAE Systems San Diego Ship Repair

FIGURE
2-3

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3.0 REGULATORY SETTING

The management of hazardous materials, worker safety, and safety of the public are regulated by both state and federal laws and regulations. These regulations are intended to mitigate risks related to handling, transport, and disposal of hazardous materials, and to provide a regulatory framework for the Proposed Project. Additionally, these regulations describe the management of potentially hazardous materials during project implementation. The following sections describe the federal and state laws and regulations applicable to the Proposed Project.

3.1 Federal Policies and Regulations

Hazardous Materials Transportation Act

The Hazardous Materials Transportation Act is the statutory basis for the extensive body of regulations aimed at ensuring the safe transport of hazardous materials on water, rail, or highways, through air, or in pipelines. It includes provisions for material classification, packaging, marking, labeling, placarding, and shipping documentation.

Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act (RCRA) was enacted in 1976 as an amendment to the Solid Waste Disposal Act to address large volumes of municipal and industrial solid and hazardous waste being generated nationwide. It addresses hazardous waste generation, handling, transportation, storage, treatment, and disposal. It includes requirements for a system that uses hazardous waste manifests to track the movement of waste from its site of generation to its ultimate disposition. The 1984 amendments to RCRA created a national priority for waste minimization. It establishes national minimum requirements for solid waste disposal sites and practices. It requires states to develop plans for the management of wastes within their jurisdictions. It requires monitoring and containment systems for underground storage tanks that hold hazardous materials. Owners of tanks must demonstrate financial assurance for the cleanup of a potential leaking tank.

Toxic Substances Control Act

The Toxic Substances Control Act (TSCA) provides the United States Environmental Protection Agency (USEPA) with authority to require reporting, recordkeeping, and testing requirements, and restrictions relating to chemical substances and/or mixtures. Certain substances are generally excluded from TSCA, including, among others, food, drugs, cosmetics, and pesticides.

Federal Hazardous and Solid Waste Amendments

The Federal Hazardous and Solid Waste Amendments are the 1984 amendments to RCRA. They specifically target waste minimization and phasing out of land disposal of hazardous waste, and focus on corrective action for releases of hazardous waste. Other mandates include increased oversight and enforcement by the USEPA, more stringent hazardous waste

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management standards and practices, and a comprehensive underground storage tank program.

Emergency Planning and Community Right-To-Know Act

The Emergency Planning and Community Right-to-Know Act (EPCRA) was enacted by Congress as the national legislation on community safety in 1986, under Title III of the Superfund Amendments and Reauthorization Act (SARA). This law was designed to help local communities protect public health, safety, and the environment from chemical hazards. To help implement EPCRA, Congress requires each state to appoint a State Emergency Response Commission. The State Emergency Response Commissions are required to divide their states into Emergency Planning Districts and to name a Local Emergency Planning Committee for each district. Fire fighters, health officials, government and media representatives, community groups, industrial facilities, and emergency managers help make sure that all necessary elements of the planning process are represented. EPCRA provides requirements for emergency release notification, chemical inventory reporting, and toxic release inventories for facilities that handle chemicals.

United States Department of Transportation

The United States Department of Transportation (US DOT) has the regulatory responsibility for the safe transport of hazardous materials by air, rail, highway, and water. The US DOT promulgated a national safety program to minimize the risks to life and property inherent in commercial transportation of hazardous waste. The US DOT also evaluates safety risks, develops and enforces standards for transporting hazardous materials, educates shippers and carriers on proper handling and documentation procedures, investigates hazardous materials incidents and failures, and provides assistance to improve emergency response to incidents.

Coastal Zone Management Act

The Coastal Zone Management Act provides authority for states with federally approved coastal management programs to review federal activities that have a reasonably foreseeable effect on any land use, water use, or natural resource of the coastal zone. Federal agencies provide a consistency determination for proposed federal agency activities, and non-federal applicants for federal license or permit activities provide states with a consistency certification. Federal activities are reviewed for consistency with enforceable policies of state management programs and states either concur with or object to the activity. If a state objects to a federal agency activity, the federal agency may not proceed unless it determines that it is prohibited from full consistency due to requirements of federal law. If a state objects to a federal license or permit activity, the activity may not be federally authorized unless the applicant appeals the state objection to the Secretary of Commerce and the Secretary overrides the state's objection.

For projects involving dredging, dredged disposal, and beneficial uses of dredged material affecting uses or resources within the coastal zone, consultation and coordination with state coastal zone agencies should begin early in the project planning process (USEPA, 2011).

National Dredging Policy

In 1993, the Secretary of Transportation convened an Interagency Workgroup on the Dredging Process. The Interagency Workgroup was charged with investigating and recommending actions to improve the dredging project review process. In 1994, the Interagency Workgroup released its report, *The Dredging Process in the United States: An Action Plan for Improvement* (1994 Interagency Workgroup Report). The 1994 Interagency Workgroup Report contained 18 recommendations and a proposed National Dredging Policy (USEPA, 1994).

On June 22, 1995, the President endorsed the National Dredging Policy and directed federal agencies to implement the report's recommendations. In response to Recommendation 9 of the report, the National Dredging Team (NDT) was established. The NDT serves as a forum for implementation of the National Dredging Policy and the report's recommendations. NDT members and participating agencies:

1. Promote national and regional consistency on dredging issues,
2. Provide a mechanism for conflict resolution, and
3. Provide a forum for information exchanges among federal, state, and local agencies and stakeholders.

In 2001, the NDT sponsored a workshop entitled Dredged Material Management: Issues and Needed Actions for the Next Decade. Workshop participants developed the Action Agenda for the Next Decade (2003 Action Agenda). The 2003 Action Agenda succeeds the 1994 Interagency Report and contains 22 recommendations to help address issues that impact the following areas:

1. Beneficial use of dredged material,
2. Sediment management,
3. Emerging issues, and
4. Strengthening of regional dredging teams.

Rivers and Harbors Act, Section 10

Section 10 of the Rivers and Harbors Act (33 United States Code [USC] 401 et. seq.) requires authorization from the United States Army Corps of Engineers (USACE) for the construction of any structure in or over any navigable water of the U.S., the excavation/dredging or deposition of material in these waters, or any obstruction or alteration in a navigable water. Structure or work outside the limits defined for navigable waters of the U.S. require a Section 10 permit if the structure or work affects the course, location, condition, or capacity of the water body.

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Clean Water Act Section 404

Section 404 of the Clean Water Act (CWA) establishes a program to regulate the discharge of dredged material or fill material into waters of the U.S., including wetlands. Section 404 requires a permit before dredged or fill material may be discharged into waters of the U.S., unless the activity is exempt from Section 404 regulation. The basic premise of the program is that no discharge of dredged or fill material may be permitted if (1) a practicable alternative exists that is less damaging to the aquatic environment, or (2) the nation's waters will be significantly degraded. Proposed activities are regulated through a permit review process. An individual permit is required for potentially significant impacts. Individual permits are reviewed by the USACE, which evaluates applications under a public interest review, as well as the environmental criteria set forth in the CWA Section 404(b)(1) Guidelines, regulations promulgated by USEPA.

Marine Protection, Research, and Sanctuaries Act Section 103

Section 103 of the Marine Protection, Research, and Sanctuaries Act of 1972 (MPRSA), Public Law 92-532, specifies that all proposed operations involving the transportation and dumping of dredged material into ocean waters must be evaluated to determine the potential environmental impact of such activities. This evaluation is performed by the Secretary of the Army, using criteria developed by the Administrator of the USEPA. In accordance with Section 103 of the MPRSA, the USACE is the permitting authority for dredged material, subject to USEPA review. Environmental evaluations must be in accordance with applicable criteria published in Title 40, Code of Federal Regulations (CFR), Parts 220-228 (40 CFR 220-228). Proposed ocean disposal of dredged material also must comply with the permitting and dredging regulations, given that one of the main purposes of Section 103 of the MPRSA is to regulate and limit adverse ecological effects of ocean dumping of dredged material. Consequently, the regulations emphasize evaluative techniques such as bioassays and bioaccumulation testing, which provide relatively direct estimates of the potential for environmental impact.

3.2 State and Local Policies and Regulations

San Diego Regional Water Quality Control Board

The SDRWQCB regulates wastewater discharges to surface waters (rivers, ocean, etc.) and to groundwater (via land). They also regulate storm water discharges from construction, industrial, and municipal activities; discharges from irrigated agriculture; dredge and fill activities; the alteration of federal water body under the CWA Section 401 water quality certification program; and several other activities with practices that could degrade water quality.

San Diego County Air Pollution Control District

The San Diego County Air Pollution Control District strives to protect the public from the harmful effects of air pollution, achieve and maintain air quality standards, foster community involvement, and develop and implement cost-effective programs that meet state and federal mandates, considering environmental and economic impacts.

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City of San Diego, Solid Waste Local Enforcement Agency

The City of San Diego Solid Waste Local Enforcement Agency (LEA) protects public health, safety, and the environment by ensuring safe and proper solid waste management practices through the enforcement of federal, state, and local laws and regulations within the jurisdiction of the City of San Diego.

County of San Diego Department of Environmental Health

The County of San Diego Department of Environmental Health (DEH) implements and enforces local, state, and federal environmental laws. DEH regulates onsite wastewater systems; provides oversight for aboveground and underground storage tanks and cleanup; and regulates medical and hazardous materials and waste.

San Diego Unified Port District

The District is the lead agency under CEQA for the proposed project and will be the certifying body for the EIR. The District will also issue the Coastal Development Permit and other entitlements for land and water areas within their jurisdiction. The San Diego Harbor Police have jurisdiction for enforcing statutes within the Harbors and Navigation Code throughout the five member cities of the District, including San Diego Bay. These regulations cover vessel operation, boat safety, and navigation rules.

Urban Storm Water Mitigation Plan

The District requires all new construction and redevelopment "priority projects" to comply with established Standard Urban Storm Water Mitigation Plan (SUSMP) requirements. If SUSMP requirements apply, for the project application to be considered complete, the project proponent must submit an Urban Storm Water Mitigation Plan (USMP) describing how the project will meet SUSMP requirements. In general, the USMP must clearly convey the process used to identify contaminants of concern, conditions of concern, and best management practices (BMPs) selected for the project and identify BMP maintenance requirements. The USMP must include storm water BMP maintenance provisions in an Operations and Maintenance Plan. The SUSMP requirements apply to the Proposed Project and therefore a USMP will be produced.

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4.0 PROJECT SETTING

BAE Systems currently leases approximately 9.8 acres of land and 16.6 acres of water on District tidelands property on the eastern waterfront of central San Diego Bay (Figure 1-1). BAE Systems (formerly operating as Southwest Marine Shipyard) began occupancy of the site in September 1979. Shipyard facilities operated over the years have included concrete platforms used for steel fabrication, two floating dry docks, five piers, and two marine railways that, together with cranes, enable ships to be launched or repaired. An assortment of wastes have been generated at the facility, including spent abrasives, paint, rust, petroleum products, marine growth, sanitary waste, and general refuse. BAE Systems and former property owners at the site have historically performed ship repair and maintenance for the U.S. Navy and commercial customers (SDRWQCB, 2010b). In addition to area included within the District tidelands lease, BAE Systems also currently subleases an approximately 2-acre landside and 4-acre waterside parcel from the District via aTUOP.[3]

BAE Systems maintains industrial facilities (production shops, offices, and related utilities, and infrastructure) for the maintenance, repair, overhaul, and conversion of large naval and commercial vessels. Waterfront storm water collection tanks are located along the shoreline near the Pier 4 abutment, which is located at the southern end of the facility near Schley Street. Additionally, there are areas of pavement and ramps, as well as buried pipes, a valve vault, utility vaults, three underground sewage lift stations, electrical substations, concrete revetments, and shoreline riprap and rubble.

Three working piers exist at BAE Systems to moor vessels for ship repair activities. These piers (Piers 1, 3 and 4[4]) currently accommodate berthing of large, deep-draft U.S. Navy and (to a lesser extent) commercial vessels, and include a variety of crane and utility services. Currently, BAE Systems acts as the prime contractor for five classes of U.S. Navy vessels: cruisers, destroyers, amphibious transport docks, dock landing ships, and mine countermeasures vessels. The facility is designed to support both pier-side repair (including vessel berthing) and dry dock repair, under multi-ship, multi-option contracts.

4.1 Project Site Sediment Quality

The installation of a new dry dock on the northern side of Pier 1 will require dredging approximately 395,000 cy of San Diego Bay bottom. The purpose of the dredging is to create a deep hole (referred to as a dry dock sump) in the bay bottom into which the floating dry dock can be submerged during ship loading and unloading operations.

The design depth needed to accommodate new dry dock operations is -65 feet MLLW (Figure 4-1). The dry dock dimensions will be approximately 205 feet by 851 feet, plus an apron on each end. While most of the dry dock dredging will be performed east of the U.S. Pierhead Line within Port tidelands jurisdiction, dredging will also take place west of the U.S. Pierhead

[3] At the time of preparation of this Water Quality Technical Report, the Tidelands Use and Occupancy Permit (TUOP) with SDG&E, dated November 1, 2009 (Document No. 55689) expired on October 31, 2014. This parcel is currently leased to BAE Systems by the District via a 5-year TUOP.
[4] The replacement Pier 4 is currently under construction.

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Line within the jurisdiction of the California State Lands Commission and the California Coastal Commission. In addition to Port District approvals, the Proposed Project will also require separate authorizations from these state agencies, as well as the USACE and the SDRWQCB.

Dry dock sump dredging will involve removal of bay sediments considerably deeper than the existing bottom grade. The vertical profile of the dredge footprint includes two different types of sediments: (1) unconsolidated, recently deposited sediments, and (2) dense, native materials that have never been dredged. Approximately 85 percent of the dredged material is native sediment deposits, with a smaller fraction of the dredged material, approximately 15 percent, being unconsolidated bay mud (Figure 4-2).

To identify suitable disposal locations for the approximately 395,000 cy of dry dock sump dredged material, an extensive sediment characterization study was conducted in accordance with USACE and USEPA testing guidelines. The dry dock sump sediment characterization program was performed according to a Sampling and Analysis Plan that was reviewed and approved by the USACE and USEPA (AMEC Environment & Infrastructure, Inc. [AMEC], 2014a). The results of the sediment characterization study are detailed in the report entitled *Draft Pier 1N Dry Dock Sump Dredging Project, Dredged Material Characterization Study, BAE Systems San Diego Ship Repair, San Diego, California* (AMEC, 2014b; Appendix A).

The sediment characterization study was conducted to evaluate the suitability of the dredged material for a range of disposal options, including disposal at the LA-5 Ocean Dredged Material Disposal Site (ODMDS) and/or beneficial reuse for mitigation or beach nourishment. Ocean disposal of dredged materials is regulated under Section 103 of the MPRSA, Title 33 CFR 320-330 and 335-338. Environmental evaluations of dredged materials proposed for ocean disposal must comply with applicable criteria published in Title 40 CFR 220–238. Discharges of fill (e.g., beneficial reuse such as beach nourishment or in-bay fill for mitigation) in waters of the U.S. are subject to Section 404 of the CWA. CWA Section 404 discharges of dredge material also require a CWA Section 401 WQC from the SDRWQCB.

The suitability of dredged material for unconfined aquatic disposal is determined by the USACE and USEPA on the basis of review of the multi-tiered sediment testing results. Any sediment deemed unsuitable for aquatic disposal by the USACE/USEPA will require placement in a designated upland landfill. The practice of dredging with upland landfill disposal of sediments has undergone considerable CEQA review and permitting for several recently completed and ongoing projects at the BAE Systems San Diego Ship Repair facility and other locations. Recent upland projects include the "Pride of San Diego" (POSD) Dry Dock Sump Maintenance Dredging Project and the Pier 4 Replacement Project. Ongoing upland landfill disposal activities are being implemented for the San Diego Shipyard Sediment Remediation Project. The dredging, treatment, transfer, and transportation methods employed for landfill disposal of contaminated dredged materials are well documented and are described in detail in the *San Diego Shipyard Sediment Remediation Project Remedial Action Plan* (RAP) (Anchor QEA, 2012).

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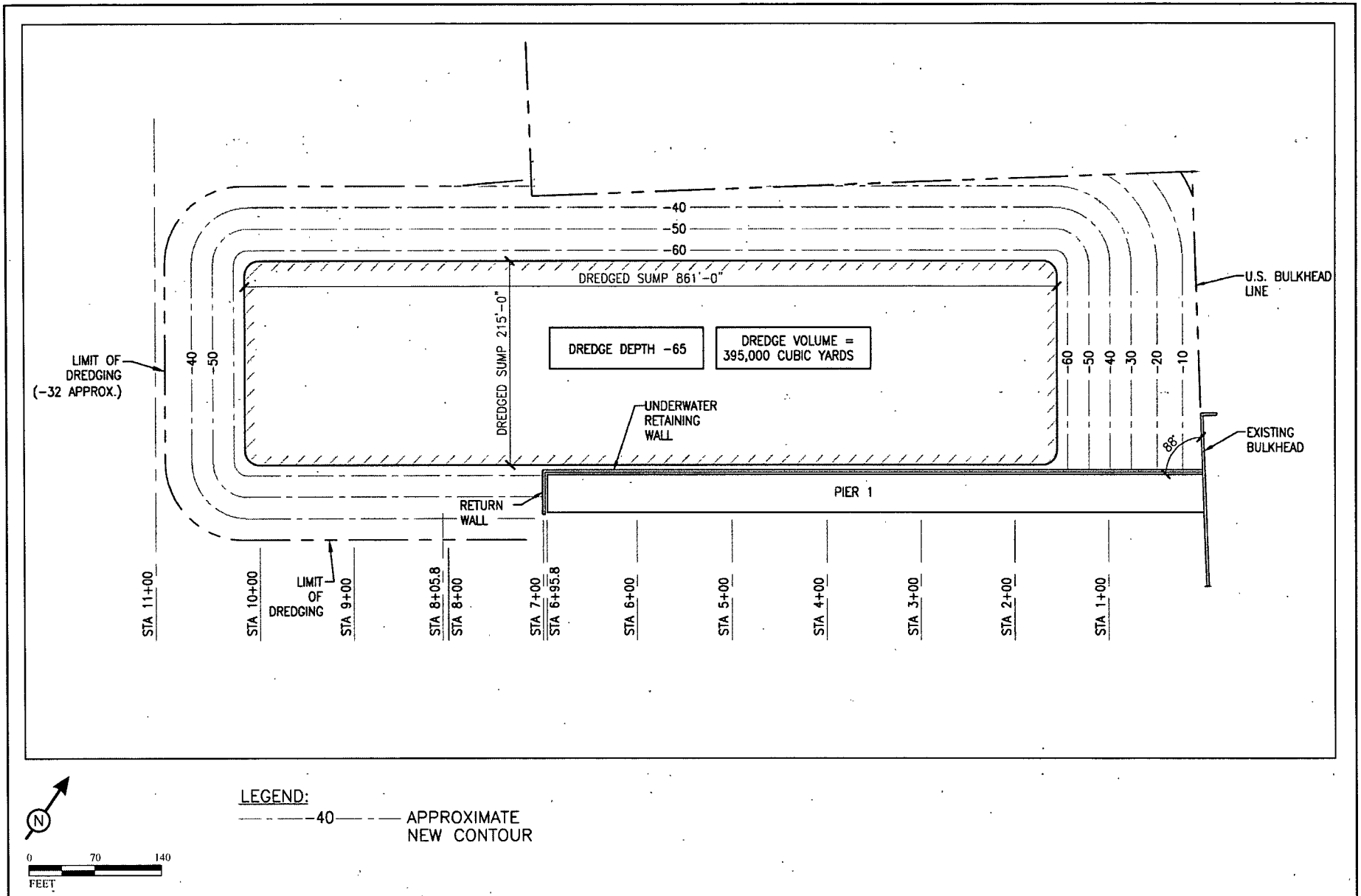

SOURCE: LSA, 2014 (Original file from BAE Systems, 2014)

Conceptual Design – Proposed Dredging Depths
Pier 1N Dry Dock Project
Hazards and Hazardous Materials Technical Report
BAE Systems San Diego Ship Repair

FIGURE
4-1

Graphics/Aquatics/BAE/CoceptDesignv2.ai

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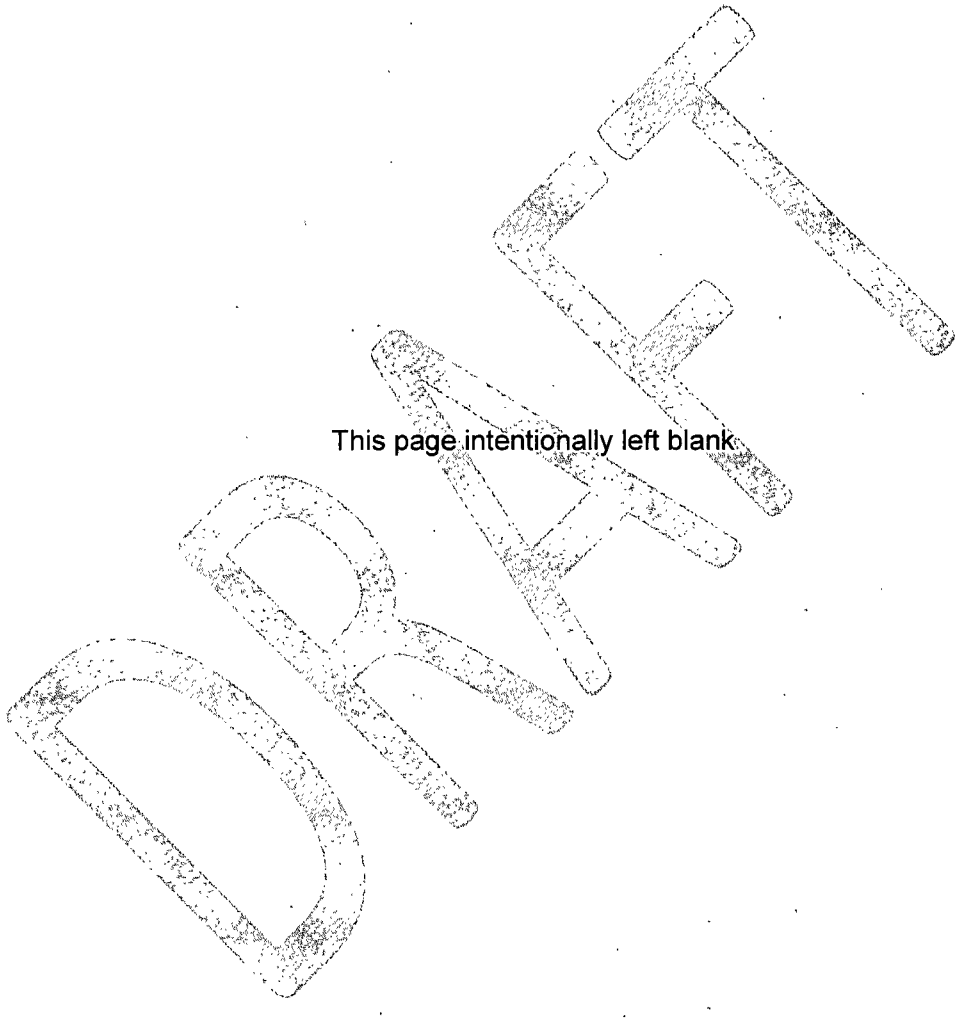

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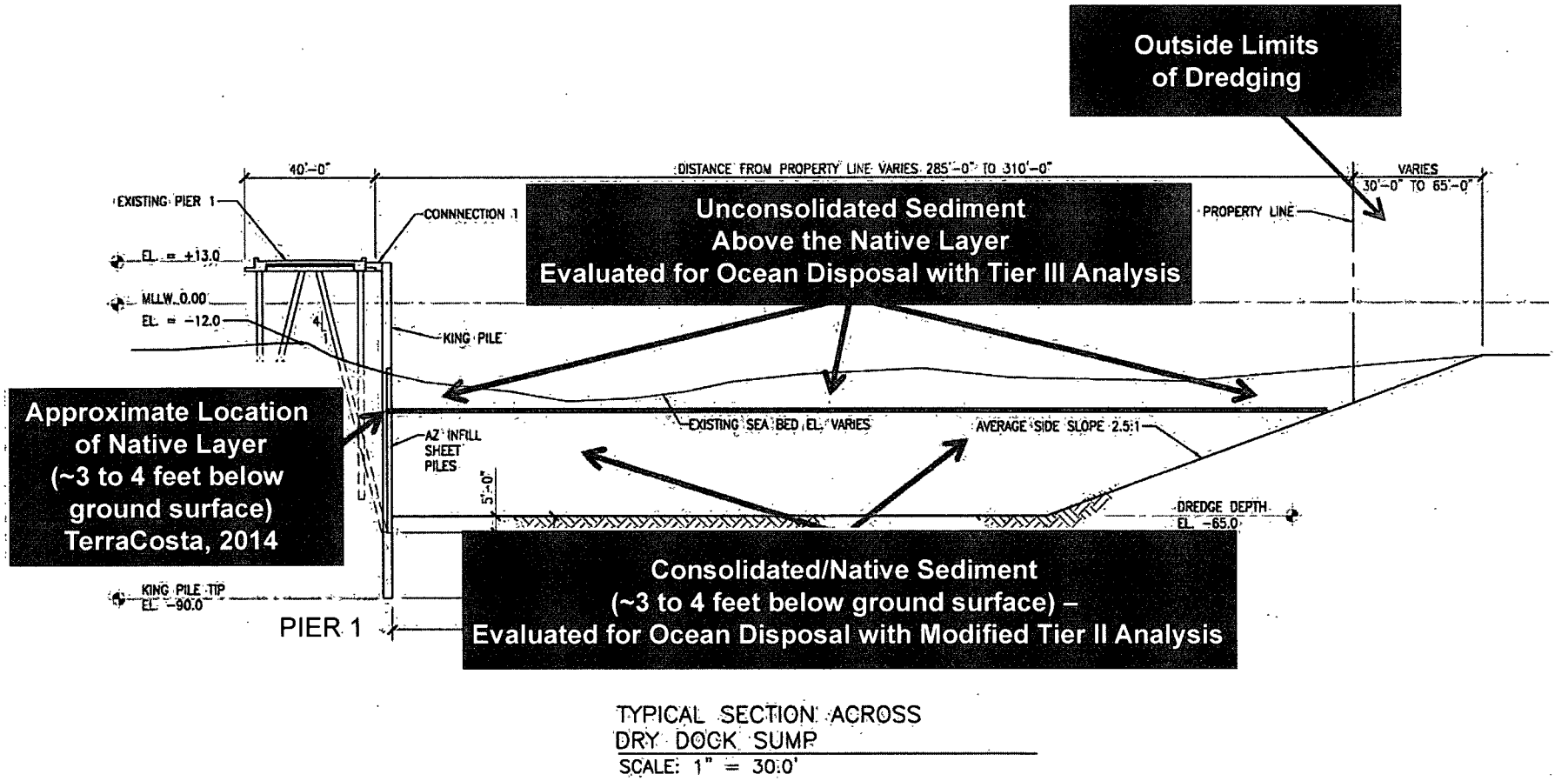

TYPICAL SECTION ACROSS
DRY DOCK SUMP
SCALE: 1" = 30:0'

Note: Cross section view point is from bulkhead. Pier 1 is on the left side of the page.

SOURCE: Triton Engineers, 2014

Disposal Consideration Cross-Section
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
4-2

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4.1.1 Dredged Material Study Results

BAE Systems' testing program for the Proposed Project included collection of core samples in May 2014 at numerous locations throughout the unconsolidated, upper layers of the dry dock sump footprint. The sediment core samples were subjected to a battery of tests in accordance with the guidelines of the USEPA and the USACE, as outlined in (1) *Evaluation of Dredged Material Proposed for Ocean Disposal* (referred to as the "Green Book") (USEPA/USACE, 1991), and (2) *Evaluation of Dredged Materials Proposed for Discharge in Waters of the United States*, EPA-823-B-98-004 (Inland Testing Manual [ITM]) (USEPA/USACE, 1998).

The sediment testing program included the following analyses: (1) physical analyses to determine the grain size of the dredged materials (e.g., percentage of sand, percentage of fines); (2) chemical analyses for a suite of contaminants of concern, including heavy metals, petroleum hydrocarbons, chlorinated and pyrethroid pesticides, polychlorinated biphenyls, organotin compounds, polycyclic aromatic and petroleum hydrocarbons, and others; (3) sediment and water column toxicity analyses using sensitive marine organisms as indicators for acute and chronic toxicity (e.g., amphipods, bivalve larvae); and (4) long-term sediment exposures using worms and clams to assess the potential for organisms to bioaccummulate chemicals into their tissues.

Sediment samples found deeper in the footprint (i.e., native sediments) were collected using soil-boring equipment (a hollow-stem auger). The native sediments within the dredge footprint were collected during the geotechnical evaluation performed by TerraCosta Consulting Group in June 2014. A soil-boring device was needed to penetrate deep into the dense, consolidated native sediments found below the upper unconsolidated surface sediments. Because these deeper sediments have never been exposed to sources of contamination, the sediment testing regime for these samples was limited to physical and chemical analyses.

4.1.2 Dredged Material Study Results – Surface Sediments

Dredged material disposal location suitability is determined by comparing the chemical levels, toxicity, and bioaccumulation results from the project site sediment with guideline values (e.g., effects range-low [ERLs] and effects range-median [ERMs]) and statistical comparisons of the test results to reference sediment tests).

Results of the testing conducted on the unconsolidated dry dock sump sediment showed the following:

1. Comparison of the sediment chemistry results for sediments collected in the dry dock sump footprint with the ERL/ERM guideline values and the reference sediment results indicates, in general, that most of the test sediments collected within the dredge footprints contain low concentrations of chemical contaminants.
2. Results of the water column and sediment toxicity tests showed no significant effects on test organisms exposed to dredged material samples.

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3. No significant bioaccumulation of chemicals was observed in clams or worms exposed to dry dock sump sediments.

4.1.3 Dredged Material Study Results – Native Sediments

Analysis of the native layer indicated little to no anthropogenic influence in the sediment chemistry below the unconsolidated-native sediment interface. This finding verifies that the native material is clean, native sediment that is free of chemical contaminants.

4.1.4 Dredged Material Study Results – Disposal Suitability Determination

Based upon low chemical levels, and lack of significant toxicity and bioaccumulation, it appears that the sediments within the dry dock footprint meet the limiting permissible concentration for unconfined aquatic disposal as outlined in the Ocean Dumping Law and CWA Section 404. The ultimate decision regarding disposal site suitability is made by the USACE in consultation with the USEPA. The agencies' determination of ocean disposal suitability will likely be finalized in November 2014[5].

Evaluation of beneficial reuse options for the Proposed Project dredged materials deemed suitable for unconfined aquatic disposal is being conducted by Merkel & Associates for BAE Systems. The final beneficial reuse option(s) will require approval by the USACE/USEPA and be permitted by all appropriate agencies prior to placement.

4.1.5 Dredged Material Study – Potential Additional Testing

As mentioned previously, the San Diego Shipyard Sediment Remediation Project (i.e., the CAO dredging project) will be completed before any of the dredging activities associated with the Proposed Project are initiated. For the CAO dredging project to be considered complete, post-dredge confirmation sediment testing is required. The confirmation testing will be conducted to verify that contaminant levels (i.e., concentration levels) in the post-dredge surface sediments meet the cleanup objectives contained in the RAP for all primary contaminants of concern.

Once the San Diego Shipyard Sediment Remediation Project CAO cleanup dredging has been deemed complete by the SDRWQCB, any remaining unconsolidated sediment in the CAO area of the Proposed Project footprint considered for unconfined aquatic disposal will need to be tested in accordance with USACE/USEPA guidance (i.e., Green Book and ITM) to determine disposal site suitability. To date, none of the unconsolidated surface sediments within the CAO

[5] In an e-mail dated November 17, 2014, from Robert Smith of the USACE to Shaun Halvax of BAE Systems SDSR, the USACE and USEPA provided their preliminary determination on the suitability of the Proposed Project dredged material for unconfined aquatic disposal. The USEPA concluded, "Overall, the proposed sediments from composite areas A and B appear to be suitable for unconfined aquatic disposal at LA-5 or other beneficial reuse options; there appear to be sandy sediments available from this project, particularly in the consolidated native sediments below the unconsolidated muddy layer." The USACE concurred by stating, "The Corps concurs with EPA in reference to the chemical contaminant concentrations being below the ERL and ERM screening levels under Item 3. The submitted bioassays also indicate the dredged material is suitable for unconfined aquatic disposal per Item 4. below." The agencies also requested additional information regarding beneficial reuse options for the material.

area have been tested for unconfined aquatic disposal suitability. The deeper native sediments in the CAO area, however, have been chemically tested and appear to meet the criteria for placement at LA-5.

Following completion of the CAO dredging and subsequent closure of the site, it is expected that any remaining residual unconsolidated sediments that are characterized will pass all required Green Book tests and be deemed suitable for unconfined aquatic disposal at the LA-5 ODMDS. However, if any portion of the dredged material does not meet Ocean Dumping Law criteria, the unsuitable sediment would need to be placed in an upland landfill. In the event that upland disposal is required, this activity would be conducted according to the standards and practices that were previously employed by BAE Systems for other CEQA-certified and agency-permitted projects (e.g. Pier 4 Replacement Project).

4.2 Existing Operations

BAE Systems currently has one floating dry dock—the "Pride of San Diego," which has been operating at the facility since 1984. BAE Systems formerly operated a second dry dock at the facility (the "Diligence"), but in 2010 it was sold and relocated to the South Bay. In 2013 the dry dock was removed from San Diego Bay. Over the past five years, BAE Systems has averaged four dry dockings per year.

The proposed location of the new dry dock eliminates one large vessel wet berth at Pier 1N (Figure 4-3). Similar to the existing dry dock, the new dry dock at Pier 1N will be used to conduct repair and maintenance activity that cannot normally be conducted while the vessel is submerged. These activities generally include exterior hull repair, preservation (abrasive blasting and/or hydro-blasting and painting), shaft repair, propeller and rudder repair, and repair/replacement of valves and fittings below the waterline. Ships are docked by lowering (submerging) and then raising the dry dock by means of integral ballast tanks, which take in and discharge seawater. Once the dry dock is lowered, a vessel is positioned within the dock. The dry dock is then raised, and the ship is lifted out of the water.

Wastes generated during ship repair in dry dock may include spent abrasives, paint, rust, petroleum products, marine growth, and general refuse, all of which are contained and then transferred to shore facilities for disposal. Environmental protection related to dry dock operations includes complete encapsulation of the vessel to prevent fugitive particulate emissions, storm water collection, and zero discharge of industrial wastewater. In addition, BAE Systems enforces a stringent Best Management Practices (BMP) Manual (BAE Systems, 2013) and detailed standard operating procedures (SOPs) for its dry dock operations and hazardous material handling activities at the shipyard.

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4.3 Intake/Discharge Cooling Tunnels

The 2-acre TUOP parcel currently has two subsurface intake/discharge water tunnels that were installed by San Diego Gas and Electric (SDG&E) and previously used for intake/discharge of cooling water for the SDG&E Silvergate Power Plant.[6] The intake/discharge tunnels consist of two tunnels for intake water and two tunnels for outbound water. San Diego Bay water was used as once-through, non-contact cooling water in the power plant. Each of the four tunnels is approximately 8 feet by 8 feet. Each tunnel is approximately 700 feet long with an 8-foot square opening. As depicted in Figure 2-3, the portions of the tunnels within the District's jurisdiction stretch from the southern curb of Belt Street to San Diego Bay and consist of approximately 490 feet of intake tunnels and approximately 450 feet of discharge tunnels. Outside the District's jurisdiction, the tunnels traverse for an additional 250 feet north of the existing leasehold beginning at East Belt Street, crossing underneath Burlington Northern Santa Fe Railway property, and extending into the existing SDG&E substation north of the Proposed Project site. The Silvergate power plant was removed in 2007 and the intake/discharge tunnels are no longer in operation. The removal of the existing intake/discharge tunnels within the TUOP parcel could occur during the construction of the proposed dry dock or at a future time. Figure 4-3 illustrates the conditions of the entrance to the intake/discharge water tunnels.

Subsurface Investigations

In December 2010, Ninyo & Moore performed a subsurface investigation that included conducting cone penetration testing (CPT) and Ultraviolet Optical Screening Tool (UVOST) analyses at 38 locations to depths ranging from 40 to 48 feet below ground surface (bgs); advancing 28 soil borings; and installing 15 temporary wells to collect groundwater samples (Ninyo & Moore, 2011). Ninyo & Moore also collected sediment samples from the cooling tunnels. Based on visual observation of the sediment extracted from the two cooling water tunnels, the sediment generally consisted of silty sands to sandy silts. Sediment samples from the discharge and intake tunnels had a slight hydrocarbon odor, and the samples were generally gray to black in color. The study found concentrations of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), PAHs, PCBs, and metals above the laboratory detection limits in soil, groundwater, and the cooling tunnel sediment samples.

An additional Phase I Environmental Site Assessment was performed by Ninyo & Moore for the District in 2014 (Ninyo & Moore, 2014). Based on the findings of the draft Phase I ESA, there is a moderate to high probability that hazardous materials or wastes are present at the site.

In addition, the cooling tunnels currently have an opening to the San Diego Bay that would be removed following tunnel removal. This change would mean there is no longer a connection to San Diego Bay.

[6] The SDG&E Silvergate Power Plant ceased operations in 1984. In 2007, SDG&E completed the abatement, decontamination, and dismantlement of all interior equipment and demolition of the structure. (Cleveland Wrecking Company, http://clevelandwrecking.com/sdge-silvergate-power-2/, website accessed July 9, 2014.) However, the SDG&E cooling tunnels associated with the Silvergate Power Plant remain, but are required to be removed under existing agreements between the District and SDG&E.

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Existing Pier 1.

SOURCE: LSA, 2014

amec

Graphics/Aquatics/BAE/ExistingConditionsv2.ai

Existing Conditions at Pier 1N
Pier 1N Dry Dock Project
Hazards and Hazardous Materials Technical Report
BAE Systems San Diego Ship Repair

FIGURE
4-3

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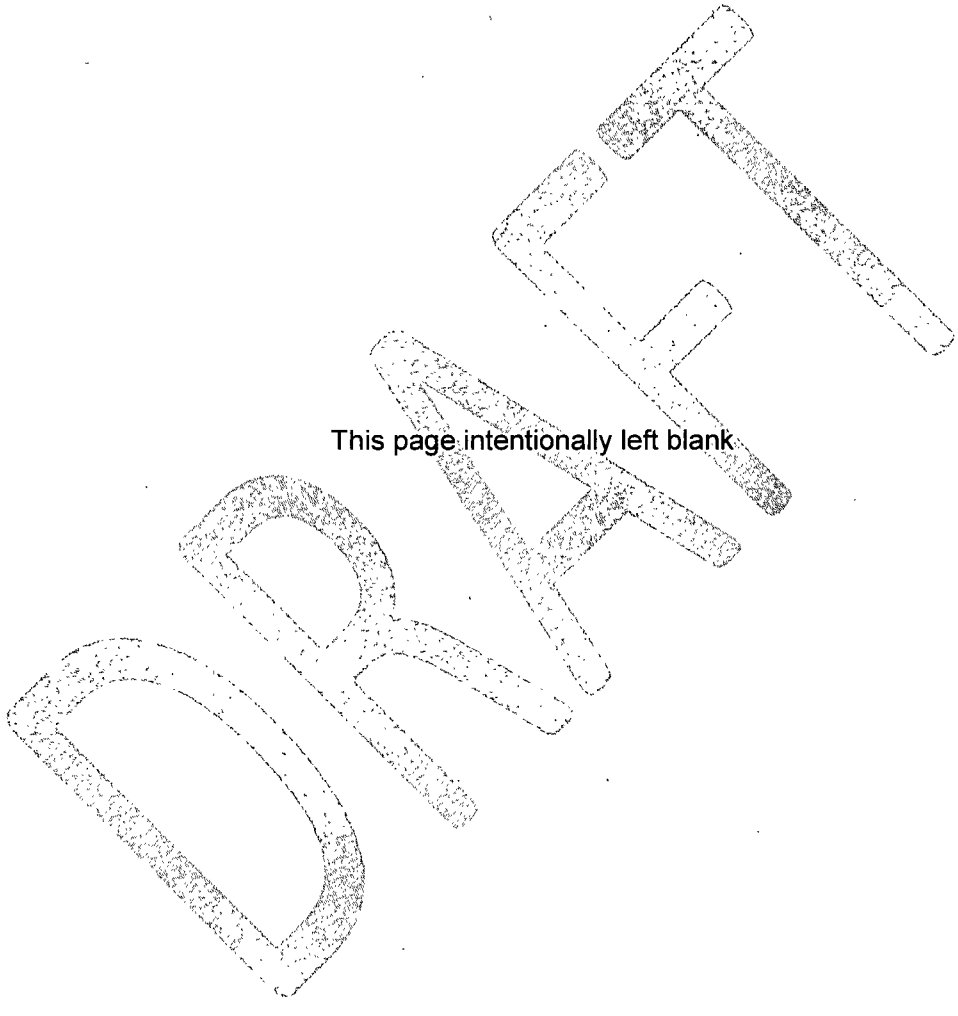

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Tunnel Removal and BAE Systems Operations

The removal of the cooling tunnels has the potential to adversely affect BAE Systems operations, but measures can be implemented to minimize the disruption and to assure ongoing operations. The southern ramp (for vehicles) will not impede removal of the tunnels and the intermediary wharf structure and proposed north ramp (for utilities and pedestrians) will not be installed until after the tunnels are removed. In addition, the current TUOP acknowledges that:

> *"Under no circumstances shall Tenant undertake any use of the Premises that increases the difficulty or cost of Existing Improvement Removal. Tenant shall be responsible for all costs and expenses associated with breach of this provision. Notwithstanding the above, and at no additional cost to the District, the District and BAE Systems shall work collaboratively to minimize the impact to BAE Systems operations as a result of the proposed demolition work."*

To minimize impacts, operations can be directed on the southern side portion of the 2.0 TUOP parcel, as well as the 9.8-acre land parcel leased to BAE Systems.

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5.0 ENVIRONMENTAL ANALYSIS

This section describes the potentially significant impacts associated with installing and operating a new dry dock on the northern side of Pier 1. Mitigation measures to reduce any impacts found to be potentially significant in this hazards and hazardous materials analysis are described in Section 6.0.

5.1 Dry Dock Installation

The activities that may create hazards and hazardous materials during the construction and dry dock installation component of the Proposed Project include:

- Dredging and dredged material disposal activities;
- Sheet pile and king pile installation;
- Installation of the dry dock access ramp;
- Activities related to mooring dolphin demolition and installation;
- Installation of the electrical and mechanical utilities needed to service the new dry dock; and
- Activities associated with deployment of the new dry dock, including onsite assembly work.

The proposed hazards and hazardous materials associated with these activities are discussed below.

5.1.1 Dredging and Dredged Material Disposal

Potential environmental impacts associated with dredging and dredged material disposal are described in this section. Two dredged material disposal options are being considered for the Proposed Project: (1) unconfined aquatic disposal, and (2) upland disposal in a landfill.

To date, none of the sediment tested as part of the dry dock sump dredged material characterization study has been deemed unsuitable for unconfined aquatic disposal (i.e., requiring upland disposal); however, a final regulatory "suitable for unconfined aquatic disposal" (SUAD) determination is pending. As mentioned above, a portion of the dredge footprint has not yet been evaluated for unconfined aquatic disposal. It is possible that some of the sediment in the dredge footprint may require upland disposal. Consequently, the potential impacts associated with both aquatic and upland disposal are evaluated below.

Dredging – Aquatic Disposal

As discussed in Section 4.1 (Project Site Sediment Quality), a sediment characterization study was conducted in accordance with federal testing guidelines to determine the physical characteristics and chemical levels in the sediments within the Proposed Project dredge footprint. Specifically, the sediment was evaluated to determine its SUAD in accordance with the National Dredging Policy, the Ocean Dumping Law, and the CWA.

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The sediment testing results show that the dry dock footprint dredged material is substantially free of chemical contamination, toxicity, and bioaccumulation potential. The test results are currently being evaluated by the USACE and USEPA to determine if they meet the Ocean Dumping Law and CWA Section 404 criteria for unconfined aquatic disposal. A SUAD determination by the USACE and USEPA would indicate that the Proposed Project dredged material would not pose a threat to the environment due to elevated contaminant levels at either the dredging site or the selected disposal site.

If a SUAD determination is made at this time, it will apply only to the unconsolidated surface sediments within the dredge footprint west of the Shipyard Sediment Remediation Project cleanup area as well as all the clean native materials deeper in the dredge footprint that span the Proposed Project footprint. As previously discussed, the Shipyard Sediment Remediation Project sediment removal will be completed prior to implementation of the Proposed Project. Any remaining sediments following remedial activities will need to undergo further analyses.

Potential Impacts:

Because the Proposed Project dredged materials have been shown to be substantially free of chemical contaminants and toxicity, the primary impact associated with dredging these materials is sediment resuspension. Dredging activities could cause sediments to enter the water column, which may cause increased turbidity. Increased turbidity (suspended and settleable solids) is deleterious, or harmful, to benthic organisms and may cause the formation of anaerobic conditions, which can clog fish gills and interfere with respiration in aquatic fauna. It also can screen out light, hindering photosynthesis and normal aquatic plant growth and development (SDRWQCB, 1994). Dredging activities that could cause resuspension of sediments include:

- Over-filling of the dredge bucket during the sediment removal operations
- Debris preventing the dredge bucket from closing completely
- Barge repositioning (vessel propeller wash)
- Silt curtain placement
- Damage of silt curtain during dredging
- Spillage of sediment, resulting from overloading the material barge
- Contact with sediment on or around the material barge during loading
- Cable snap of the loading bucket during loading procedures
- Shear pin breakage, allowing the bucket to open prematurely during loading procedures
- Material barge or tugboat collision with another vessel

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Dredging – Upland Disposal

All of the sediment tested to date according federal guidelines and evaluated by the USACE and USEPA has been deemed suitable for unconfined aquatic disposal. As discussed in Section 4.1.5 (Dredged Material Study – Potential Additional Testing), however, a portion of the sediment within the project footprint still requires disposal suitability testing. This untested sediment is composed of any residual unconfined material that remains following completion of CAO cleanup dredging activities. As discussed in the Project Description under separate cover, it is assumed that a small portion of the project dredged material may require upland disposal. An upland disposal contingency factor of approximately 2,500 to 10,000 cubic yards (3,500 to 14,000 tons) of dredged material has been identified for purposes of this analysis.

Any sediment not approved for ocean disposal or beneficial reuse will be disposed of outside of the tidelands (upland) at an appropriately permitted landfill. Any sediment designated for upland disposal will be tested, waste classified, and approved by the landfill operator for landfill disposal. Should upland disposal become necessary, the proposed disposal site will be Otay Landfill located at 1700 Maxwell Road in Chula Vista, California. Alternative landfills may also be considered.

In the unlikely event that any portion of the dredged materials is classified as hazardous waste, those materials will require transport to a hazardous waste disposal facility (a Class I facility). None of the previous dredging projects conducted at BAE Systems that required landfill disposal (e.g., the San Diego Shipyard Sediment Remediation Project; the POSD Dry Dock Sump Maintenance Dredging Project; Pier 4 Replacement Project dredging) uncovered any sediments that were classified as hazardous wastes. All sediments from these projects meet Otay Landfill's waste classification requirements to be disposed of as non-hazardous solid waste.

Upland disposal of dredged material will require dredging, processing onsite (i.e., dewatering and thickening), transfer to a truck, and transport to and disposal at the Otay Landfill. Assuming a carrying capacity of 23 tons per truckload, approximately 110 to 610 truckloads will be required for upland disposal of these dredged materials. The disposal process, including truck routes, will be conducted using the same transportation logistics used for recent landfill disposal projects conducted by BAE Systems.

It is estimated that the dredging operation, which may be performed to remove the 2,500 to 10,000 cy of sediment requiring upland disposal, will take approximately 1 month to complete. Dredging equipment will include the dredge crane barge, two dredge barges (scows), a large excavator for mixing cement (i.e., thickening) into the dredge material within the dredge scow and for offloading dredged material into trucks, pumps and hoses to capture supernatant water from the dump scow that can be transferred on-shore for disposal, and other miscellaneous equipment.

During upland disposal days (anticipated to be 17 days during the month), approximately 30 to 40 trucks per day will be required to haul off the treated dredged sediments. In addition, approximately 10 to 35 cement trucks will be required to dry all of the upland dredged material. The cement trucks will arrive on approximately 5 to 6 separate days during this period. Approximately 10 workers will be onsite each day that this dredging is being conducted.

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The sediment will be sampled by the removal contractor for landfill profiling in accordance with the landfill's acceptance criteria. . Sediment samples will be collected by the removal contractor from the containment barge. Once it is determined that the sediment has met the analytical and water content requirements of the disposal facility, the material will be certified for disposal (by the landfill operator), manifested, loaded into on-road trucks (typically using a large-wheeled front-end loader), weighed to document compliance with California Department of Transportation (Cal-DOT) regulations, transported, and deposited at the selected disposal facility.

Potential Impacts:

Potential hazards and hazardous materials impacts associated with the dredging and upland landfill disposal of dredged materials include:

- Resuspension of contaminated sediments during dredging activities (same as those listed above under Dredging – Aquatic Disposal)
- Overfilling of the dump scow, causing sediment and supernatant water (i.e., water that rises to the surface in the dredge barge during loading operations) to overflow the sides
- Leaks in the supernatant water handling system, causing releases of contaminated water to the bay
- Accidental spills of 1) the cement used as a thickening agent during on-scow treatment of the upland disposal sediments or 2) the resultant wet slurry mixture
- Spilling of upland disposal sediments during the transfer process from the dump barge to land for removal
- Discharge of spilled materials back into the bay during storm events

Dredging Equipment Operations

In addition to dredging, hazards and hazardous materials are also associated with dredging equipment (e.g., clamshell dredge and barge, dump scows, tender boats, cement trucks, and dump trucks) that will be used during construction. In particular, these pieces of equipment will use hazardous materials such as fuels and lubricants.

The potential for petroleum product leaks or spills is low, but the potential for long-term impacts is moderate to high if a leak or spill occurs. Use of dredging equipment and the support vessel for construction activities may also result in potentially hazardous conditions in the project area as well as in the vicinity of sediment dump barges as the vessels move between the dredging site and the disposal location(s).

Potential Impacts:

Potential impacts associated with dredging equipment operations include:

- Accidental oil or fuel spills that could occur during the dredging operations and impair and/or degrade water quality in the bay

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- Navigation hazards associated with dredging equipment, tugs, dump scows, support vessels, and silt curtains

5.1.2 In-water Construction Activities

In addition to dredging-related activities associated with installation of the new dry dock, the Proposed Project will also include additional in-water construction activities. These include:

Sheet pile and king pile installation – To prevent undermining of the existing Pier 1, the Proposed Project will include an underwater wall and cantilevered king pile installation. These underwater improvements will allow for dredging adjacent to the pier without adversely impacting the strength and integrity of the pier.

Access ramp installation – Two ramp wharfs (north and south) designed for accessing the dry dock are proposed adjacent to and westward of the bulkhead and will extend from approximately the current bulkhead line to 125 feet into San Diego Bay. The ramp wharfs will be designed to support heavy vehicle and equipment loads and will consist of a reinforced concrete deck supported by precast concrete piles anchored along the shoreline.

Intermediary wharf structure - Material delivery staging area for the drydock must be with reach of cranes. An intermediary wharf structure is planned for installation between the two access ramps. The intermediary wharf will be constructed in similar fashion as the ramps and abut the ramps to the north and south.

Mooring dolphin expansion and replacement – To accommodate the mooring of the proposed dry dock, one new and one retrofitted mooring dolphin are proposed to be constructed approximately 344 feet and 890 feet offshore (west) of the U.S. Bulkhead Line. The dolphins are necessary to provide a fixed mooring structure to secure the dry dock. Additionally, the current Pier 1 mooring dolphin would be expanded.

Dry dock assembly – Installation of a new floating dry dock approximately 205 feet in width and 851 feet in length (174,455 square feet total) plus aprons (approximately 16,165 square feet total) attached to the dry dock on each end is proposed. It is anticipated that most of the dry dock will be assembled offsite. However, there will likely be some additional dry dock assembly work occurring once the dry dock has been towed to the shipyard.

Potential Impacts:

Potential environmental impacts that may result from these in-water construction activities include:

- Resuspension of sediments during pile removal and installation activities
- Routine use, transport, or disposal of potentially hazardous materials (e.g., fuels, oils, lubricants) by construction equipment

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- Spills of fuels or oils during construction activities and refueling operations
- Noise associated with pile-driving activities

5.1.3 Land-side Construction Activities

A small portion of the construction activities associated with installation of the new dry dock will occur on land. Electrical and mechanical utilities to support the dry dock will need to be installed. These utilities will be similar to the types and capacities currently utilized within the existing shipyard. The proposed electrical utilities include a 12,000-volt, 500-amp feeder cable to the proposed new wharf; new load interrupt switches for the distribution of the 12,000-volt circuit; shore and pier 480-volt and 208/110-volt distribution systems, including 400-amp shore power mounds on the shore at two locations for barges and for ship repair operations; convenience receptacles on shore and on the pier and power to new infrastructure where needed (sewage lift station, storm water collection systems, etc.) and shore and pier lighting, including pole lights and embedded light fixtures in the wharf structure that will be located on the shore and wharf; and shore and wharf data, telephone, and television systems for use by vessels in dry dock.

Potential Impacts:

The potential impacts associated with utility installation include:

- Discovery of contaminated soils and/or groundwater during trenching operations
- Routine use, transport, or disposal of potentially hazardous materials (e.g., fuels, oils, lubricants) by construction equipment
- Spills of fuels or oils during construction activities

5.2 New Dry Dock Operations

Operational activities currently conducted at BAE Systems facility include non-nuclear ship repair, modernization, conversion, and overhaul for government and commercial customers. Operations in the new dry dock will be similar to existing operational conditions at the current Pier 1N wet berth, but with the addition of the new dry dock. The new dry dock will be used to conduct repair and maintenance activity that cannot normally be conducted while the vessel is afloat. In a typical year, it is anticipated that two DDG-class vessels, one LPD-class vessel, one CG-class vessel, and one LCS-class vessel will utilize the dry dock.

Operational activities in the new dry dock (ship loading and unloading, ship repair and maintenance activities, and long-term dry dock maintenance needs) will be similar to existing activities for the POSD dry dock currently in use at the facility. Adding the second dry dock will create no new conditions at the site that could result in the accidental release of hazardous materials. Operations for the new dry dock will be subject to the same and/or similar permit and operational requirements and conditions. Dry dock operational activities are conducted in accordance with the following permits and procedures:

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- BAE Systems San Diego Ship Repair Industrial User Discharge Permit (No. 11-0217) issued by the City of San Diego Public Utilities Department Industrial Wastewater Control Program
- National Pollutant Discharge Elimination [NPDES] Permit No. CA0109151 (Order No. R9-2009-0080 modified by No. R9-2010-0090) – Waste Discharge Requirements, BAE Systems San Diego Ship Repair, Inc., Discharge to San Diego Bay
- Best Management Practices (BMP) Program Manual SOPs for dry dock operations at BAE Systems San Diego Ship Repair (BAE, 2013). The BMP Program Manual contains two major objectives:
  - Identify and evaluate potential pollutant sources and pathways associated with ship modification, repair, and maintenance; and
  - Identify and implement site-specific BMPs to reduce or prevent the discharge of wastes and pollutants to waters of the state, and, more specifically, San Diego Bay.

BAE Systems has the following SOPs in place to mitigate the potential impacts of shipyard operations on water quality. These SOPs provide specific details with regard to regulations and permits, responsibilities (of BAE employees as well as subcontractors), procedures, and record keeping/documentation for various shipyard activities and systems that may affect water quality:

- BAE Systems San Diego Ship Repair (SDSR) Procedure 1210-02M (Revised 3/5/14) – Industrial Wastewater Discharge: The purpose of Procedure 1210-02M is to establish SOPs for discharge and recordkeeping of industrial wastewater discharges to the BAE SDSR sewer system.
- BAE Systems SDSR Procedure 1210-03K (Revised 9/12/13) – Dry Dock Submergence Cleaning: This procedure establishes requirements and coordinates activities of BAE Systems SDSR work groups and subcontractors to ensure that dry dock washdown is conducted in a manner that is both efficient and protective of natural resources.
- BAE Systems SDSR Procedure 1210-04K (Revised 6/6/14) – Oil-Water Separator Operation: The purpose of Procedure 1210-04K is to describe acceptable methods of operation, maintenance, and BMPs for Oil-Water Separators used at BAE Systems SDSR for treatment of bilge, ballast, and other oily wastewater sources.
- BAE Systems SDSR Procedure 1220-02J (Revised 1/6/14) – Abrasive Blasting and Spay Painting Containment Procedures: This procedure establishes operational controls and BMPs to ensure that hydroblasting, pressure washing, abrasive blasting, and spray painting operations are conducted in a manner that is protective of the environment.
- BAE Systems SDSR Procedure 1230-02L (Revised 5/5/14) – Hazardous Wastes Manifest: This SOP establishes standard practices for manifesting hazardous waste.
- BAE Systems SDSR Procedure 1230-03C (Revised 7/31/14) – Disposal of Oil from Vessels: This procedure establishes requirements and coordinates activities of BAE Systems SDSR work and subcontractors to ensure that oil removed from vessels is disposed of appropriately, including supporting documentation.

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- BAE Systems SDSR Procedure 1230-04C (Revised 1/27/14) – Scrap Metal Recycling Procedures: This SOP defines the procedures for the segregation, handling, and recycling of scrap metal to ensure that no heavy metals are introduced into the environment.

Specific activities related to dry dock operation and water quality control measures are described below.

Loading and Unloading Vessels

Ships are docked by lowering (submerging) and then raising the dry dock by means of integral ballast tanks, which take in and discharge seawater. Once the dry dock is lowered, a vessel is positioned within the dock. The dry dock is then raised, and the ship is lifted out of the water. Prior to submergence, the dry dock will be cleaned and free of any hazardous material wastes (spent abrasives, paint, petroleum products, sanitary waste, and general refuse and debris) associated with ship repair or maintenance activities taking place within the dry dock. All wastewater from the wash-down process is captured and held at the facility prior to discharge into the City of San Diego Metropolitan Sanitary Sewer System for disposal to a publically owned treatment works (POTW) according to the requirements of Industrial User Discharge Permit (No. 11-0217).

Ship Repair and Maintenance in the Dry Dock

Ship repair and maintenance includes exterior hull repair, preservation (abrasive blasting and/or hydroblasting and painting), shaft repair, propeller and rudder repair, and repair/replacement of valves and fittings below the waterline. Wastes generated during ship repair in dry dock may include spent abrasives, paint, rust, petroleum products, marine growth, and general refuse, all of which are contained and then transferred to shore facilities for disposal.

Environmental protection related to dry dock operations includes complete encapsulation of the vessel to prevent fugitive particulate emissions, storm water collection, and actions to ensure zero discharge of industrial wastewater. In addition, hazardous waste will not be stored on the dry dock for extended periods, the dry dock will be monitored regularly for cleanliness, and other housekeeping procedures will be performed (i.e., waste removal, regular meetings and training sessions, and spill kit supplies checks). Any ship repair activity that presents a spill potential shall be controlled with structural control measures such as curtains, tarps, and shrink-wrap approved and periodically inspected by Environmental Services personnel.

Long-term Dry Dock Maintenance

The dry dock requires long-term maintenance, including repairs and painting, that is similar to the ship repair and maintenance currently being performed. All ship repair and maintenance activities should be considered as pertaining to the dry dock itself when evaluating impact significance.

Storm Water Discharges

The new dry dock will be designed to capture all storm water runoff and waste water, and to monitor flows in a manner similar to the method currently used at the POSD dry dock at BAE Systems (i.e., via a similar NPDES monitoring program). For the current NPDES program,

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ballast water, miscellaneous waste water, and surface runoff are captured and maintained in a robust drainage system with several levels of engineering controls to ensure that all runoff at the shipyard is captured, except in the case of a catastrophic event. Storm water collected at BAE Systems is held in a storm water diversion system (SWDS) and subsequently discharged to the POTW in accordance with BAE Systems' Industrial User Discharge Permit or trucked waste permit.

Potential Impacts:

Potential hazards and hazardous materials associated with the operations of the new dry dock include:

- Release of hazardous materials to surface waters when the dry dock is submerged for loading and unloading of vessels
- Spills of fuels, oils, lubricants, or other liquids or powers during ship repair activities
- Release of hazardous materials during routine dry dock repair and maintenance activities
- Release of hazardous materials associated with the dry dock's ballast water system
- Navigation materials associated when loading or unloading vessels from the dry dock

5.3 Removal of Intake/Discharge Tunnels

The removal of the cooling tunnels would require the following activities:

- Soil and groundwater characterization
- Excavation of soil
- Soil dewatering
- Potential remediation of contaminated soils
- Disposal of the soils
- Installation of shoring to protect the excavation
- Demolition and removal of tunnels (concrete)
- Backfill of the tunnel area with clean structural fill
- Replacement of numerous structures, equipment, and operating systems located over the tunnels
- Shoreline revetment
- Removal of remaining off-shore structure

Based on the findings of the draft Phase I ESA, there is a moderate to high probability that hazardous materials or wastes are present at the site (Ninyo & Moore, 2014). Any soil or

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groundwater generated may result in a short-term increase of hazardous waste disposal. If hazardous materials or wastes are encountered during construction activities (e.g., contaminated soil and groundwater), there is low likelihood that the disturbance would create a significant hazard to the public or the environment, by way of direct contact or leeching into groundwater or the San Diego Bay, with the implementation of mitigation measures outlined in Section 6.0, Mitigation Measures.

In addition, the cooling tunnels currently have an opening to the San Diego Bay that would likely be removed to (at least) the mean high tide line following tunnel removal. This change would mean there is no longer a connection to San Diego Bay.

As outlined in the geotechnical report under separate cover, construction dewatering will need to occur to enable removal of the cooling tunnels followed by backfilling (TerraCosta, 2014). Using a shoring system such as sheet piling or secant piling may be generally effective at reducing groundwater infiltration into the excavation, but infiltration cannot be eliminated. As such, dewatering pumps will be required to further remove groundwater from the excavation. Depending upon the volume of water produced, and the water quality, water may possibly be treated and discharged accordingly, or may have to be hauled to an appropriate facility. Dewatering volumes, means and methods, water treatment, and the need for appropriate permits, should be assessed during the project level or design phase assessment of the cooling tunnel removal project.

As with the land-side construction activities, the shoreline will remain covered in impervious surfaces (similar to current conditions); therefore, future conditions on the project site will not alter water quality with regard to storm water flow or drainage patterns. In addition, a 67-foot long sheet-pile wall will be installed in two segments (one 85 foot section and one 15 foot section) along the shoreline in support of the Shipyard Sediment CAO. This sheet-pile wall will help prevent contaminated sediment release into San Diego Bay during tunnel removal and will seal the mouth to the tunnels during construction and replacements of revetment. Installation of this wall will facilitate the removal and regrading of the existing slope to allow for the proposed sump. A new rock covered slope extending from the top of the submerged sheet-pile wall to the level landward parcel will also be installed. Construction level details regarding proposed removal of the cooling tunnels shall be addressed during the design stage for that project and/or during the preparation of the project level EIR for that phase.

Potential Impacts:

Similar to the dredging and construction activities listed above, impacts to San Diego Bay water quality could be observed during demolition and removal of the cooling tunnels. The potential impacts include:

- Release of potentially contaminated soils, groundwater, and/or debris from the tunnel demolition into San Diego Bay waters via surface runoff or tunnel excavation and removal activities
- Contamination of groundwater resources

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- Potential accidental release of hazardous materials (e.g., oils and fuels) during tunnel removal construction activities

5.4 Cumulative Impacts

The Proposed Project is not anticipated to degrade the quality of the bay floor surface in the local area. However, the potential cumulative impacts resulting from the implementation of this project with respect to other projects in and around San Diego Bay require evaluation. Other projects that are anticipated to be implemented before, during, or after the Proposed Project include the Pier 4 Replacement Project, Pier 3 dredging, and the San Diego Shipyard Sediment Remediation Project, as well as any routine maintenance dredging that may occur before or after the Proposed Project is implemented.

Because of the close proximity between the San Diego Shipyard Sediment Remediation Project location and the Proposed Project location, concurrent implementation of these projects is not feasible. Therefore, there is no increase in the risk of, or potential impacts from, increased vessel traffic in San Diego Bay or from concurrent dredge activities in close proximity. The Pier 4 Replacement Project dredging was completed in September 2014; therefore, the dredging, upland, and ocean disposal of material for the Pier 4 Replacement Project will not affect the Proposed Project. No Pier 3 dredging will be conducted at the same time as the Proposed Project.

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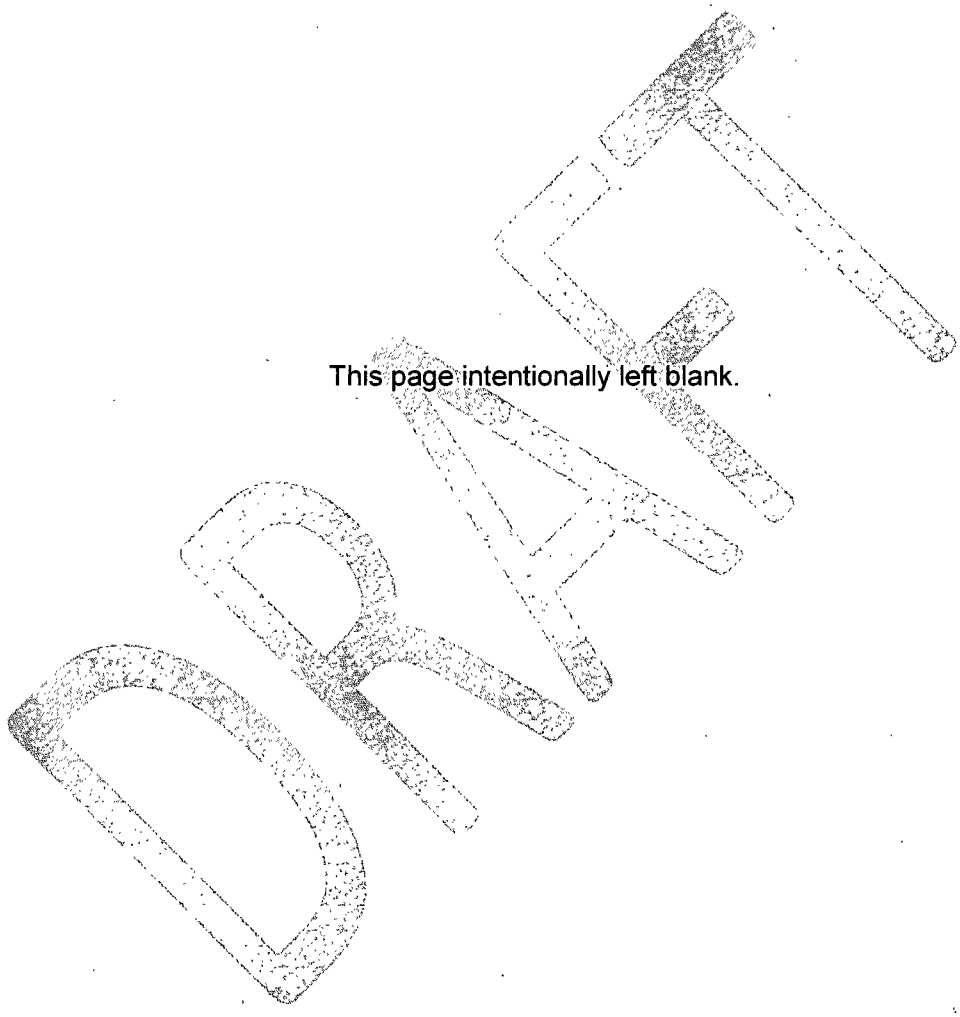

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6.0 MITIGATION MEASURES

This section presents mitigation measures that correspond to Proposed Project impacts described in Section 5.0.

The potential hazards and hazardous material impacts associated with the Proposed Project are reduced to levels less than significant with mitigation incorporated. The Proposed Project will be subject to implementation of BMPs and to oversight by regulatory permitting agencies, including the SDRWQCB, the USACE, and the USEPA. Therefore, the Proposed Project will not result in significant hazards or hazardous materials impacts with compliance and with the mitigation measures described in this section.

6.1 Dredging Activities

Mitigation measures associated with dredging activities are described below.

6.1.1 Mitigation Measure 1: Dredging Management Plan

Prior to commencement of dredging operations, the contractor shall prepare a dredging management plan (DMP) for review and approval by the District and SDRWQCB. The DMP shall contain SOPs that are developed for the Proposed Project prior to initiation of dredging and are implemented for the duration of the dredging activity. The DMP will include the following measures to prevent release of hazardous materials during dredging activities:

1. Personnel involved with dredging and handling of the dredged material will be given training on their specific task areas, which will be identified in the Health and Safety Plan (HASP). The training shall be approved by the District and carried out by BAE Systems per Occupational Safety and Health Administration (OSHA) requirements. The training materials include:
   - Potential hazards resulting from accidental oil and/or fuel spills;
   - Potential impacts to water quality associated with turbidity; and
   - Proper operation of dredging equipment.
2. Required instrumentation to avoid spillage of dredged material will be identified for each piece of equipment used during dredging operations.
3. Personnel will be required to visually monitor for oil or fuel spills during construction activities.
4. In the event that a sheen or spill is observed, the equipment will be immediately shut down and the source of the spill identified and contained. Additionally, the spill will be reported to the applicable agencies presented in the DMP.
5. All personnel associated with dredging activities will be trained as to where to find oil/fuel spill kits, how to deploy the oil-absorbent pads, and how to dispose of the materials properly. The dredging barge shall have a sufficient quantity of oil/fuel spill kits onboard to allow for quick and timely spill containment.

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6. Barge load limits and loading procedures will be identified, and the appropriate draft level will be marked on the materials barge hull.
7. Water discharges (supernatant water from sediment and storm water) to San Diego Bay are prohibited.

During dredging, the District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis; and (2) periodic site inspections.

Dredging activities could create a potential hazard; however, a DMP will be implemented that includes (1) measures to minimize sediment spillage, (2) a Contingency Plan to address equipment and operational failures that could occur during dredging operations and cause sediment resuspension, (3) a HASP and Communication Plan to train workers to prevent and respond to incidents, and (4) prior to dredging, preparation of operational guidelines that address the safe movement of project vessels. These measures will reduce the impacts of dredging activities to levels less than significant. Specific mitigation measures related to dredging will include the following:

1. The contractor will remove dredge material and will not stockpile material on the San Diego Bay floor, and will not sweep or level the bottom surface with the digging bucket.
2. The contractor will not overfill the digging bucket because overfill results in material overflowing back into the water.
3. When dredging sediments that have been deemed unsuitable for unconfined aquatic disposal by the USACE/USEPA, the contractor will deploy and maintain inner- and outer-boundary floating silt curtains fully around the dredging area at all times. Double silt curtains will be utilized for containment of the dredge area; silt curtain configurations, technologies, and actual locations in relation to the dredge barge will be finalized during the design phase of the project.
4. The contractor will not overfill the material barge to a point where overflow or spillage could occur. Each material barge will be clearly marked to allow the operator to visually identify the maximum load point.
5. If the contractor proposes to use weirs as a means to dewater the scow during dredging approved for unconfined aquatic disposal, the use of silt curtains shall be deployed to minimize turbidity. Decanting of dredge scow return water during dredging of material determined to be unsuitable for unconfined aquatic disposal is prohibited.
6. The contractor will place material in the material barge to minimize splashing or sloshing that could send sediment back into the water. Splashing can be controlled by restricting the drop height from the bucket.
7. If the use of a grate to collect debris is required, the contractor will not allow material to pile up on the grate and flow or slip from the grate back into the water. The debris scalper will be positioned to be totally contained on the shore side of the unloading operations.

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8. The dredge operator will visually monitor for debris build-up and alert the support personnel on the barge to assist in clearing the debris, as necessary. Debris that is derived from dredging activities will be removed from the grate by the dredge clamshell bucket and placed in a contained area on the dredge barge or in a second material barge for subsequent removal and disposal.
9. The contractor will restrict barge movement and work boat speeds (i.e., reducing propeller wash) in the dredge area.

6.1.2 Mitigation Measure 2: Contingency Plan

The contractor shall prepare and submit to the District for approval a Contingency Plan prior to initiation of dredging and will implement it for the duration of the dredging activity; the plan will address equipment and operational failures that could occur during dredging operations. The Contingency Plan will include the following measures to prevent a release of hazardous materials in the event of equipment failure, repair, or silt curtain breach:

1. Procedures for communication to project personnel;
2. Installation of proper signage and/or barriers alerting others of potentially unsafe conditions;
3. Specification for repair work to be conducted on land and not over water;
4. Identification of proper spill containment equipment (e.g., spill kit);
5. Identification of other equipment or subcontracting options;
6. Emergency procedures to follow in the event of equipment failure or release;
7. Incident reporting and review procedure to evaluate the causes of an accidental release and steps to avoid further incidents;
8. Response procedures in the event of barge overfill; and
9. Procedures for prompt notification of the District and all other regulatory agencies.

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.1.3 Mitigation Measure 3: Health and Safety Plan for Dredging Activities

The contractor shall prepare and submit to the District for approval a HASP prior to the initiation of dredging and will implement it for the duration of the dredging activity. The HASP will be prepared in general accordance with Federal Occupational Safety and Health Administration Hazardous Waste Operations and Emergency Response Standard (29 CFR 1910.120) and Title 8 California Code of Regulations (CCR) Section 5192. The HASP will be reviewed and approved by a Certified Industrial Hygienist approved by the District and at the contractor's expense.

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The HASP will include the following requirements at a minimum:

1. Training for operators to prevent and respond to releases;
2. Identification of appropriate personal protection equipment for all construction activities, including personal floatation devices, hard hats, and work shoes/clothing;
3. Training in the safe operation of cranes, barges, tugs, and support craft;
4. Site evacuation and emergency first aid response; and
5. Documentation that certifies that required health and safety procedures have been implemented.

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

The handling of hazardous materials in accordance with BAE Systems' Hazardous Materials Business Emergency Plan (HMBEP) as required by applicable local, state, and federal standards, ordinances, and regulations will ensure that impacts associated with environmental and health hazards related to an accidental release of hazardous materials during operation are at levels that are less than significant.

6.1.4 Mitigation Measure 4: Communication Plan

Prior to the initiation of dredging activities, the contractor shall prepare and submit to the District for approval a Communication Plan and operational guidelines for communications between the U.S. Coast Guard and all vessel operators to ensure the safe movement of project vessels from the dredge site to the unloading area. Features of the Communication Plan will include, at a minimum:

1. Identification of vessel speed limitations (e.g., wake/no wake); and
2. Notification to project personnel using air horns as necessary.

6.1.5 Mitigation Measure 5: Supernatant and Storm Water Containment

This mitigation measure only applies in the event that a portion of the dredged material is deemed unsuitable for unconfined aquatic disposal (i.e., upland disposal becomes necessary). The contractor shall ensure that the supernatant and storm water collected from the scow are transported to landside containers. These containers are to be sealed when not in use to avoid overflow during a storm event. Storm water management in the project footprint during all phases of the project will be in compliance with the Statewide General Construction Permit and District requirements. Secondary containment features will be in place around the scows (silt curtains) and holding tanks (berms).

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The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.1.6 Mitigation Measure 6: Sediment Unloading

This mitigation measure only applies in the event that a portion of the dredged material is deemed unsuitable for unconfined aquatic disposal (i.e., upland disposal becomes necessary). If upland disposal of sediment is required, the contractor shall reduce water column impacts by controlling the swing radius of the unloading equipment. A spillage plate will be used to prevent the offloaded sediments from falling into the water beneath the swing radius of the unloading equipment at the offload location, which will limit spillage from removal of the wet sediment slurry falling directly into the water. All equipment used to move sediments from the scow to the trucks as well as the trucks used to transport sediments to the landfill will be properly cleaned and any waste water will be properly contained and disposed.

The contractor shall use a power wash unit to reduce impacts related to spillage from the excavator arm onto transport vehicles. In the event that sediment is spilled onto the transport vehicle, it can be quickly washed and the water directed into the collection sump. The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.1.7 Mitigation Measure 7: Overfilling Transport Vehicles, Increasing Potential to Spill onto the Roadway

If dredging of sediment deemed to be unsuitable for unconfined aquatic disposal is necessary, the contractor shall ensure that truck volumes are limited to prevent spillage and will be based on visual observations, and that trucks will be covered and secured per Cal-DOT regulations during transport to the disposal facility. The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.1.8 Mitigation Measure 8: Operator Error Spilling Sediment during Loading

If dredging of sediment deemed to be unsuitable for unconfined aquatic disposal is necessary, the contractor shall ensure that trucks are loaded within a constructed loading zone to confine sediment spilled during the loading process. Prior to entering the roadway, the vehicles will be power washed to prevent cross-contamination onto the roadways. The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

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6.2 Construction Activities

Mitigation measures associated with construction activities are described below.

6.2.1 Mitigation Measure 9: Secondary Containment

Prior to the commencement of dredging, demolition, or construction activity, the contractor shall install a secondary containment structure for the storage of all fuel, oil, and other petroleum products, as required by the USMP (District, 2010), the BAE BMP Manual (BAE Systems, 2013), and current or updated BAE Systems Environmental SOPs. At all times during construction and operation of the Proposed Project, the contractor shall house all oil and fuel in a secondary containment structure to ensure that spilled or leaked oil or fuel will be prevented from entering the water column. The District will verify implementation of this measure through (1) periodic site inspections to verify that a secondary containment structure is in place and functioning, and (2) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis.

6.2.2 Mitigation Measure 10: Health and Safety Plan for Land-side Construction Activities

Although no significant ground disturbance is anticipated with the Proposed Project component evaluated for this technical report, this mitigation measure is included to ensure that appropriate precautions are taken should contaminated groundwater or soils be encountered during any trenching activities. Implementation of this project feature requires compliance with safety measures required by OSHA and will adequately address potential impacts related to contaminated groundwater or soils, should any be encountered during limited landside construction activities:

During all excavation and trenching activities for utilities, BAE Systems shall require that all construction subcontractors address site safety requirements by complying with the appropriate health and safety measures required by the OSHA-applicable specifications in regard to earth resources (Section 29 Code of Federal Regulations [CFR] Part 1926), which are focused on worker safety in excavations. In the event that suspicious odors are detected in soil, construction shall be terminated until the soil is properly characterized for hazardous waste content. Appropriate measures shall be taken in compliance with all applicable regulations for the characterization and disposal of hazardous materials.

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.2.3 Mitigation Measure 11: Soil Management Plan

Prior to commencing any on-shore construction activities, a Soil Management Plan will be prepared that describes the procedures to be implemented in the event that contaminated soils are discovered during installation of utilities, seawalls, and other landside features. The plan will

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describe contaminants that may be encountered during ground disturbance activities, sample collection and analytical techniques that will be employed to screen contaminant in the soils, segregation and handling of contaminated soils, and procedures for the proper transportation and disposal of any identifies wastes. Appropriate measures shall be taken in compliance with all applicable regulations for the characterization and disposal of hazardous materials.

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.3 Dry Dock Operations

Mitigation measures associated with dry dock operations are described below.

6.3.1 Mitigation Measure 12: Update Dry Dock Operations Permits, BMP Manual, and SOPs

Operations of the new dry dock (ship loading and unloading, ship repair and maintenance activities, and long-term dry dock maintenance needs) will be similar to existing operational activities for the POSD dry dock currently in use at the BAE Systems facility. Adding the second dry dock will not create new conditions at the facility that could result in impairments to water quality. Operations for the new dry dock will be subject to the operational requirements that are the same as or similar to those of the existing dry dock.

As soon as practicable, BAE Systems will update and modify the permits and operational BMPs and SOPs that mitigate the impacts to water quality during the normal operations and maintenance of the new dry dock.

6.4 Intake/Cooling Tunnel Removal

6.4.1 Mitigation Measure 13: Environmental Controls During Intake/Discharge Tunnel Removal

According to the Intake/Discharge Tunnel Phase I ESA prepared by Ninyo & Moore, subsurface disturbance activities (e.g. soil excavation) should include the preparation and implementation of a Soil and Groundwater Management Plan. The plan would address the possibility of encountering areas of potential environmental concern as well as control measures in place to mitigate potential environmental and human health impacts (Ninyo & Moore, 2014). The plan should be prepared by a qualified environmental consultant and should be implemented during subsurface disturbance activities by the contractor under the oversight of an environmental professional on behalf of the project proponent. The plan should address soil and groundwater monitoring, handling, stockpiling, characterization, reuse, export, and disposal protocols. The objective of the plan is to assist the contractor in the excavation, notification, monitoring, segregation, characterization, handling, and reuse and/or disposal (as appropriate) of waste that may be encountered during earthwork activities.

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The project-specific Soil and Groundwater Management Plan shall follow the guidelines and procedures prescribed by the County of San Diego Department of Environmental Health (DEH) Site Assessment and Mitigation Program. Specific components of the plan would follow the guidance outlined in the current Site Assessment and Mitigation (SAM) Manual. Prior to excavation of site soils, preparation of a Corrective Action Plan (CAP) may be required if there is evidence that surface water or groundwater has been or may be affected by the unauthorized release, or there is evidence that contaminated soils are or could come in contact with surface water or groundwater. A CAP includes the following four basic elements:

1. Assessment of impacts
2. Determination of applicable cleanup levels
3. Feasibility study and corrective action work plan
4. Plan to monitor and report the effectiveness of the corrective action

If contaminated soils are encountered during the tunnel removal process, they will need to be evaluated for off-site disposal. Contaminated soils are assumed to require disposal at a Class I landfill. The nearest Class I landfill to the project site is Clean Harbors Buttonwillow LLC facility located in Buttonwillow, California. Documentation of proper disposal of the soil (bill of lading, weigh tickets, manifests, etc.) must be submitted to DEH.

In addition, measures should be taken to prevent any potentially contaminated soil or water from entering the San Diego Bay during the tunnel removal and associated construction. To ensure that no contaminants from the tunnels or the construction area enter San Diego Bay, appropriate BMPs should be put in place. BMPs may include a silt curtain or other containment device used during tunnel removal or construction to prevent any activities from impacting bay waters outside the immediate area. Any water generated during construction should be captured prior to release into the storm sewer system.

In addition, tunnel removal activities would need to comply with various regulations, including (but not limited to):

- Requirements of the statewide National Pollutant Discharge Elimination System (NPDES) Construction General Permit.
- SWRCB Statewide General Waste Discharge Requirements (WDRs) for discharges to land with a low threat to water quality (Order No. 2003–0003-DWQ).
- Requirements set forth in the *General Waste Discharge Requirements for Discharges from Temporary Groundwater Extraction and Similar Waste Discharges to San Diego Bay, Tributaries Thereto under Tidal Influence, and Storm Drains or Other Conveyance Systems Tributary Thereto Order No. R9-2007-0034 (NPDES No. CAG919001)*.
- San Diego Municipal Storm Water Permit (Order No. R9-2013-0001, NPDES No. CAS0109266).

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- Requirements outlined in the SUSMP to prepare an Urban Storm Water Mitigation Plan (USMP). The USMP would include BMPs to reduce pollutants of concern and BMP maintenance provisions in an Operations and Maintenance Plan. The proposed project would also be required to comply with the Storm Water Management and Discharge Control Ordinance adopted by the District which sets forth requirements for dischargers and places of discharge to protect and enhance water quality

In accordance with the Construction General Permit, the Municipal Permit, and the Storm Water Management and Discharge Control Ordinance, prior to construction appropriate BMPs would be identified and implemented pursuant to a project-specific Stormwater Pollution Prevention Plan (SWPPP). Temporary or short-term BMPs identified in the Jurisdictional Urban Runoff Management Program (JURMP) that could be included in the project SWPPP include the following:

- Concrete waste management
- Desilting basin
- Erosion control mats and spray-on applications
- Fiber roll
- Gravel bag berm
- Material delivery and storage
- Paving and grading operations
- Sandbag barrier
- Silt fence
- Solid waste management
- Spill prevention and control
- Stabilized construction entrance/exit
- Stockpile management
- Storm drain inlet protection
- Street sweeping and vacuuming
- Vehicle and equipment maintenance
- Water conservation practices

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APPENDIX A

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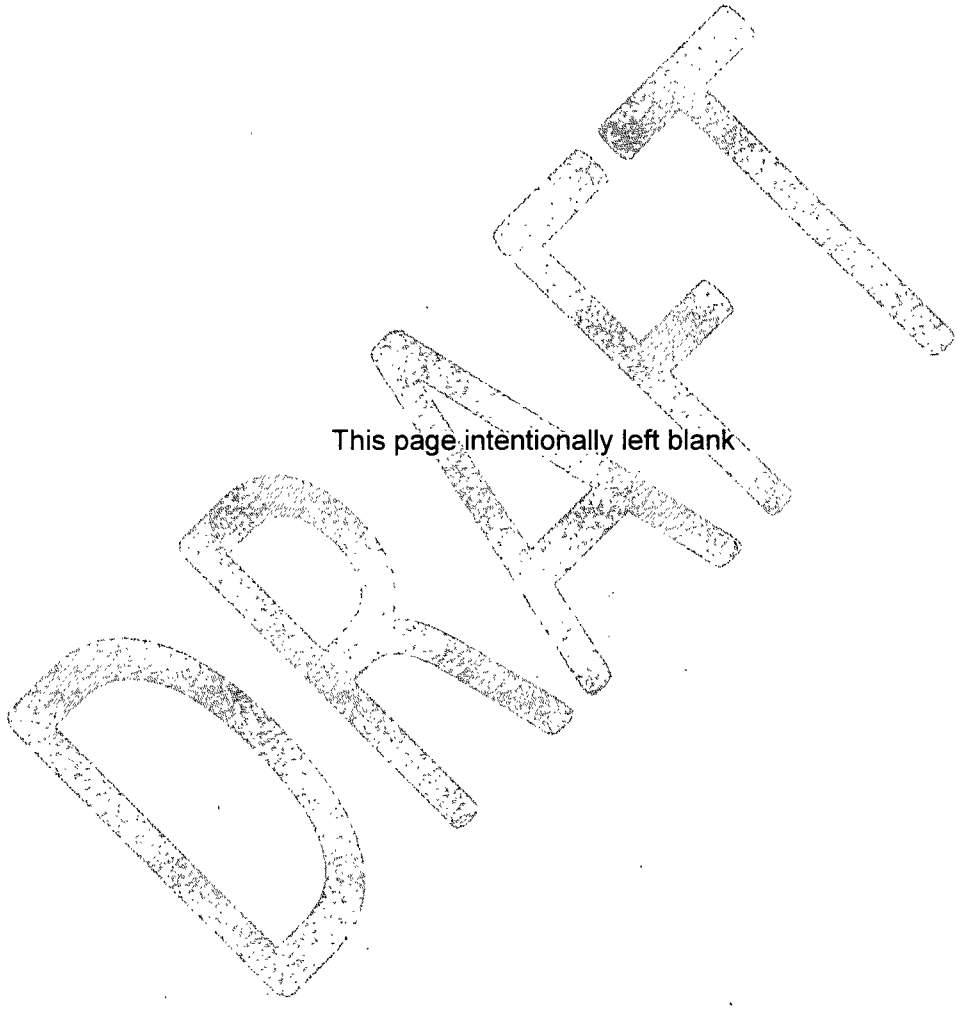

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DRAFT FINAL
PIER 1N DRY DOCK SUMP DREDGING PROJECT
DREDGED MATERIAL CHARACTERIZATION STUDY
BAE SYSTEMS SAN DIEGO SHIP REPAIR
SAN DIEGO, CALIFORNIA

Submitted to:

BAE SYSTEMS

BAE Systems
San Diego Ship Repair
2205 East Belt Street, Foot of Sampson Street
San Diego, California 92113

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December 2014

AMEC Project No. 1415100400

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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius
µg/kg	micrograms per kilogram
AMEC	AMEC Environmental & Infrastructure, Inc.
ASTM	American Society for Testing and Materials
BAE Systems	BAE Systems San Diego Ship Repair
BCF	bioconcentration factor
BP	bioaccumulation phase test
Environ	Environ Laboratories, LLC
Eurofins Calscience	Eurofins Calscience Environmental Laboratories
CAO	Cleanup and Abatement Order
CFR	Code of Federal Regulations
cm	centimeter
COC	chemicals of concern
cy	cubic yard(s)
DDD	dichlorodiphenyldiethane
DDE	dichlorodiphenylethylene
DDT	dichlorodiphenyltrichloroethane
DGPS	differential global positioning system
EC_{50}	median effected concentration
EPA	U.S. Environmental Protection Agency
ERL	effects range low
ERM	effects range median
FDA	U.S. Food and Drug Administration
ft	feet/foot
ft^2	feet squared
HPAH	High molecular weight polycyclic aromatic hydrocarbon
LA-5 ODMDS	LA-5 Ocean Dredged Material Disposal Site
LC_{50}	median lethal concentration
LCS	laboratory control sample
LPC	limiting permissible concentration
m	meter
MB	method blank
MDL	method detection limit

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ACRONYMS AND ABBREVIATIONS (Cont.)

µg/kg	Microgram per kilogram
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mL	milliliter
MLLW	mean lower low water
MS	matrix spike
MSA	method of standard addition
MSD	matrix spike duplicate
NOAA	National Oceanic and Atmospheric Administration
ND	non-detect
oz	ounce
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
Pier 1N	Pier 1 North (northern side of Pier 1)
ppt	parts per thousand
QA/QC	quality assurance/quality control
RPD	relative percent difference
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
Seaventures	Seaventures, Inc.
SIM	selected ion monitoring
SP	solid-phase toxicity test
SPP	suspended-particulate phase toxicity test
SVOC	semivolatile organic compound
TerraCosta	TerraCosta Consulting Group, Inc.
TEG	TEG Oceanographic Services
U.S.	United States
USACE	U.S. Army Corps of Engineers

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1.0 INTRODUCTION

This document is the sediment characterization report for the proposed BAE Systems San Diego Ship Repair (BAE Systems) Pier 1 North (Pier 1N) Dry Dock Sump Dredging Project (Project). AMEC Environment & Infrastructure (AMEC) was contracted by BAE Systems to prepare a Project sampling and analysis plan (SAP), collect sediment samples at the Project site, and provide a sediment characterization report based on the results of the laboratory testing of samples. AMEC prepared the SAP and presented it to the United States Army Corps of Engineers (USACE) and U.S. Environmental Protection Agency (USEPA) for review on May 9, 2014. The SAP was then revised based on USACE and USEPA comments provided on May 13, 2014 and approved May 19, 2014.

A revised draft of this report was submitted to the agencies on 6 November 2014. The agencies commented on the draft 17 November 2014. This revision includes clarification and information requested by the agencies for their suitability for unconfined aquatic disposal determination. The comments and response are included as Section 9.0 of this report.

1.1 Project Location and Description

BAE Systems is located at 2205 East Belt Street, San Diego, California (Figure 1-1). The Project is to deepen the existing wet berth north of Pier 1 to accommodate a new dry dock (Figure 1-2). The purpose of the new dry dock is to increase the dry dock capacity of BAE Systems that is needed to provide maintenance support for existing and future United States Navy (Navy) ships. This Project also supports the Port's Master Plan (October 2013), which states that "...renovation and redevelopment of existing facilities will continue as industries respond to market demands and changes in the maritime industrial climate."

BAE Systems proposes the following tenant improvements by the Project:

- Dredging approximately 395,000 cubic yards (cy) of sediment;
- Installation of one new and one retrofitted dry dock mooring dolphin;
- Installation of ramp wharf structures designed for accessing the dry dock;
- Construction of a permanent sheet pile wall on the north side of Pier 1; and
- Upgrades of onshore utilities and associated infrastructure (including shoreline bulkhead).

The Project involves dredging of bay bottom sediment associated with the installation of a new dry dock at the ship repair facility located on San Diego Bay. The proposed dredge design depth is approximately -65 feet MLLW to accommodate the dry dock. The dry dock dimensions will be 205 ft by 851 ft, plus an apron on each end (Figure 1-2). Approximately 80 percent of the dredged material is expected to be native sediment deposits, with a smaller fraction of the dredged material, approximately 20 percent, expected to be unconsolidated bay mud (Figure 1-3). Most of the dry dock dredging will be performed east of the U.S. Pierhead Line, and within Port tidelands jurisdiction. Dredging west of the U.S. Pierhead Line is within the jurisdiction of the California State Lands Commission and the California Coastal Commission. In

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addition to Port District approvals, the Project will also require separate authorizations from two state agencies, the USACE and the San Diego Regional Water Quality Control Board (SDRWQCB).

1.2 Sediment Characterization Study

The goal of the sediment characterization study is to evaluate the suitability of the dredged material within the Project footprint for a range of disposal alternatives including disposal at the LA-5 Ocean Dredged Material Disposal Site (ODMDS) and/or beneficial reuse. The LA-5 ODMDS is 5.4 nautical miles from Point Loma, on the ridged slope of the continental shelf at approximately 100 fathoms deep (Figure 1-4). Ocean disposal of dredged materials is regulated under Section 103 of the Marine Protection, Research, and Sanctuaries Act, Title 33 Code of Federal Regulations (CFR) 320–330 and 335–338. Environmental evaluations of dredged materials proposed for ocean disposal will comply with applicable criteria published in Title 40 CFR 220–238.

The objectives of the study are to (a) analyze the results of the sediment chemistry, toxicity, and bioaccumulation tissue tests for unconsolidated bay mud within the dredge footprint, and (b) to obtain approval for unconfined aquatic disposal using abbreviated modified Tier II Green Book testing scheme for the native sediment that is found in the deeper layers of the dredge footprint.

The installation of the new dry dock will require dredging a deeper dry dock sump into the bay bottom. The sump is needed when the dry dock is submerged to allow loading or unloading of ships. The estimated volume of dredged material for this project is 381,000 cubic yards (cy) to the proposed dredge depth of -65 feet (ft) mean lower low water (MLLW). The estimated volume of a 1-foot overdredge (to -66 ft MLLW) allowance is approximately 14,000 cy which increases the total dredged volume to approximately 395,000 cy. It is estimated that approximately 20 percent of the dredged material (or less) will be unconsolidated bay mud (approximately 79,000 cy), while the vast majority (80 percent) of the dredged material (approximately 316,000 cy) will consist of undisturbed, native sediments.

1.2.1 Sediment Characterization Study Approach

The disposal location for the Project will be selected in consultation with the USACE and USEPA, based on the results of this sediment characterization. This study uses a tiered approach to sampling and analysis that streamlines the disposal determination process. To assess the suitability of the dredged material for ocean disposal, the sediments within the proposed dredge footprint were characterized in accordance with the guidelines of the USEPA and the USACE, as outlined in *Evaluation of Dredged Material Proposed for Ocean Disposal* (Green Book) (USEPA/USACE, 1991) and *USEPA Region 9 General Recommendations for Sediment Testing of Dredged Material Proposed for Ocean Disposal* (USEPA, 1991).

The Green Book outlines a tiered, effects-based testing protocol to determine the acceptability of dredged material for disposal at designated ocean disposal sites. The Green Book Tier III analysis (physical, chemical, and biological testing) was selected as the most appropriate level of evaluation for this study for unconsolidated sediment, while abbreviated modified Tier II analysis was performed to evaluate native material within the Project footprint.

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Regional Location
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
1-1

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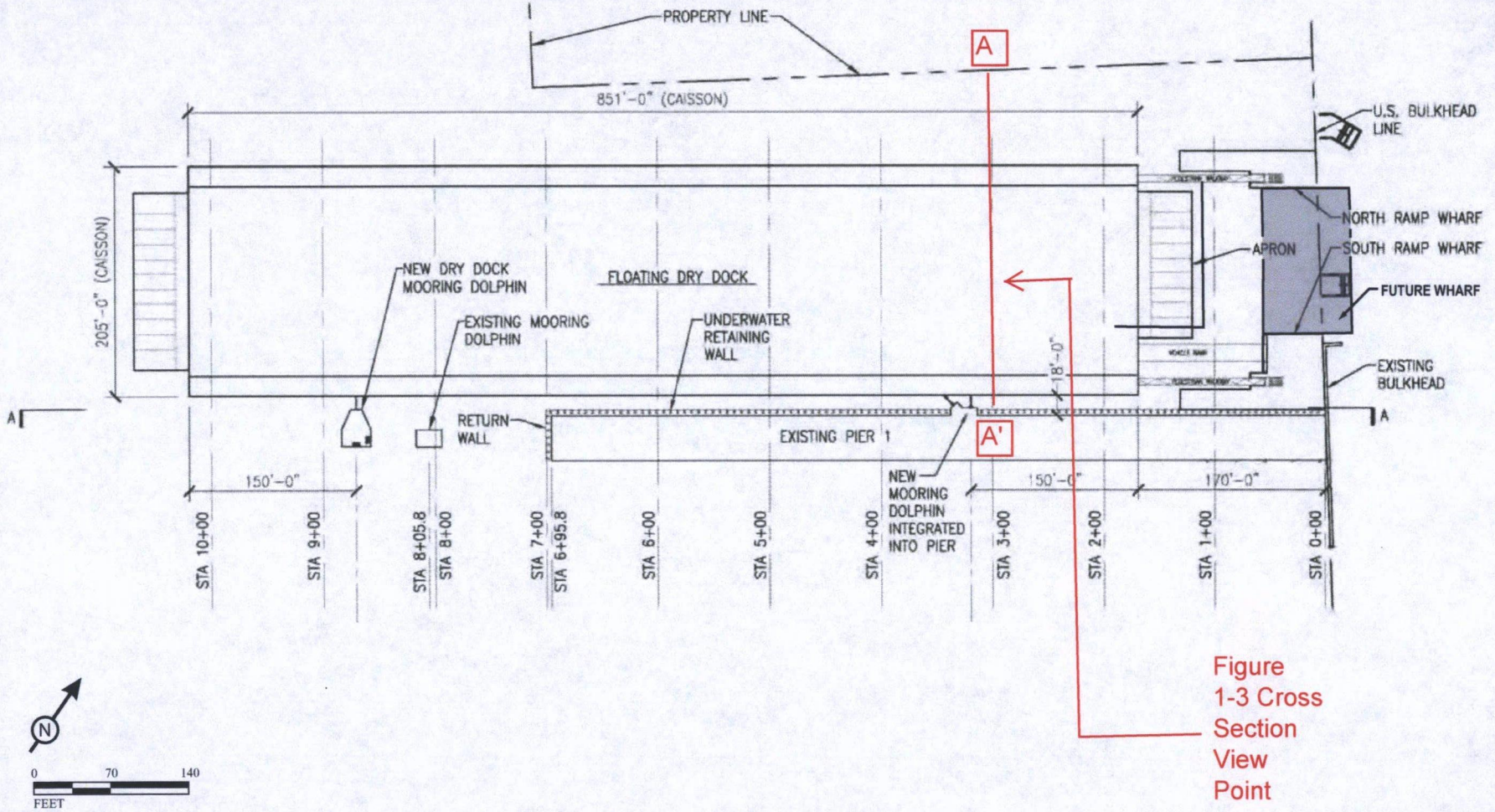

SOURCE: LSA, 2014 (Original file from BAE Systems, 2014)

Proposed Dredge Area
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
1-2

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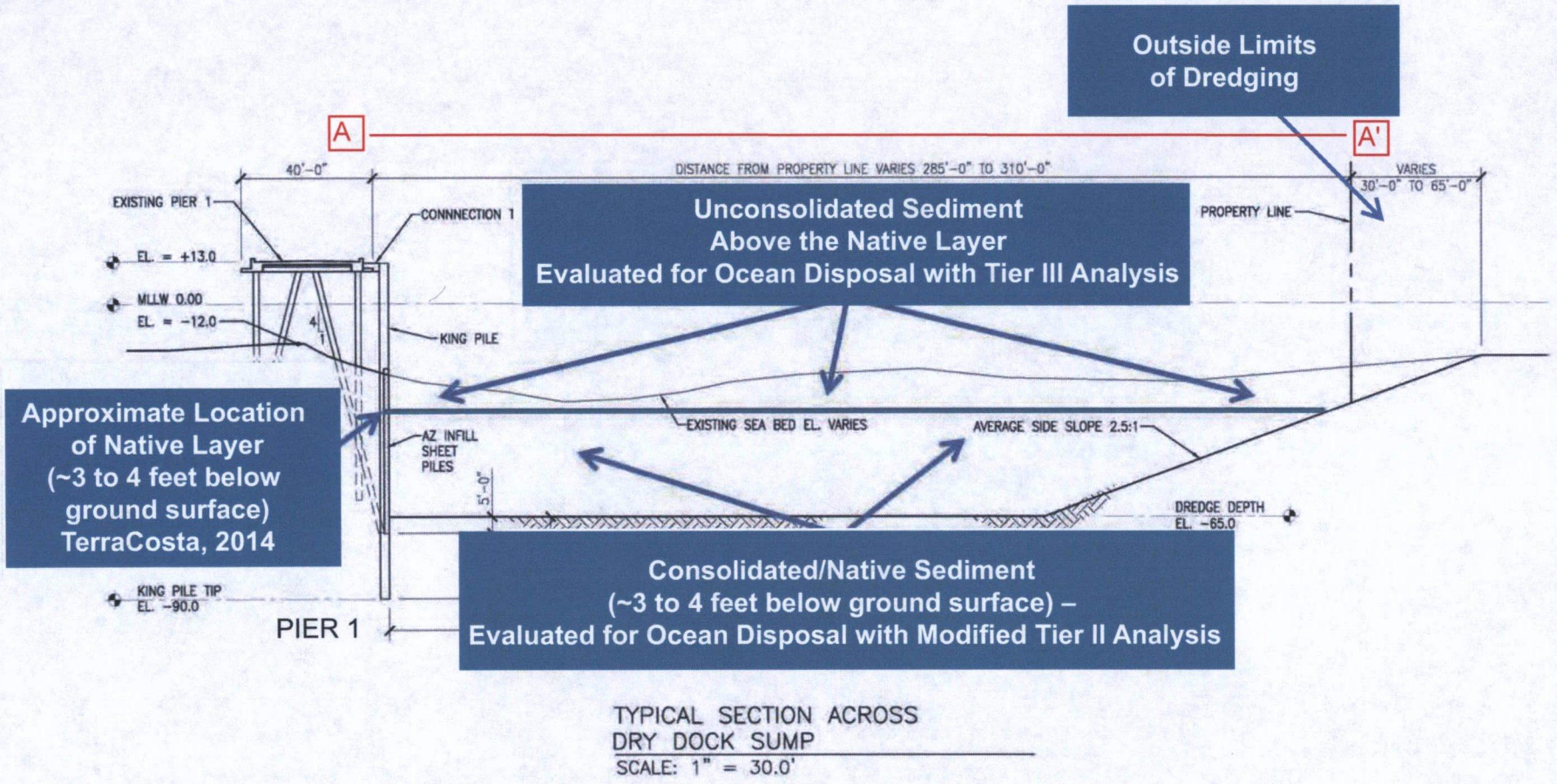

TYPICAL SECTION ACROSS
DRY DOCK SUMP
SCALE: 1" = 30.0'

SOURCE: Triton Engineers, 2014

Note: Cross section view point is from bulkhead. Pier 1 is on the left side of the page.

Disposal Consideration Cross-Section
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
1-3

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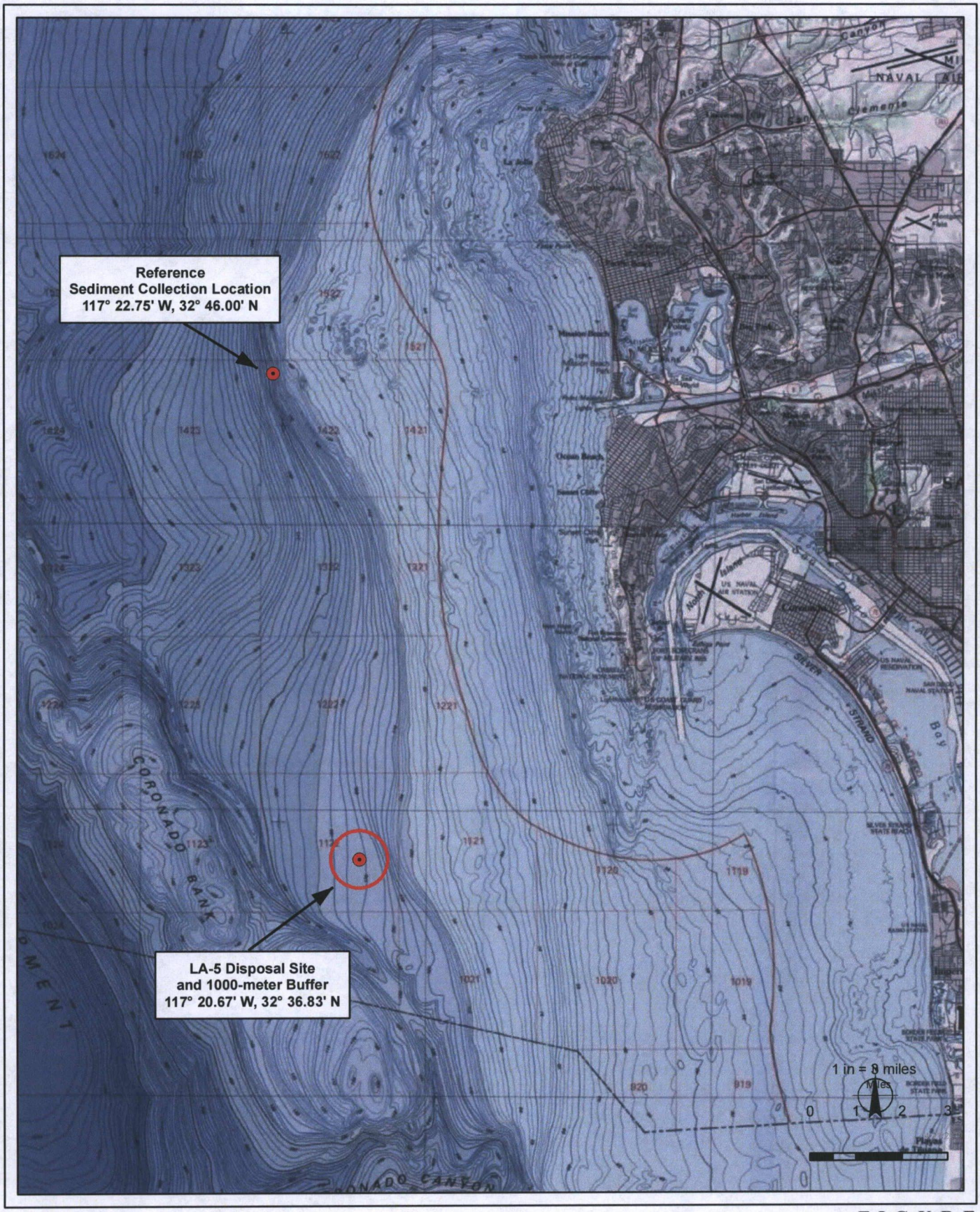

Location of LA-5 Ocean Dredged Material Disposal and Reference Sediment Collection Sites

FIGURE 1-4

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Geotechnical evaluations were also performed as part of this sediment characterization study to evaluate the native sediment layer across the entire proposed Project footprint (including Area C). The geotechnical evaluation was performed by TerraCosta Consulting Group, Inc. (TerraCosta) in June 2014.

Tiered Testing Approach

The suite of bioassay tests used to determine ocean disposal acceptability are (a) suspended particulate-phase (SPP) analyses to determine water column effects; (b) solid-phase (SP) tests to determine whole sediment benthic toxicity effects; and (c) bioaccumulation-phase (BP) tests to analyze potential food web impacts.

Tests were conducted according to the regulations contained in Title 40 CFR Parts 220–228, and all applicable methods guidelines as described in the Project-specific SAP (AMEC, 2014).

Iterative Approach to Testing and Analysis

Because of the two distinct types of sediment found within the dredge footprint (unconsolidated and native), this dredged material study employed multiple characterization approaches. This iterative approach was designed to streamline the disposal decision process.

For the unconsolidated bay mud, the first step in the iterative approach was sediment chemical analyses and a SP toxicity test with amphipods. The results of this step indicated that chemical analyses and toxicity test results appeared favorable for unconfined aquatic disposal of the dredged material in the ocean or San Diego Bay. Consequently, the second step in the iterative approach, consisting of additional toxicity testing and bioaccumulation exposures, was conducted.

Phased Sampling Approach

It is important to note that portions of the Project footprint are within an area regulated by Cleanup and Abatement Order (CAO) R9-2012-0024 of the SDRWQCB (SDRWQCB, 2012c). Therefore, the sediment characterization study described in this report will be performed during two separate sampling events (Phase 1 and 2, Figure 1-5). The CAO area is discussed in Section 2.2 and details of the sampling approach are outlined in Section 3.1.

To characterize the native sediments found deeper in the dredge footprint, samples collected during a geotechnical evaluation performed by TerraCosta were analyzed for physical and chemical characteristics. TerraCosta's investigation also details geotechnical information about the native material that makes up the majority of the dredge footprint (including that which underlies Composite Area C; TerraCosta, 2014). This detailed information, in addition to chemical and physical analysis of the geotechnical samples, is used in this report to support an exclusion from additional testing for unconfined aquatic disposal for the native sediments within the proposed Project footprint.

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1.2.2 Detailed Study Information

This report provides information on:

- Sample collection methods and locations;
- Sediment chemistry, toxicity, and bioaccumulation testing methods;
- Sediment chemistry, toxicity, and bioaccumulation testing results;
- Data analysis;
- Comparison of the results and the data analysis to available guidelines and databases for sediment and water quality;
- Quality assurance and quality control (QA/QC) evaluations of all results and deliverables for the proposed project; and
- Project-specific recommendations based on the limiting permissible concentration (LPC) criteria for disposal suitability as defined in the Green Book.

Vibracore logs, chemistry reports, and field photographs are appended to this report for reference. In addition, detailed geotechnical boring logs and data are also included as part of Appendices A and B.

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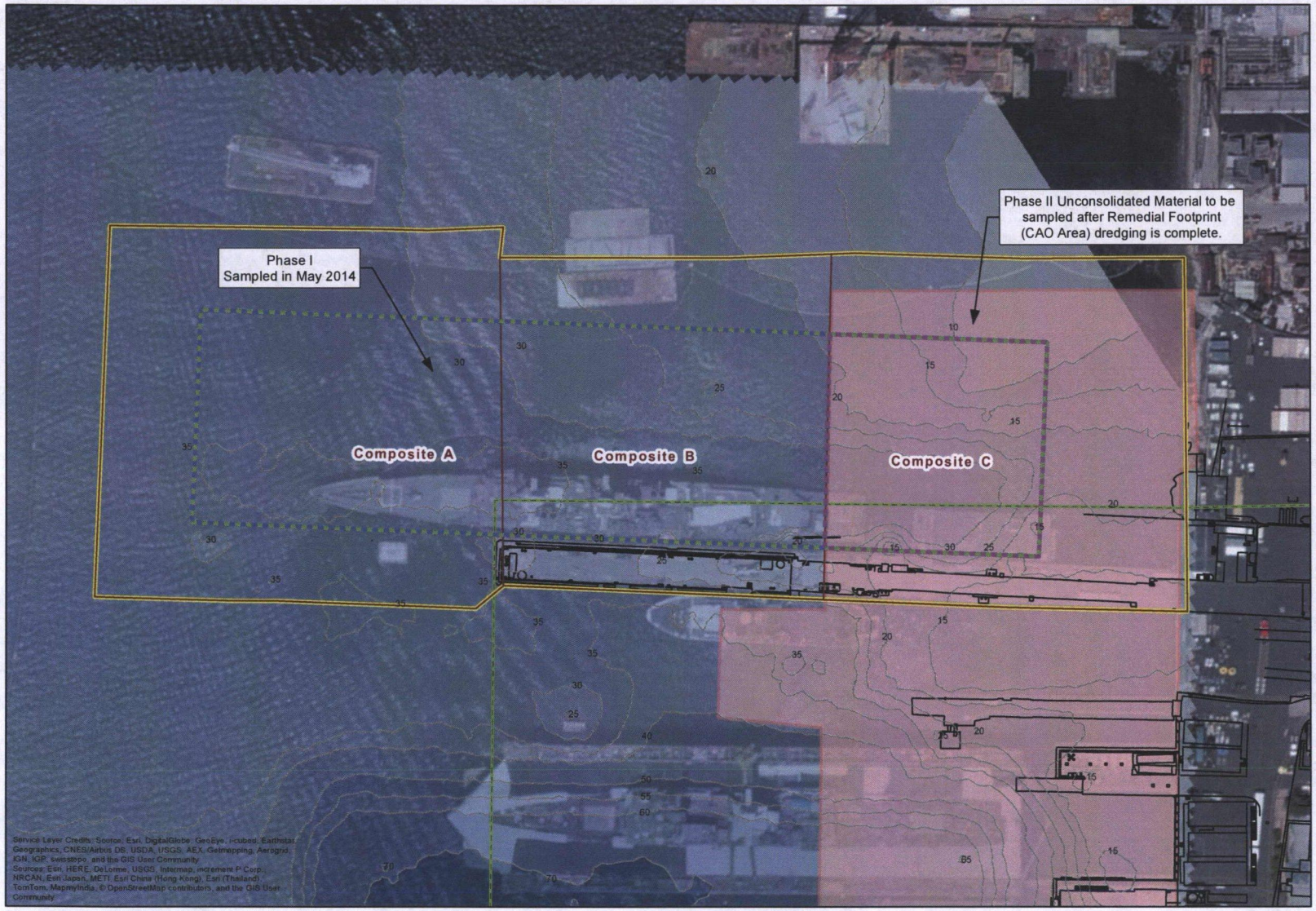

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Legend

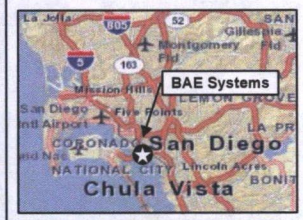
- Pier 1N Project Area
- Composite Area
- Proposed Dry Dock Sump
- Remedial Footprint (CAO Area)

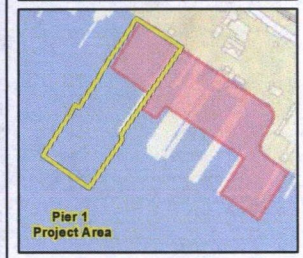
Phased Sampling Areas

- Phase I
- Phase II
- BAE Leasehold
- Depth Contour (ft MLLW)
- BAE Facility (CAD)

Bathymetry (ft MLLW)

Above -10	-40-50
-10-20	-50-60
-20-30	-60-70
-30-40	Below -70





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BAE SYSTEMS

Phased Sampling Approach
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

1 inch = 100 feet

0 50 100 Feet

FIGURE
1-5

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2.0 SITE HISTORY

BAE Systems maintains industrial facilities (production shops, offices, and related utilities, and infrastructure) for the maintenance, repair, overhaul, and conversion of large naval and commercial vessels. BAE Systems is currently the prime contractor for five classes of Navy vessels: cruisers, destroyers, amphibious transport docks, dock landing ships, and mine countermeasures. The BAE Systems facility encompasses approximately 13 acres of land and 20 acres of water. The facility is designed to support both pier-side repair (including vessel berthing) and dry dock repair, under multi-ship, multi-option contracts.

Three working piers exist at BAE Systems to moor vessels for ship repair activities. These piers (Piers 1, 3 and 4) currently accommodate berthing of large, deep-draft Navy and (to a lesser extent) commercial vessels, and include a variety of crane and utility services.

BAE Systems currently has one floating dry dock—the "*Pride of San Diego*," which has been operating at the site since 1984. BAE Systems formerly operated a second dry dock at the site, but in 2010 it was sold and relocated to the South Bay. In 2013, the dry dock was again sold and removed from San Diego Bay. The proposed location of the new dry dock eliminates one large vessel wet berth at Pier 1N as illustrated on Figure 2-1.

2.1 Recent Sediment Characterization Studies

BAE Systems has performed two dredged material characterization studies since 2010 (i.e., *Pride of San Diego* Dry Dock Sump dredging and Pier 4 Replacement dredging), both of which included dredging and facility upgrades. In addition, portions of the BAE Systems leasehold are included in the "Shipyard Sediment Cleanup and Abatement Area" that is subject to requirements of the CAO (SDRWQCB, 2012c). Since 2001, two sediment characterization studies have been performed at BAE Systems to support the Shipyard Sediment CAO. These studies are discussed in Section 2.2.

Figure 2-2 shows the locations of all samples collected within the BAE Systems Shipyard since 2001. Sampling types include vibracore, push core, and grab samples collected to evaluate various disposal options including ocean, upland, landfill classification and approval, and in support of the CAO. A table of sampling points and dates for all projects at BAE Systems, in addition to summaries of all analytical chemistry data collected on the north side of Pier 1 (only) are included in Appendix A of the Project-specific SAP (AMEC, 2014).

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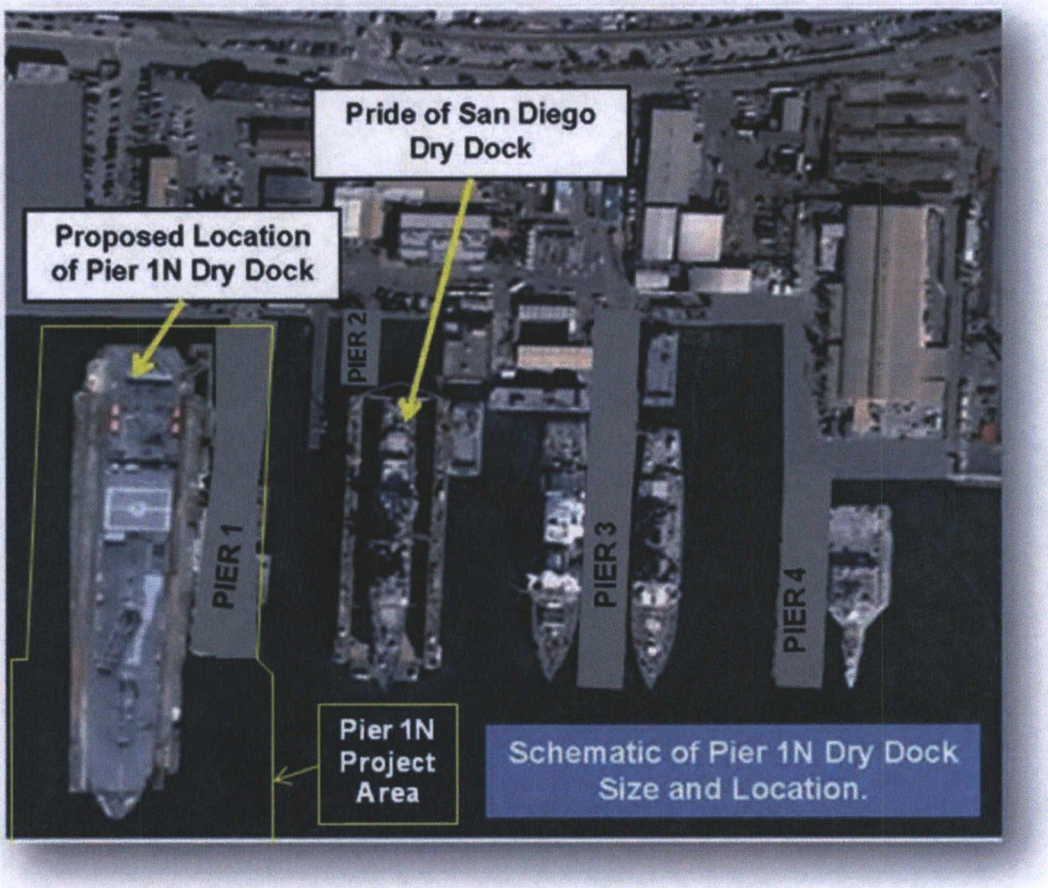
Figure 2-1. New Dry Dock Schematic



2.1.1 Dry Dock Sump Dredging Project

In December 2010 and January 2011, BAE Systems performed maintenance dredging of the dry dock sump area between Piers 2 and 3 (AMEC, 2011a, b). This area was dredged to −70 ft MLLW, with a 2 ft overdredge allowance (a total depth of −72 ft MLLW). The dredging removed approximately 7,000 cy of sediments that had slowly built up in the dry dock sump since its construction in 1984. Prior to dredging, the deposited sediments had prevented the dry dock from fully submerging, which impaired ship dry docking capability.

In addition to evaluating the material for disposal approval and permitting, the dry dock sediment characterization study tested the resultant post-dredge sediment quality of the new bay bottom following dredging (i.e., the Z-layer), particularly within the CAO area. The resultant surface layer post-dredging was clean, native hard-pan material. In 2011, BAE Systems was granted landfill acceptance of the dry dock sump dredging material. The material was dredged by R.E. Staite and transported to the Otay Mesa Landfill, in Chula Vista, California.

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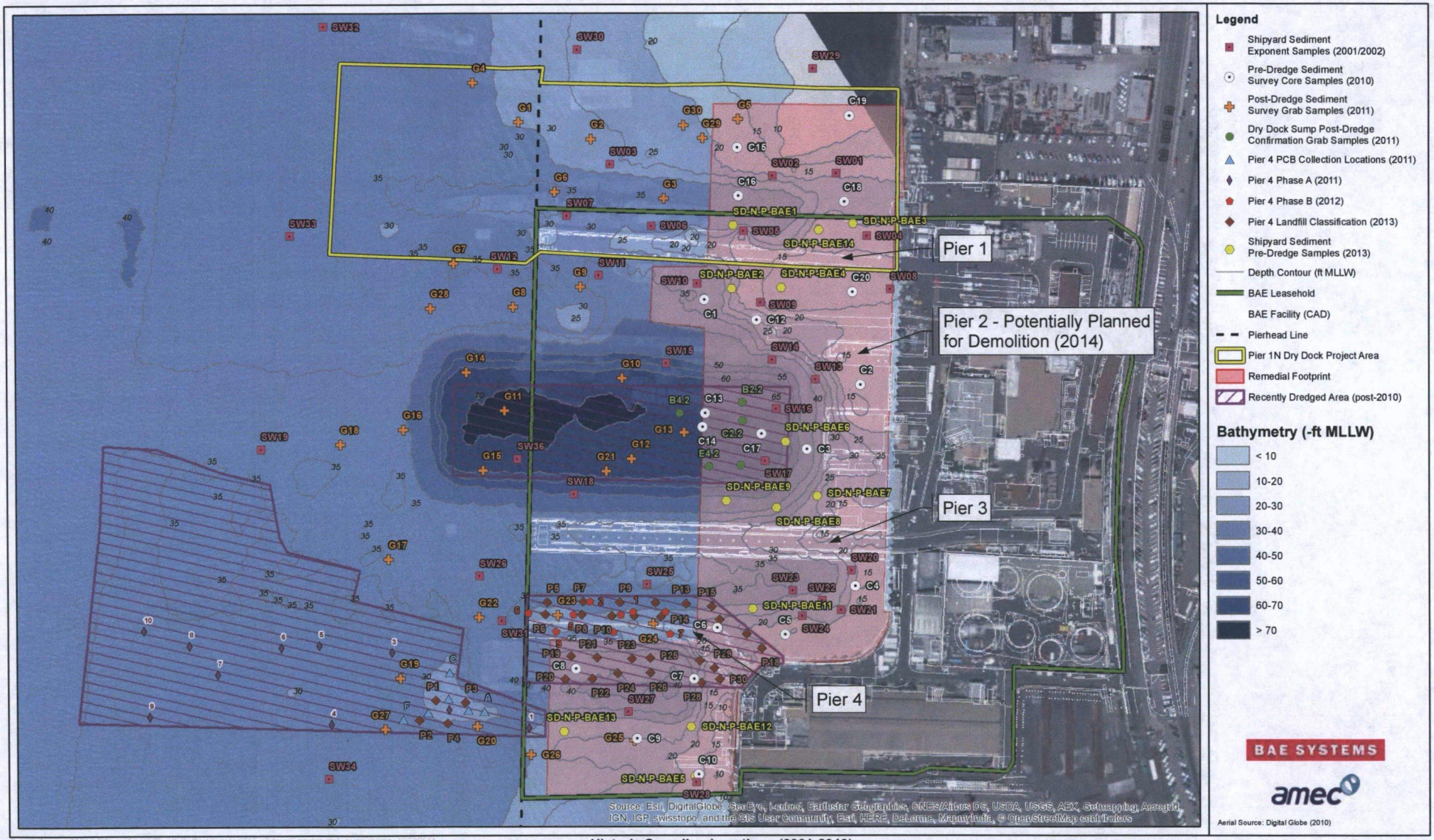

Historic Sampling Locations (2001-2013)
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE 2-2

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2.1.2 Pier 4 Replacement Project

In 2013 and 2014, BAE Systems demolished its outdated and seismically unsound Piers 4 and 5 and made plans to replace them with one new, modern Pier 4. The replacement project included deepening the approach and berthing areas at the new Pier 4. To evaluate the acceptable disposal options for the proposed dredged material, two sediment characterization studies were conducted: Phase A and B.

Phase A.
Phase A evaluated sediments within the area between the end of the new Pier 4 and the San Diego Bay Navigation Channel (the approach area). The study results are in the *Final Pier 4 Replacement Project Phase A Dredged Material Characterization Study, BAE Systems San Diego Ship Repair, San Diego Bay, San Diego California,* October 2011 (AMEC, 2011c). Most of the Phase A sediment (approximately 32,650 cy) was determined by the USACE and USEPA to be suitable for ocean disposal. A smaller portion (2,355 cy), in the northeastern area of the dredge footprint, was not acceptable for ocean disposal because there were elevated concentrations of total polychlorinated biphenyl (PCB) congeners in the sediment. It is important to note that the area of the Pier 4 Phase A footprint approved for ocean disposal is approximately the same distance off shore as portions of the proposed Project footprint (Figure 2-2). Ocean disposal dredging for the Pier 4 Replacement Project was completed in September 2014.

Phase B.
Phase B evaluated sediment in a dredge footprint on the north side of Pier 4, extending from approximately one quarter of the length of the pier southwest to the U.S. Pierhead Line. The Phase B study site covers approximately 35,300 square feet. The results are in the *Final Pier 4 Replacement Project Phase B Dredged Material Characterization Study, BAE Systems San Diego Ship Repair, San Diego Bay, San Diego California,* August 2012 (AMEC, 2012). The final dredge depth of the Phase B area is −35 ft MLLW, yielding a dredge volume of approximately 8,370 cy of sediment. For dredged material characterization, a 2-ft overdredge allowance was added to the proposed project design depth, which was an approximate overdredge volume of 2,950 cy.

The field sampling for the Phase B sediment characterization was completed in December 2011. The test results revealed that the Pier 4 Phase B dredged material did not meet the limiting permissible concentration (LPC) for unconfined aquatic disposal at the LA-5 ODMDS because of (a) total PCB congener concentrations; (b) amphipod survival; and (c) bivalve larvae toxicity. Sediments dredged as part of the Pier 4 Phase B project were approved for placement in the Otay Landfill. These sediments were dredged and transported to the landfill between April 20, 2013 and June 14, 2013.

BAE Systems' Pier 4 replacement project is currently ongoing and final completion of all construction activities is planned for February 2015.

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2.2 Cleanup and Abatement Order

As noted previously, a portion of the sediment in the BAE Systems proposed new dry dock sump is included in SDRWQCB CAO Number R9-2012-0024. Prior to initiating dredging for the proposed dry dock Project, all sediments within the CAO area will be remediated by the Shipyard Sediment Site Group. Project dredge material outside of the remedial footprint will be characterized prior to dredging of the CAO, and the remainder will be characterized after, as discussed in Section 4.3. The CAO area dredging for the North Shipyard (BAE Systems) began in September 2014 and is scheduled to complete by March 2016. Dredging of the CAO area overlying the proposed dry dock sump characterized during this study is planned to be completed by the third quarter of 2015. Dredging for the South Shipyard (NASSCO) was completed in January, 2014. All CAO Area dredging is planned to be completed by December, 2015.

The CAO chemicals of concern (COCs) and their cleanup levels are in Table 2-1. The dredging design depths for sediment management units (SMUs) in the CAO are based on the results of several earlier sediment characterization studies, performed between 2001 and 2013. The SMUs and their design depths and are shown in Figure 2-1.

The proximity of the proposed Project to the CAO area is depicted in Figure 2-1. Details of the CAO cleanup are in (a) the revised *Remedial Action Plan for the San Diego Shipyard Site* (Anchor QEA, October 2012); (b) the *Technical Report for Cleanup and Abatement Order No. R9-2012-0024 for the Shipyard Sediment Site, San Diego Bay, March* (SDRWQCB, 2012a); and (c) the *Final Environmental Impact Report, Shipyard Sediment Site Project, San Diego Bay, California* (SDRWQCB, 2012b).

As part of the CAO remediation, several sediment evaluations were completed in the BAE Systems leasehold that included sample collection near Pier 1. These evaluations were performed by Exponent Engineering and Scientific Consulting (Exponent, 2003) in 2001–2002 and by AMEC in 2011 (AMEC, 2011a); and 2013.

2001–2002 Exponent Sediment Investigation.
Details of the sediment collection and full analytical results for 2001–2002 are in *NASSCO and Southwest Marine Detailed Sediment Investigation, Volumes I–III* (Exponent, 2003). Samples collected for the 2001–2002 study that are within the proposed Project area are SW01, SW02, SW03, SW04, SW05, SW06, SW07, SW29, and SW30. Analytical data and core logs for relevant samples are in Appendix A-1 to the Project specific SAP.

2011 Dry Dock Sump Dredging Project (Located between Piers 2 and 3).
A data report was provided to BAE Systems by AMEC (2011c) for pre- and post-dredge sampling for the 2011 dry dock sump dredging project. As part of that effort, several samples were collected within the proposed new dry dock Project footprint north of Pier 1, including four vibracore samples (C15, C16, C18, and C19) and eight grab samples (G1, G2, G3, G4, G5, G6, G29, and G30). The collection data for these samples are in Appendix A-2 of the Project-Specific SAP; additional data are available upon request.

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Table 2-1.
CAO Sediment Chemicals of Concern
(SDRWQCB CAO Number R9-2012-0024 Post-Remedial Dredge Area Concentrations)

Primary Chemical of Concern	Post-Remedial Dredge Area Concentration (Background)
Copper	121 mg/kg
Mercury	0.57 mg/kg
High-Molecular-Weight Polycyclic Aromatic Hydrocarbons (HPAHs)[1]	663 µg/kg
Polychlorinated Biphenyls (PCBs)[2]	84 µg/kg
Tributyltin	22 µg/kg

Notes:
1. HPAHs = sum of six PAHs: fluoranthene, perylene, benzo(a)anthracene, chrysene, benzo(a)pyrene, and dibenzo(a,h)anthracene
2. PCBs = sum of 41 congeners: 18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, and 206

µg/kg = micrograms per kilogram; mg/kg = milligrams per kilogram

Additional 2011 post-dredge sampling results are in the technical report submitted by AMEC, *Final Technical Report Pre- and Post-Dredge Sediment Survey, BAE Systems San Diego Ship Repair, San Diego Bay, San Diego, California,* March 2011 (AMEC, 2011a). AMEC also performed post-dredge confirmation sampling in the portion of the dry dock sump that is within the CAO area, as reported in *BAE Systems San Diego Ship Repair Dry Dock Maintenance Dredging Project Post-Dredge Confirmation Report March* (AMEC, 2011b).

2013 Pre-Dredge Depth Verification Study and Landfill Approval.
In 2013, AMEC reported the analytical results of pre-dredge surveys (as part of the CAO remediation project) that were submitted to the landfill for approval. The submitted results package with data for the entire site will be provided upon request. Three samples collected in 2013 are within the proposed Project area (SD-N-P-BAE1, SD-N-P-BAE3, and SD-N-P-BAE14); analytical data and core logs for these samples are in Appendix A-3 of the Project-Specific SAP.

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3.0 COLLECTION LOCATIONS AND METHODS

Sampling and analysis procedures for this study were designed to satisfy the testing requirements described in the Green Book. These procedures were outlined in the project-specific SAP approved by the USACE and EPA in May 2014 (AMEC 2014). This section summarizes the approved methods employed to determine the suitability of the proposed Project dredged material for unconfined aquatic disposal.

3.1 Sediment Collection

Sediment collection followed the guidance provided in *Methods for Collection, Storage and Manipulation of Sediments for Chemical and Toxicological Analyses: Technical Manual* (USEPA 2001), and detailed in the SAP Submitted by AMEC to BAE Systems before collecting and testing samples (AMEC 2014). The sample collection was documented using vibracore logs and photography. Vibracore logs are in Appendix A and photographs of cores are in Appendix B.

Two types of sediment collection methods were employed for this study.

1. The unconsolidated sediments above the depth of refusal (i.e., above the native sediment layer) were collected with a vibracore sampling device. The sediments collected underwent full Tier III Green Book testing.
2. The sediments below the depth of refusal were collected using a barge-mounted soil boring sampler. These deeper, native sediment samples were collected primarily for geotechnical evaluation, but also underwent modified Green Book Tier II analyses (physical and chemical analysis).

3.1.1 Phased Sampling Approach

Sediment sampling within the proposed Project sump area was designed to take place in two phases (Figure 1-5). Phases are outlined as follows.

Phase 1 – Sample Collection Prior to CAO Dredging

Phase 1 consisted of (a) collection of 8 unconsolidated sediment core samples in Composite Areas A and B (4 cores per composite area)[1] for Green Book Tier III testing and (b) geotechnical evaluations of all native sediments (for Composite Areas A, B, and C) within entire dredge footprint for modified Green Book Tier II testing. Phase 1 elements will be completed prior to CAO dredging for the following reasons:

- The vast majority of the material to be dredged in the proposed Project footprint is located within Composite Areas A and B (outside of the CAO area) and the native sediment layer in Composite Area C. For overall project scheduling, BAE Systems needs to identify acceptable disposal options for the dredged material as soon as possible (by late 2014).

[1] During Phase 1 of the sediment characterization study, an additional core sample was collected in Composite Area A for volume.

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- Pier 1N improvements are planned to begin in late-2015. Disposal approvals for Composite Area A and B, and all native sediments are needed to begin permitting applications and support the environmental impact investigation.

Phase 2 – Sample Collection Following CAO Dredging

Due to the uncertainty associated with attempting to collect sediments between the bottom of the CAO cut depth and the proposed dry dock Project design depth, the remaining 4 core samples of the unconsolidated material will be collected in Composite Area C after CAO remediation dredging has been completed, if needed (Figure 4-1).[2] Composite Area C CAO area dredging of the unconsolidated sediment layer is estimated to begin in the third quarter of 2015.

- If a residual surface layer is left behind following CAO area dredging, 4 additional cores will be collected for Green Book Tier III analysis of the remaining unconsolidated material in Composite Area C. Once CAO area dredging is complete, a map and table showing the proposed Composite Area C sampling locations will be presented to the USACE and USEPA as an addendum to the Project SAP dated May 2014 (AMEC 2014).
- To supplement Composite Area C data, CAO area post-dredge sampling data and geotechnical information for Composite Area C will be included as part of the Composite Area C SAP addendum for agency consideration. Geotechnical data is also included in this report.

3.1.2 Sample Collection Locations

Vibracore Samples

Vibracore sample collection locations for Composite Areas A and B are listed in Table 3-1. To adequately characterize unconsolidated sediments within the two proposed dredge footprints for Phase 1 of the study, 9 vibracore samples in two separate composite areas were collected by AMEC from May 20 to May 21, 2014. Sediment sampling activities comprised sediment collection north of and bay ward of Pier 1 (Figure 3-1).

Vibracore sample collection stations were navigated to using a hand-held Trimble Juno® SB Series device aboard the survey vessel *M/V Early Bird II*. This device has a global positioning accuracy of approximately ±2–5 ft. The position of the *M/V Early Bird II* was anchored near each sampling location then adjusted on a fine scale until the desired position coordinates in Table 3-1 were reached. The vessel was secured over the collection location using the bow anchor and at least one stern line. Once the vessel was secure, AMEC scientists recorded the final sampling position and water depth (measured with a weighted fiberglass tape) in the Project field log. The water depth was corrected to MLLW using National Oceanographic and Atmospheric Administration (NOAA) tide tables and compared to the bathymetric data provided by BAE Systems to verify proper sampling locations.

[2] The TerraCosta geotechnical evaluation included in this report evaluates native material for the entire proposed Project footprint, including Composite Area C sediments.

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Table 3-1.
Vibracore Collection Log

Composite Area	Sample Location	Latitude (dd°mm.mmm)	Longitude (ddd°mm.mmm)	Collection Date	Time	Attempt	Mudline Elevation (feet MLLW)	Project Depth (feet MLLW)	Target Penetration (feet)[1]	Actual Penetration (feet)	Recovered Core Length (feet)	Refusal Depth (feet MLLW)	Subsamples	Comments
BAE Pier 1N Dry Dock Sump Dredging	BAE-P1-A-C1	32° 41.436'	-117° 08.836'	5/21/2014	745	1	-30.3	-65	Refusal	4.0	4.0	-34.3	None	Core is mostly sand.
					755	2	-30.7		Refusal	4.0	3.1	-34.4	None	Core is mostly sand, some gravel at base.
					850	3	-29.91		Refusal	5.0	3.0	-34.9	None	Core is mostly sand.
	BAE-P1-A-C2	32° 41.466'	-117° 08.823'	5/20/2014	750	1	-29.5		Refusal	7.0	4.6	-36.5	BAE-P1-A-C2-A 0.0-1.2 BAE-P1-A-C2-B 1.2-2.6 BAE-P1-A-C2-C 2.6-3.7 BAE-P1-A-C2-D 3.7-4.1	White shell hash at bottom of core.
					815	2	-29.8		Refusal	10.0	5.4	-39.8	BAE-P1-A-C2-E 3.8-5.3	Collected subsample of native layer deeper than last core (below white shells).
	BAE-P1-A-C3	32° 41.429'	117° 08.824'	5/21/2014	910	1	-34.8		Refusal	4.0	1.2	-38.8	None	Possibly losing some sample on retrieval, core is mostly sand.
					925	2	-34.9		Refusal	5.0	1.2	-39.9	None	Material seems very clean, mostly sand. No recovery of deeper layer; possible deeper layer is less dense?
					945	3	-34.7		Refusal	4.0	1.4	-38.7	None	Core is mostly sand with a layer of gravel.
					1000	4	-34.8		Refusal	7.0	1.4	-41.81	None	Core is mostly sand. Moved vessel 10' north towards bridge before sampling 3rd attempt. Moving toward ship to sample 4th attempt.
	BAE-P1-A-C4	32° 41.456'	-117° 08.817'	5/20/2014	930	1	-30.3		Refusal	8.0	5.6	-38.3	BAE-P1-C4-A 0.0-2.4 BAE-P1-C4-B 2.4-4.0 BAE-P1-C4-C 4.0-5.6	White shell hash at base.
					950	2	-30.9		Refusal	7.0	5.0	-37.9	None	White shell hash at base.
	BAE-P1-A-C4-A	32° 41.443'	-117° 08.825'	5/21/2014	1100	1	-32.6		Refusal	4.0	1.0	-36.6	None	Added site for volume collection, content of core is mostly sand and gravel.
	BAE-P1-A-C4-A	32° 41.445'	-117° 08.823'	5/21/2014	1105	2	-31.6		Refusal	4.0	2.5	-35.6	None	Core is mostly sand and gravel. Relocated 10' east toward shore for this attempt.
					1130	3	-32.1		Refusal	5.5	2.0	-37.6	None	Refusal due to large rocks. Sleeve was stuck in barrel. Core barrel broke on retrieval. Core is mostly sand and gravel.
					1200	4	-32.4		Refusal	4.0	2.4	-36.4	None	Core is mostly sand and gravel with some shell hash.

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Table 3-1.
Vibracore Collection Log

Composite Area	Sample Location	Latitude (dd°mm.mmm)	Longitude (ddd°mm.mmm)	Collection Date	Time	Attempt	Mudline Elevation (feet MLLW)	Project Depth (feet MLLW)	Target Penetration (feet)[1]	Actual Penetration (feet)	Recovered Core Length (feet)	Refusal Depth (feet MLLW)	Subsamples	Comments
BAE Pier 1N Dry Dock Sump Dredging	BAE-P1-B-C1	32° 41.486'	-117° 08.809'	5/20/2014	1310	1	-30.2		Refusal	7.5	6 3	-37.7	BAE-P1-B-C1-A 0.0-2.0 BAE-P1-B-C1-B 2.0-3.5 BAE-P1-B-C1-C 3.5-5.1 BAE-P1-B-C1-D 5.1-6.3	Windy, odors difficult to sense. Shell hash in core sample increases with depth.
					1330	2	-25.9		Refusal	8.0	6.0	-33.9	None	Shell hash in core sample increases with depth.
	BAE-P1-B-C2	32° 41.501'	-117° 08.798'	5/20/2014	1430	1	-24.9		Refusal	10.0	8.5	-34.9	BAE-P1-B-C2-A 0.0-4.9 BAE-P1-B-C2-B 4.9-6.7 BAE-P1-B-C2-C 6.7-8.5	Pocket (about 0.5') of coarser and lighter colored material in silt at surface. Shell hash in core sample increases with depth.
					1520	2	-23.8		Refusal	10.5	6.8	-34.3	None	No subsamples. Pocket (about 0.5') of coarser and lighter colored material in silt at surface. Shell hash in core sample increases with depth.
	BAE-P1-B-C3	32° 41.480'	-117° 08.798'	5/20/2014	1100	1	-28.8		Refusal	9.0	7.9	-37.8	BAE-P1-B-C3-A 0.0-3.1 BAE-P1-B-C3-B 3.1-5.7 BAE-P1-B-C3-C 5.7-6,9 BAE-P1-B-C3-D 6.9-7.9	Shell hash in core sample increases with depth.
					1115	2	-28.4		Refusal	9.0	5.5	-37.4	None	Shell hash in core sample increases with depth.
	BAE-P1-B-C4	32° 41.507'	-117° 08.774'	5/20/2014	1600	1	-24.1		Refusal	5.0	4.5	-29.1	BAE-P1-B-C4-A 0.0-3.2 BAE-P1-B-C4-B 3.2-4.5	No plug. Shell hash in core sample increases with depth.
					1615	2	-23.4		Refusal	7.5	4.7	-30.9	None	Shell hash in core sample increases with depth.

Notes:
[1] - Refusal was estimated at approximately 10 feet of penetration. This value was based on previous studies near the Project footprint.
MLLW = mean lower low water, dd/ddd° mm mmm = degrees decimal minutes

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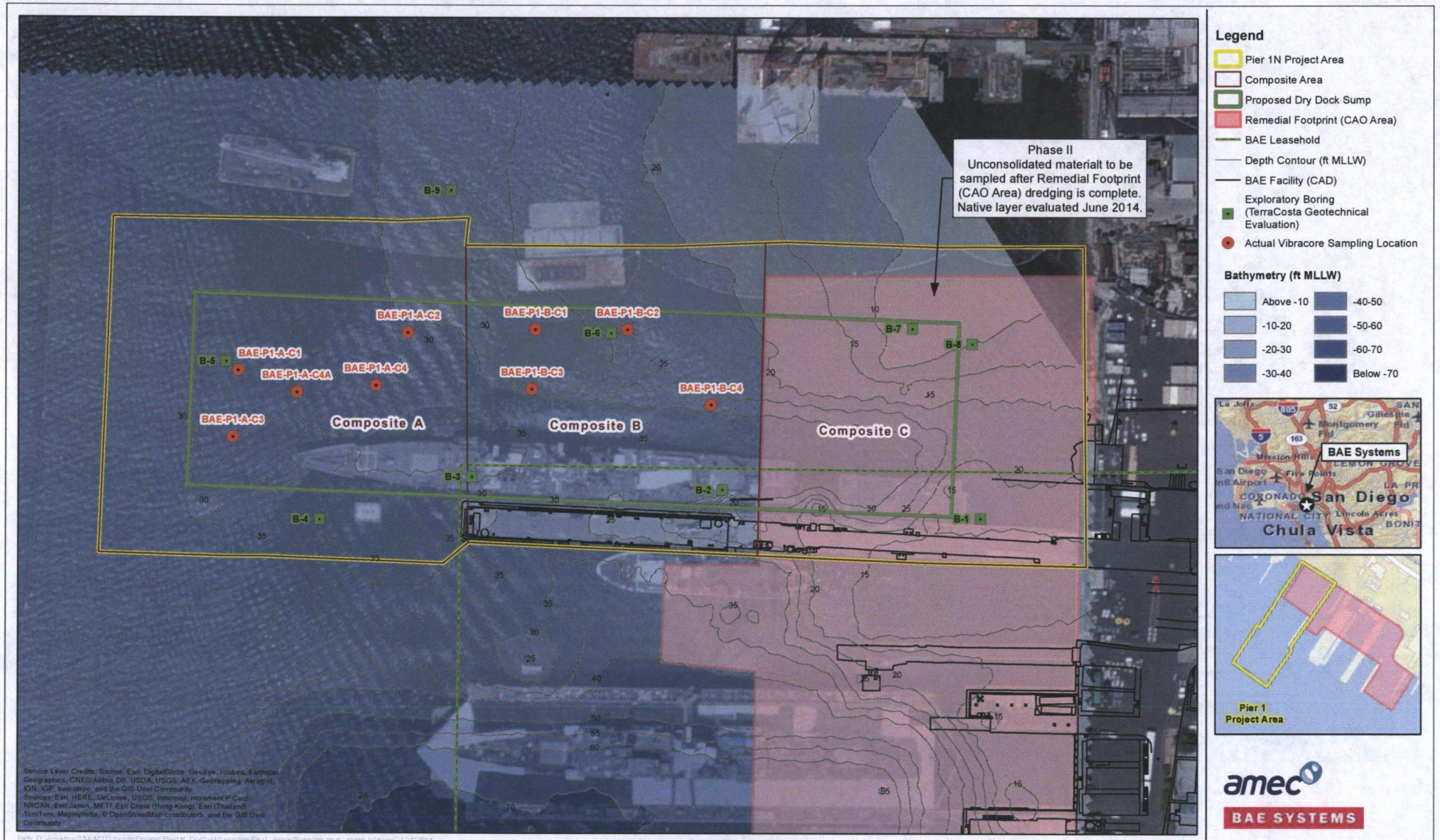

Actual Sampling Locations
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

1 inch = 100 feet
0 50 100 Feet

FIGURE 3-1

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Geotechnical Samples

Nine geotechnical borings were collected by TerraCosta between June 17 and June 27, 2014 using a Pacific Drilling Diedrich D50 drilling rig with 6-inch hollow-stem augers mounted to a R.E. Staite (RES) barge. Sampling locations were chosen for proposed Project engineering design purposes. Geotechnical boring locations were navigated to by a RES barge operator and adjusted on a fine scale according to a handheld GPS. TerraCosta scientists recorded the final sampling position and water depth (measured with a weighted fiberglass tape) in the Project geotechnical field log. The water depth was corrected to MLLW using predicted tides. Table 3-2 contains location information and penetration depths for the nine geotechnical borings.

Table 3-2.
Geotechnical Boring Locations and Depths

Boring Number	Latitude	Longitude	Maximum Penetration Depth (feet MLLW)
B-1	32°41.538	-117°08.721	-70.5
B-2	32° 41.500	-117°08.757	-102
B-3	32° 41.462	-117°08.789	-103
B-4	32° 41.434	-117°08.799	-111
B-5	32° 41.435	-117°08.839	-75.5
B-6	32° 41.498	-117°08.799	-66.0
B-7	32° 41.546	-117°08.764	-104
B-8	32° 41.554	-117°08.754	-90.5
B-9	32° 41.487	-117°08.844	-61.5

Notes:
MLLW = mean lower low water.

3.1.3 Test Sediment Collection

Vibracore Samples

Vibracore logs are included as Appendix A-1. All vibracore collection locations were sampled as described in the SAP (BAE Systems, 2014). Vibracore samples were collected by TEG Oceanographic Services (TEG) staff. Trained TEG equipment technicians deployed the vibracore used to collect sediment samples. The vibracore uses a 4-inch-diameter aluminum tube connected to a stainless steel cutter. The aluminum-encased vibrating unit uses 240-volt, 3-phase, 26-ampere electricity to drive two counter-rotating concentric vibrators. For this Project, the vibracore and tube were lowered by a hydraulic winch and vibrated until penetration to the maximum allowable depth (refusal) was achieved. Vibracore penetration depth was determined using a tape measure attached to the vibracore head. After the vibracore was turned off, the sediment core was returned to the boat's deck for processing. Once onboard, vibracore samples were carefully extruded into clean, polyethylene-lined trays, photographed, and inspected for unique strata, color, odors, etc.

Geotechnical Samples

Geotechnical boring logs are included as Appendix A-2. Sampling specifics related to the geotechnical evaluation were provided to BAE Systems by TerraCosta under a separate cover (TerraCosta 2014). All geotechnical borings were penetrated to the project depth plus the overdredge allowance (-66 ft MLLW) or deeper in all three composite areas.

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3.1.3.1 Sampling Limitations

Overall there were very few sampling limitations for this project; any limitations are described in this section.

Vibracore Collection Locations
Vibracore collection locations were proposed to avoid a U.S. Navy ship berthed for repairs at Pier 1N. In the field, extra precaution was taken by the boat captain to not enter the ships security perimeter. Final sampling locations were collected as close as possible to the proposed coordinates.

Vibracore Refusal
Vibracore sediment samples were collected to the depth of refusal, or the depth at which the vibracore could no longer penetrate. To account for this, the target penetration depth in Table 3-1 is listed as "refusal." It is common when performing vibracore operations in San Diego Bay to encounter a dense layer of consolidated native material, which the vibracore will not penetrate. This native material is often assumed to be part of the Bay Point Formation. The Bay Point Formation consists of poorly-cemented, light gray to brown cross-bedded fine and medium grain sands, sometimes with shell hash (Hertlein and Grant, 1939). When the Bay Point, or another native layer, is encountered, it typically leaves a plug of hard material in the core cutter and farther penetration is refused. The presence of the plug in the extracted core material verifies the native refusal depth. Native refusal typically represents the extent of recently deposited, mostly unconsolidated, bay muds and indicates that further attempts of collection to the design and OD depth are unnecessary.

During this sediment characterization study, all sediment samples were penetrated to the depth of refusal which was estimated at approximately 10 feet below the mudline based on prior studies performed in the vicinity of the proposed Project. Refusal depends upon the substrate encountered; usually harder, more compact, and dense material (such as clay or consolidated sand) causes refusal. The actual penetration depth in Table 3-1 is the actual penetration of the vibracore into the sediment for each attempt. Maximum penetration achieved during the proposed Project vibracore sampling event was 10.5 feet (Table 3-1).

To characterize material below the depth of refusal in all three Composite Areas, this study also analyzed supplemental samples collected during the geotechnical evaluation. These samples were collected within the dredge footprint as part of the engineering design for the Project. All geotechnical samples analyzed for this sediment characterization report were collected below the depth of vibracore refusal (Tables 3-1 and 3-2).

Vibracore Compaction and Recovery Length
Table 3-1 also contains an overview of positioning, sample collection times, mudline elevations, project depths, target penetration depths, actual penetration depths, analysis lengths, total volume collected, and general notes for each core sample.

Recovered core length refers to the length of the core extracted from the vibracore tube and subjected to chemical and bioassay analysis. This length represents the full vertical penetration length of the vibracore, but seldom exactly matches the target penetration depth. This is due to

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several factors: (a) compaction in the core barrel because of unconsolidated material collected at the sediment surface, which is pressed down at its surface by the weight of the overlying water and pressed up by the sediment entering the barrel; (b) a hard plug in the core barrel, which acts as a hammer into the substrate and prevents sediment from entering the core barrel until a harder material is encountered; (c) friction between the sediments and the sides of the core barrel, which also cause smearing and compaction, primarily around the outside diameter of the core; and (d) settling of material due to the vibration of the vibracore during penetration.

As observed in other studies that used a vibracore for sediment collection, compaction within the core barrel is a common occurrence, and can be calculated based on a ratio between the recovered core length and actual penetration length.

Additional Core Sample Collected for Volume
Due to core compaction and poor recovery in Composite Area A, an additional vibracore sample was penetrated within the proposed Project footprint to obtain additional volume for bioassay and bioaccumulation analysis. This sample, BAE-A-C4A, was collected in the middle of the proposed Composite A area, to the west of sample BAE-A-C4.

3.1.3.2 Reference Sediment Collection

Reference sediment was collected by Seaventures, Inc. using a pipe dredge on May 19, 2014 at a designated reference sediment collection site (latitude 33° 46.00' North, longitude 117° 22.75' West) near the LA-5 ODMDS. This site has been used for numerous dredged material studies and has a sediment quality that is acceptable to the USACE and USEPA (Figure 1-4).

3.1.3.3 Control Sediment Collection

Negative control sediments were used for both the SP toxicity tests and the BP test. The negative control sediments ("home" sediments) were collected at the same location and time as the test organisms by the test organism supplier and sent to the toxicity testing laboratory, along with each batch of test organisms.

3.1.4 Sample Collection Documentation, Handling, and Delivery

Sample documentation followed procedures included in the Project SAP. Vibracore field logs are provided in Appendix A-1.

The integrity of each sample from the time of collection to the point of data reporting was maintained throughout the study by recording accurate core logs, filling out chain-of-custody forms at the time of sample collection, and photographically documenting each core and collection attempt. All samples were maintained at the appropriate temperature throughout transport.

Vibracore Samples
Individual composite samples and subcomposite samples were delivered to the analytical laboratory in labeled 16-ounce and 8-ounce glass jars and plastic bags. The samples were transferred from AMEC to Eurofins Calscience Environmental Laboratories (Eurofins

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Calscience) in coolers on wet ice via courier. All sediment samples were held in a cold room maintained at 4 degrees Celsius (4°C) until analytical, toxicity, and bioaccumulation tests were initiated. Nautilus Environmental LLC. (Nautilus) is currently holding the remainder of the sediment in a 4°C room for up to one year in case further testing is required.

Geotechnical Samples

Geotechnical samples were delivered to AMEC by TerraCosta scientists at the end of each field day. The majority of the samples were delivered in jars or Shelby tubes on ice. Sample documentation included a daily field log recorded by TerraCosta and transferred to AMEC with each daily sample delivery.

Tissue Samples

Tissue samples were immediately frozen upon removal from the test organism. Archives of tissue samples are still frozen at Eurofins Calscience for the same purpose. Tissue samples from animals exposed to bioaccumulation test chambers were also sent on wet ice via courier from Nautilus to Eurofins Calscience for analytical testing after the 28-day exposure period.

3.1.5 Test Sediment Compositing

Vibracore Samples

On the survey vessel, each of the 9 sediment samples was logged and photographed separately. Once an individual core was extracted from the vibracore sampler and logged, the bottom 0.5 foot layer, representing the transition layer between the unconsolidated bay muds and the "native" material below the depth of refusal, was removed and archived separately from the remainder of the core. These samples (appended with a "Z" i.e. BAE-A-C1-Z) were archived until the end of the sample collection event so that they could be homogenized with other transition layer samples, as appropriate, for analysis.

At the end of the sampling event, the transition layer samples were composited based on similarity in grain size and other physical characteristics (i.e. the presence of shell hash). The four subcomposites were created as follows:

1. Subcomposite A1 = BAE-A-C2-Z and BAE-A-C4-Z,
2. Subcomposite A2 = BAE-A-C1-Z and BAE-A-C3-Z,
3. Subcomposite B1 = BAE-B-C2-Z and BAE-B-C4-Z,
4. Subcomposite B2 = BAE-B-C1-Z and BAE-B-C3-Z.

In addition, each of the sediment samples collected the 9 individual collection locations were homogenized separately in clean, non-contaminating stainless steel mixing vessels, and subsampled to create archives for potential future analysis. Individual core archives are being held at AMEC for up to 1 year (until May 22, 2015).

The remainder of sediment from each core was sealed into teflon bags and placed in coolers on wet ice to maintain the sample temperature at 4°C. Once all of the proposed samples were collected, the sediment was composited by qualified AMEC scientists aboard the *M/V Early Bird II*.

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Two area composites were prepared, as follows:

1. Composite A = core samples BAE-A-C1, BAE-A-C2, BAE-A-C3, BAE-A-C4, and BAE-A-C4A,
2. Composite B = core samples BAE-B-C1, BAE-B-C2, BAE-B-C2, and BAE-B-C4

The two vibracore area composite samples were made by combining sediment collected at each of the individual core collection locations according to composite area and thoroughly homogenizing them using a cement mixer with a specialized stainless steel propeller attachment. The resulting composite sample was then subsampled for physical and chemical analyses as well as archiving, and the remainder was sent to Nautilus for bioassay testing.

Geotechnical Samples

At the end of the geotechnical evaluation, TerraCosta and AMEC scientists collaborated to determine which samples could be frozen to preserve the samples for potential chemical testing. Based on this discussion, AMEC froze a subset of the samples. If a sample had not been kept on ice immediately following collection, it was not considered for further analytical testing; however, all geotechnical samples provided by TerraCosta were subsampled for potential grain size analysis prior to freezing.

Once the geotechnical team provided draft boring logs (included as Appendix A-2), AMEC sorted the samples according to sediment type and approximate age (as determined by a TerraCosta registered geologist). After consideration of the geotechnical boring logs, three sample composites were proposed to and accepted by BAE Systems for additional chemical analysis as follows:

1. BAE-GT-Comp A – Recent Bay/Holocene Deposits to Young Quaternary Deposits
2. BAE-GT-Comp B – Young Quaternary Deposits to Older Quaternary Deposits
3. BAE-GT-Comp C – Older Quaternary Deposits to -65 ft MLLW.

Each geotechnical composite was created by Eurofins Calscience using boring samples that represented the vertical and horizontal limits for each native strata within the proposed Project dredge footprint. In addition, 17 geotechnical samples and all 9 individual vibracore samples were submitted for grain size analysis (Table 3-3). Grain size analysis will be used to determine beneficial reuse potential of the sediments within the proposed Project dredge footprint.

Table 3-3 is a list of samples collected for the geotechnical study that were submitted to Eurofins Calscience for chemical and physical testing.

3.1.6 Sample Analysis

AMEC coordinated the sediment analysis portion of this study using the tiered approach outlined in the Green Book. First, sediment chemistry and grain-size analysis on the two composite samples, four subcomposite samples, and the LA-5 reference sediment was evaluated. Second, bioassay testing and bioaccumulation exposures for all sediments in the

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proposed Project footprint was performed by Nautilus. Finally, tissue bioaccumulation chemical analysis was performed by Eurofins Calscience and evaluated by qualified AMEC scientists.

Table 3-3.
Geotechnical Samples Submitted for Additional Testing[1]

Sample	Approximate Sample Collection Depth (feet MLLW)[2]	Approximate Age/Strata
Grain Size Analysis		
B-1-1	-10.5	Recent Bay Deposits
B-1-5	-30.5	Younger Quaternary Deposits
B-1-9	-50.5	Younger Quaternary Deposits
B-2-5	-57.0	Younger Quaternary Deposits
B-3-1	-38.5	Recent Bay Deposits
B-4-6	-60.5	Younger Quaternary Deposits
B-5-1	-35.5	Recent Bay Deposits
B-5-3	-45.5	Holocene Deposits
B-5-8	-65.5	Younger Quaternary Deposits
B-6-3	-36.0	Younger Quaternary Deposits
B-6-5	-46.0	Younger Quaternary Deposits
B-6-8	-61.0	Older Quaternary Deposits
B-7-1	-14.0	Recent Bay Deposits
B-7-4	-29.0	Younger Quaternary Deposits
B-7-6	-39.0	Younger Quaternary Deposits
B-7-8	-49.0	Younger Quaternary Deposits
B-7-11	-64.0	Older Quaternary Deposits
Composite A		
B-2-1	-37.0	Recent Bay/Holocene Deposits
B-4-2	-40.5	
B-4-4	-50.5	
B-5-3	-45.5	
B-5-5	-55.5	
Composite B		
B-1-3	-20.5	Younger Quaternary Deposits
B-1-7	-40.5	
B-2-3	-47.0	
B-2-6	-62.0	
B-4-6	-60.5	
B-5-8	-65.5	
B-6-3	-36.0	
B-6-6	-51.0	
B-7-4	-29.0	
B-7-6	-39.0	
B-7-9	-54.0	
Composite C		
B-1-11	-60.5	Older Quaternary Deposits to -65 feet MLLW
B-6-7	-56.0	
B-6-8	-61.0	
B-7-11	-64.0	

Notes:
1. Additional samples were submitted for grain size and other geotechnical analysis by TerraCosta. These included samples B-1-3, B-1-7, B-1-11, B-2-1, B-2-3, B-2-9, B-3-5, B-3-7, B-3-9, B-4-1, B-4-4, B-4-9, B-4-11, B-8-4, B-8-6, B-8-11, and B-9-5.
2. Approximate sample collection depth represents the bottom of a 1.5 foot long sample collected approximately every 5 feet using either a 2-inch outside diameter "Standard Penetration Test" (SPT) sampler and a 3-inch outside diameter "California Sampler" (C).
MLLW = mean lower low water

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3.1.7 Physical and Chemical Analyses

Eurofins Calscience, a California-accredited laboratory, conducted all physical and analytical chemical analyses on sediment and tissue samples. Samples were analyzed according to USEPA- and USACE-approved methods for the constituents listed in Table 3-4. Routine laboratory quality assurance/quality control (QA/QC) procedures included duplicate sample analyses, reagent blanks, and spiked samples according to EPA methods.

Grain-size analysis was also performed by Eurofins Calscience on each of the 8 proposed individual core samples, the two composite samples, the four subcomposite samples, and 17 individual geotechnical samples. Eurofins Calscience used an approved laser technique (American Society for Testing and Materials [ASTM] D4464) for grain-size analysis. The percentages of gravel, sand, silt, and clay were reported to 0.1 percent, along with the corresponding millimeter and phi sizes, and plotted on a cumulative grain-size distribution diagram.

All analytical laboratory reports for sediment analysis are in Appendix C; analytical laboratory reports for tissue are in Appendix E.

3.1.7.1 Toxicity and Bioaccumulation Exposure Tests

Environ conducted all toxicity and bioaccumulation testing following the USEPA- and USACE-approved methods outlined in the Green Book and the *Inland Testing Manual* (ITM) (USEPA/USACE, 1991, 1998). Per the Green Book and the ITM, the maximum holding time before beginning sediment toxicity and bioaccumulation testing is six to eight weeks. All sample testing was begun within the approved holding time.

The toxicity and bioaccumulation analyses and the testing periods were as follows:

- SPP toxicity testing:
  - Bivalve embryos, *Mytilus galloprovincialis* (June 12 through 14, 2014),
  - Fish larvae *Menidia beryllina* (June 10 through 14, 2014), and
  - Mysid shrimp *Americamysis bahia* (June 10 through 14, 2014);
- SP toxicity testing:
  - Marine amphipod *Ampelisca abdita* (June 3 through 13, 2014) and
  - Marine polychaete worm *Neanthes arenaceodentata* (May 30 through June 9); and
- 28-day BP testing (June 11 through July 8, 2014):
  - Bent-nose clam (*Macoma nasuta),* and
  - Marine polychaete worm (*Neanthes (*formerly *Nereis) virens).*

SP and BP tests were conducted on the two composite area samples, reference site sediment, and control site sediment. SPP tests were carried out on elutriates from the 2 composite areas and a filtered laboratory control water for comparison. Toxicity and bioaccumulation exposure tests were conducted in accordance with the proposed Project SAP. Further information on toxicity and bioaccumulation testing methods is in the Nautilus report, in Appendix D.

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Table 3-4.
Chemical Analyses for Sediment and Tissue Samples

Analyte	Analysis Method	Sediment Target Reporting Limit[a, b]	Tissue Target Reporting Limit[a, b]
Grain Size	ASTM D4464	0.1 %	NA
Total Solids	160.3/SM 2540 B	0.1 %	0.100 %
Total Organic Carbon	9060A	0.1 %	NA
Total Ammonia	SM 4500-NH_3 B/C (M)[c]	0.2 mg/kg	NA
Total Sulfides	376.2M[c]	0.5 mg/kg	NA
Soluble Sulfides	376.2M[c]	0.5 mg/kg	NA
Oil & Grease	413.2M	10 mg/kg	NA
Arsenic	6020[d]	0.1 mg/kg	0.1 mg/kg
Cadmium	6020[d]	0.1 mg/kg	0.1 mg/kg
Chromium	6020[d]	0.1 mg/kg	0.02 mg/kg
Copper	6020[d]	0.1 mg/kg	0.1 mg/kg
Lead	6020[d]	0.1 mg/kg	0.1 mg/kg
Mercury	7471A[d]	0.02 mg/kg	0.02 mg/kg
Nickel	6020[d]	0.1 mg/kg	0.1 mg/kg
Selenium	6020[d]	0.1 mg/kg	0.1 mg/kg
Silver	6020[d]	0.1 mg/kg	0.1 mg/kg
Zinc	6020[d]	1.0 mg/kg	1.0 mg/kg
Total Lipids	NOAA 1993[i]	NA	0.1 %
Total Recoverable Petroleum Hydrocarbons	418.1M[d]	10 mg/kg	NA
Total Petroleum Hydrocarbons (C6–C44)	8015B(M)[d]	5.0 mg/kg	NA
Polycyclic Aromatic Hydrocarbons[e]	8270C SIM[d]	10 µg/kg	10 µg/kg
Chlorinated Pesticides[f]	8270C SIM/8081A[d]	1.0–20 µg/kg[k]	0.5–20 µg/kg
Polychlorinated Biphenyl Congeners[g]	8270C SIM[d]	0.5 µg/kg	0.5 µg/kg
Phenols	8270C SIM[d]	10–500 µg/kg	NA
Pyrethroids	GC/MS/MS[j]	0.5–1.0 µg/kg	NA
Phthalates	8270C SIM[d]	10 µg/kg	NA
Organotins	Krone, et al.[h]	3.0 µg/kg	NA

Notes:
a. Sediment minimum detection limits are on a wet-weight basis; tissue minimum levels are on a wet weight basis.
b. Reporting limits are provided by Calscience Environmental Laboratories, Inc.
c. *Standard Methods for the Examination of Water and Wastewater*, 19th Edition, American Public Health Association et al., 1995.
d. USEPA, 1986–1996. SW-846. Test Methods for Evaluating Solid Waste, *Physical/Chemical Methods*, 3rd Edition.
e. Includes naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene
f. Includes aldrin, benzene hexachloride (BHC), α-BHC, β-BHC (lindane), ¥-BHC, chlordane, 2,4- and 4,4-dichlorodiphenyldichloroethane (DDD), 2,4- and 4,4-dichlorodiphenyldichloroethylene (DDE), 2,4- and 4,4-dichlorodiphenyltrichloroethane (DDT), dieldrin, endosulfan I and II, endosulfan sulfate, endrin, endrin aldehyde, heptachlor, heptachlor epoxide, and toxaphene
g. Polychlorinated biphenyls (PCBs) (sum of 41 congeners: 18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, and 206)
h, Krone, C.A., D.W. Brown, D.G. Burrows, R.G. Bogar, S.L. Chan, and U. Varanasi, 1989. A Method for Analysis of Butyltin Species and Measurement of Butyltins in Sediment and English Sole Liver from Puget Sound. *Marine Environmental Research* 27: 1–18.
i. National Oceanic and Atmospheric Administration. 1993. Sampling and Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects, 1984–1992, Volume IV, *Comprehensive Descriptions of Trace Organic Analytical Methods,* July.
j. Allethrin (bioallethrin), bifenthrin, cyfluthrin-beta (baythroid), cypermethrin, deltamethrin (tralomethrin), fenpropathrin (danitol), esfenvalerate, fenvalerate (sanmarton), fluvalinate, lambda-cyhalothrin, permethrin (cis and trans), sumithrin (phenothrin), resmethrin (bioresmethrin), and tetramethrin, and transpermethrin(C13)
k. Except toxaphene, which is 1,000 micrograms per kilogram (parts per billion)
% = percent; µg/kg = micrograms per kilogram (parts per billion); EPA = (U.S. Environmental Protection Agency; GC = gas chromatography; L = liter; (M) = modified; mg/kg = milligrams per kilogram; mg/L = milligrams per liter (parts per million); NA = not applicable; ng/L = nanograms per liter; SIM = selective ion monitoring; SM = Standard Method; TOC = total organic carbon

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4.0 ANALYTICAL RESULTS

The sediment results of this study evaluate the potential for chemical contaminants in the sediment to cause adverse effects during dredging or disposal. Physical characteristics of the sediment are summarized in Tables 4-1 and 4-2. Sediment chemistry results reported in dry weight are summarized in Tables 4-3 and 4-4. Analytical laboratory results for physical and chemical analysis of sediments are included in the Eurofins Calscience reports in Appendix C.

4.1 Physical Analysis

Grain-size analysis was performed on individual vibracore samples, the vibracore composite area samples, all four subcomposite/transition layer samples, representative geotechnical boring samples, and three composite samples created of the native subsurface sediments (see Table 3-3 for a list of analyzed geotechnical samples). Mean grain sizes and grain size distribution percentages for each sample analyzed are detailed in Tables 4-1 and 4-2.

Vibracore Samples

Grain-size results for the two vibracore composite samples indicate that Composite A is dominantly sand (81.3 percent) while Composite B contains zero percent sand and is classified as silt (77.2 percent silt, 22.8 percent clay, Table 4-1). Conversely, the two subcomposite samples for Composite B both classify as coarse sand (mean grain size 0.559 millimeters [mm] and 0.652 mm for Subcomposite-B1 and B2, respectively), which may be partially due to the presence of shell hash and gravel in the transition layer between the unconsolidated (recent bay deposits) and native sediments within the Project footprint (Figure 4-1). Subcomposite samples for Composite Area A were both medium sand. All four of the subcomposite samples contain proportions of sand 83.2 percent or greater.

Seven of the nine individual core samples classify as very fine and fine sand commensurate on mean grain size, the remaining two samples (BAE-P1-A-C4A and BAE-P1-B-C4) classify as silt. Generally, sand percentages are less in the individual core samples than the transition layer samples, ranging between 0.00 and 80.4 percent (average 23.7 percent sand). The average sand content in the individual core samples is 23.7 percent (33.3 percent for Composite Area A, and 11.8 percent in Composite Area B). Core sample BAE-P1-A-C3 is the only sample containing greater than 80 percent sand.

Mean grain sizes from composite area samples are coarser than the LA-5 reference sediment (mean = 0.047 mm) for Composite Area A (mean = 0.217 mm), but finer for Composite Area B (mean = 0.014 mm). In addition, the mean grain size of all individual core samples (except BAE-P1-B-C4) are coarser than the LA-5 reference sediment (range 0.018 to 0.210 mm). Control sediment for *E. estuarius* and *M. nasuta/N. virens* home sediments are also coarser compared to the LA-5 reference sediment. The mean grain size of Composite A is similar to the control sediments, while the mean grain size for Composite B is much finer.

Geotechnical Samples

Approximately half of the geotechnical samples contain relatively low proportions of sand (less than 50 percent). Only one of the samples chosen for analysis, sample B-5-3, contains more

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than 80 percent sand (Table 4-2). The average percent of sand in the geotechnical samples is 18.0 percent and the average percent of fines (silt and clay) is 79.3 percent. Mean grain sizes range between 0.006 and 0.900 mm. The samples with a mean grain size of 0.900 mm (B-7-8) and 0.531 mm (B-7-11; 15 feet deeper than B-7-8), contain high proportions of gravel (29.8 and 17.1 percent, respectively). All other samples analyzed for grain size from the geotechnical evaluation except B-5-3 contain little to no gravel, very coarse, coarse, or medium grained sand.

4.2 Bulk Sediment Chemistry Analysis

Samples were analyzed for the full suite of chemical analytes listed in Table 3-4. Once the sediment compositing proposed in the Project-specific SAP was completed (as described in Section 3.1.5), representative subsamples were sent to Eurofins Calscience for chemical analysis. Analytical chemistry results are summarized in Table 4-3 for vibracore sample composites and subcomposites, and Table 4-4 for geotechnical sample composites. Full sediment chemistry reports for all analysis are in Appendix C. In addition, Figures 4-2a, 4-2b, and 4-2c contain cross sections with analytical result summaries for both vibracore and geotechnical boring composite samples.

4.2.1 Sediment Quality Guidelines

The sediment chemical analysis results presented in Table 4-3 and 4-4 are compared to the effects range-low (ERL) and effects range-median (ERM) sediment quality guidelines as a relative measure of sediment quality (Buchman, 2008). These benchmark values for sediment quality were developed at NOAA, using a variety of guideline values to screen sediment results for evaluating potential effects on sediment-associated biota. The ERL and ERM guideline values were derived by matching chemical and biological data.

The ERL values represent the lower-tenth-percentile concentration, and ERM values represent the median concentration, at which statistically significant biological effects were reported. These values were calculated using a large database of study results, including laboratory- and field-generated data for many endpoints for species and biological effects. In summary, the ERL values are concentrations below which biological effects are rarely expected to occur and ERM values are concentrations above which biological effects are likely expected to occur (Buchman, 2008). Because of the wide range of site-specific factors that may influence the toxicity and bioavailability of any given compound in the sediment, these guidelines are not intended as strict criteria for regulatory application, but rather as a general screening gauge.

4.2.2 Vibracore Samples

Bulk sediment chemistry for the Project was evaluated for sediments that represent the most recent bay deposits. Vibracore penetration was between 4.0 and 10.5 feet below the bay floor surface (from approximately -29.1 to -41.81 feet MLLW) at various locations within the Project footprint) before refusal was met (Table 3-1, Figure 4-2a and 4-2b). Sample composites were created as per the SAP. Subcomposites (described in Section 3.1.5) of the transition layer between the recent bay deposits and the native sediments were created based on similarities in physical sample characteristics (e.g. grain size, shell hash, color).

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Figure 4-1. Transition Layer Sediments

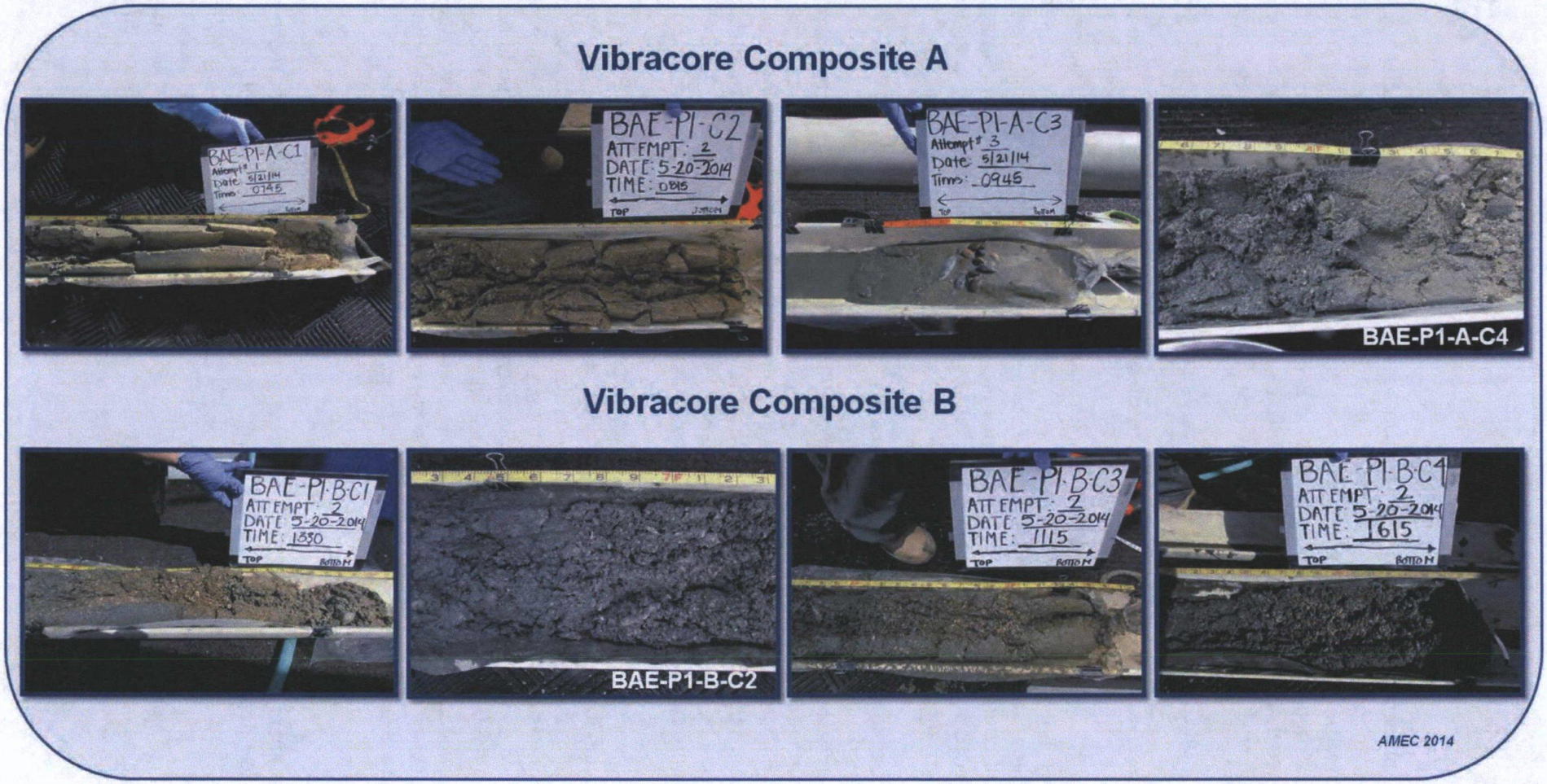

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Table 4-1.
BAE Pier 1N Dry Dock Sump Grain Size Results – Reference Sediments, Control Sediments, and Vibracore Samples

Location	Total Gravel (%)	Very Coarse Sand (%)	Coarse Sand (%)	Medium Sand (%)	Fine Sand (%)	Very Fine Sand (%)	Total Sand (%)	Silt (%)	Clay (%)	Total Silt & Clay (%)	Mean Grain Size (mm)	Plumb (1981) Grain Size Classification	USCS Classification
LA-5 Reference Sediment													
LA-5 ODMDS	0.00	0.00	0.00	0.00	2.51	29.7	32.2	59.6	8.13	67.8	0.047	Silt	Sandy Silt
LA-5 ODMDS (QC Dup)	0.00	0.00	0.00	0.00	1.50	31.3	32.8	58.8	8.45	67.2	0.047	Silt	Sandy Silt
Bioassay Control Sediments													
E. estuarius sp. Home Sediment	0.00	0.00	3.11	53.8	39.0	1.52	97.4	2.10	0.46	2.56	0.277	Medium Sand	Sand
Macoma/Nereis Home Sediment	0.00	0.00	0.76	10.3	72.0	12.4	95.4	3.70	0.87	4.57	0.178	Fine Sand	Sand
BAE Systems Shipyard Pier 1N Dry Dock Sump Dredging Footprint													
Vibracore Composite and Subcomposite Samples													
Composite A	0.00	0.05	6.65	25.5	40.4	8.79	81.3	15.2	3.50	18.7	0.217	Fine Sand	Silty Sand
Composite B	0.00	0.00	0.00	0.00	0.00	0.00	0.0	77.2	22.8	100	0.014	Silt	Silt with Clay
Subcomposite-A1	0.00	0.03	8.21	38.8	40.5	5.55	93.1	5.50	1.36	6.87	0.267	Medium Sand	Sand
Subcomposite-A2	2.49	2.19	11.2	29.0	42.3	8.57	93.3	3.51	0.76	4.28	0.372	Medium Sand	Sand
Subcomposite-B1	8.81	0.27	12.7	32.5	31.9	5.89	83.2	6.34	1.66	8.00	0.559	Coarse Sand	Sand
Subcomposite-B2	6.71	8.06	23.5	32.7	17.6	2.37	84.2	5.61	3.47	9.09	0.652	Coarse Sand	Sand
Individual Vibracore Samples													
BAE-P1-A-C1	0.00	0.00	0.00	0.570	38.8	14.4	53.7	34.8	11.5	46.3	0.089	Very Fine Sand	Silty Sand
BAE-P1-A-C2	2.27	0.00	0.00	0.00	2.54	10.0	12.5	65.5	19.7	85.2	0.094	Very Fine Sand	Silt with Clay
BAE-P1-A-C3	0.00	0.0100	4.69	28.3	39.8	7.66	80.4	14.6	4.97	19.6	0.210	Fine Sand	Sand with Silt
BAE-P1-A-C4	5.42	0.00	0.00	0.00	2.38	9.38	11.8	62.7	20.1	82.8	0.188	Fine Sand	Silt with Clay
BAE-P1-A-C4A	0.470	0.00	0.00	0.00	0.00	7.86	7.86	66.6	25.1	91.7	0.034	Silt	Silt with Clay
BAE-P1-B-C1	4.99	0.00	0.00	0.00	0.620	5.54	6.16	70.3	18.5	88.9	0.171	Fine Sand	Silt with Clay
BAE-P1-B-C2	3.50	0.00	0.00	0.00	0.00	0.00	0.00	69.2	27.3	96.5	0.116	Very Fine Sand	Silt with Clay
BAE-P1-B-C3	0.00	0.00	0.00	1.51	20.2	14.8	36.5	51.5	12.0	63.5	0.066	Very Fine Sand	Sandy Silt
BAE-P1-B-C4	0.00	0.00	0.00	0.00	0.120	4.54	4.66	69.7	25.6	95.3	0.018	Silt	Silt with Clay

Notes:
% = percent; USCS = Unified Soil Classification System; QC = quality control; Dup = duplicate;

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Table 4-2.
BAE Pier 1N Dry Dock Sump Geotechnical Grain Size Results

Location	Total Gravel (%)	Very Coarse Sand (%)	Coarse Sand (%)	Medium Sand (%)	Fine Sand (%)	Very Fine Sand (%)	Total Sand (%)	Silt (%)	Clay (%)	Total Silt & Clay (%)	Mean Grain Size (mm)	Plumb (1981) Grain Size Classification	USCS Classification
Geotechnical Composite Samples													
Comp A	0.00	0.00	0.00	6.5	33.1	17.1	56.7	36.6	6.71	43.3	0.105	Very Fine Sand	Silty Sand
Comp B	0.00	0.00	0.00	0.00	1.5	14.5	16.0	84.0	13.15	84.0	0.032	Silt	Silt with Sand
Comp C	0.00	0.00	0.00	0.00	0.00	6.86	6.9	70.2	22.93	93.1	0.021	Silt	Silt with Clay
Individual Geotechnical Boring Samples													
B-1-1	0.00	0.00	0.00	0.030	16.1	12.5	28.7	54.7	16.7	71.3	0.049	Silt	Silt with Sand and Clay
B-1-3[1]	0.10	NR	1.2	12.5	37.3	NR	51.0	35.2	13.7	48.9	NR	NR	Clayey Sand
B-1-5	0.00	0.00	0.00	0.010	10.5	15.3	25.8	62.0	12.2	74.2	0.046	Silt	Silt with Sand
B-1-7[1]	0.00	NR	0.60	9.10	61.2	NR	70.9	13.3	15.8	29.1	NR	NR	Silty Sand
B-1-9	0.00	0.00	0.00	0.00	0.380	11.8	12.2	72.4	15.4	87.8	0.028	Silt	Silt with Clay
B-1-11[1]	0.80	NR	0.60	14.0	61.9	NR	76.5	18.0	4.7	22.7	NR	NR	Silty Sand
B-2-1[1]	0.20	NR	1.60	10.4	28.7	NR	40.7	34.4	24.7	59.1	NR	NR	Lean Clay
B-2-3[1]	0.50	NR	3.30	18.2	28.5	NR	50.0	32.4	17.1	49.5	NR	NR	Clayey Sand
B-2-5	0.00	0.00	0.00	0.00	2.58	12.1	14.7	70.6	14.7	85.3	0.031	Silt	Silt
B-2-9[1]	1.20	NR	11.9	35.2	32.7	NR	79.8	12.5	6.50	19.0	NR	NR	Silty Sand
B-3-1	0.00	0.00	0.00	4.38	38.1	26.4	68.9	25.8	5.26	31.1	0.111	Very Fine Sand	Silty Sand
B-3-5[1]	1.60	NR	5.80	9.00	34.2	NR	49.0	33.4	16.0	49.4	NR	NR	Clayey Sand
B-3-7[1]	9.50	NR	3.40	9.60	40.2	NR	53.2	29.2	8.10	37.3	NR	NR	Silty Sand
B-3-9[1]	0.00	NR	1.50	28.6	43.7	NR	73.8	18.6	7.6	26.2	NR	NR	Silty Sand
B-4-1[1]	3.20	NR	1.90	8.70	71.9	NR	82.5	7.70	6.60	14.3	NR	NR	Silty Sand
B-4-4[1]	0.00	NR	0.90	10.3	82.1	NR	93.3	4.90	1.80	6.70	NR	NR	Poorly Graded Sand -Silty Sand
B-4-6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.9	28.1	100	0.012	Silt	Silt with Clay
B-4-9[1]	0.00	NR	1.0	5.5	15.5	NR	22.0	31.9	46.1	78.0	NR	NR	Fat Clay
B-5-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.6	40.4	100	0.006	Silt	Clayey Silt
B-5-3	0.00	0.00	5.37	23.6	37.7	16.0	82.7	16.6	0.710	17.3	0.202	Fine Sand	Sand with Silt
B-5-8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.0	36.0	100	0.009	Silt	Clayey Silt
B-6-3	0.00	0.00	0.00	0.00	0.00	2.76	2.76	67.7	29.5	97.2	0.015	Silt	Silt with Clay
B-6-5	0.00	0.00	0.00	0.00	0.00	1.32	1.32	74.5	24.2	98.7	0.015	Silt	Silt with Clay
B-6-8	0.00	0.00	0.00	0.00	0.0600	7.25	7.31	69.8	22.9	92.7	0.020	Silt	Silt with Clay
B-7-1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.9	41.1	100	0.006	Silt	Clayey Silt
B-7-4	0.00	0.00	0.00	0.060	17.5	14.6	32.2	54.5	13.4	67.8	0.055	Silt	Sandy Silt
B-7-6	0.00	0.00	0.00	0.230	15.4	11.9	27.6	59.9	12.5	72.5	0.051	Silt	Silt with Sand
B-7-8	29.8	0.00	0.00	0.00	0.00	0.00	0.00	37.7	32.5	70.2	0.900	Coarse Sand	Clayey Gravelly Silt
B-7-11	17.1	0.00	0.00	0.00	0.00	1.39	1.39	65.4	16.1	81.5	0.531	Coarse Sand	Silt with Gravel and Clay
B-8-4[1]	0.10	NR	2.20	27.2	50.3	NR	79.7	16.2	4.00	20.2	NR	NR	Silty Sand
B-8-11[1]	21.8	NR	1.50	3.30	36.7	NR	41.5	26.7	10.0	36.7	NR	NR	Clayey Sand-Silty Sand

Notes:
1 – Geotechnical grain size sample analyzed by TerraCosta Consulting Group, Inc. (July/August 2014).
% = percent; USCS = Unified Soil Classification System, QC = quality control, Dup = duplicate, NR = not recorded

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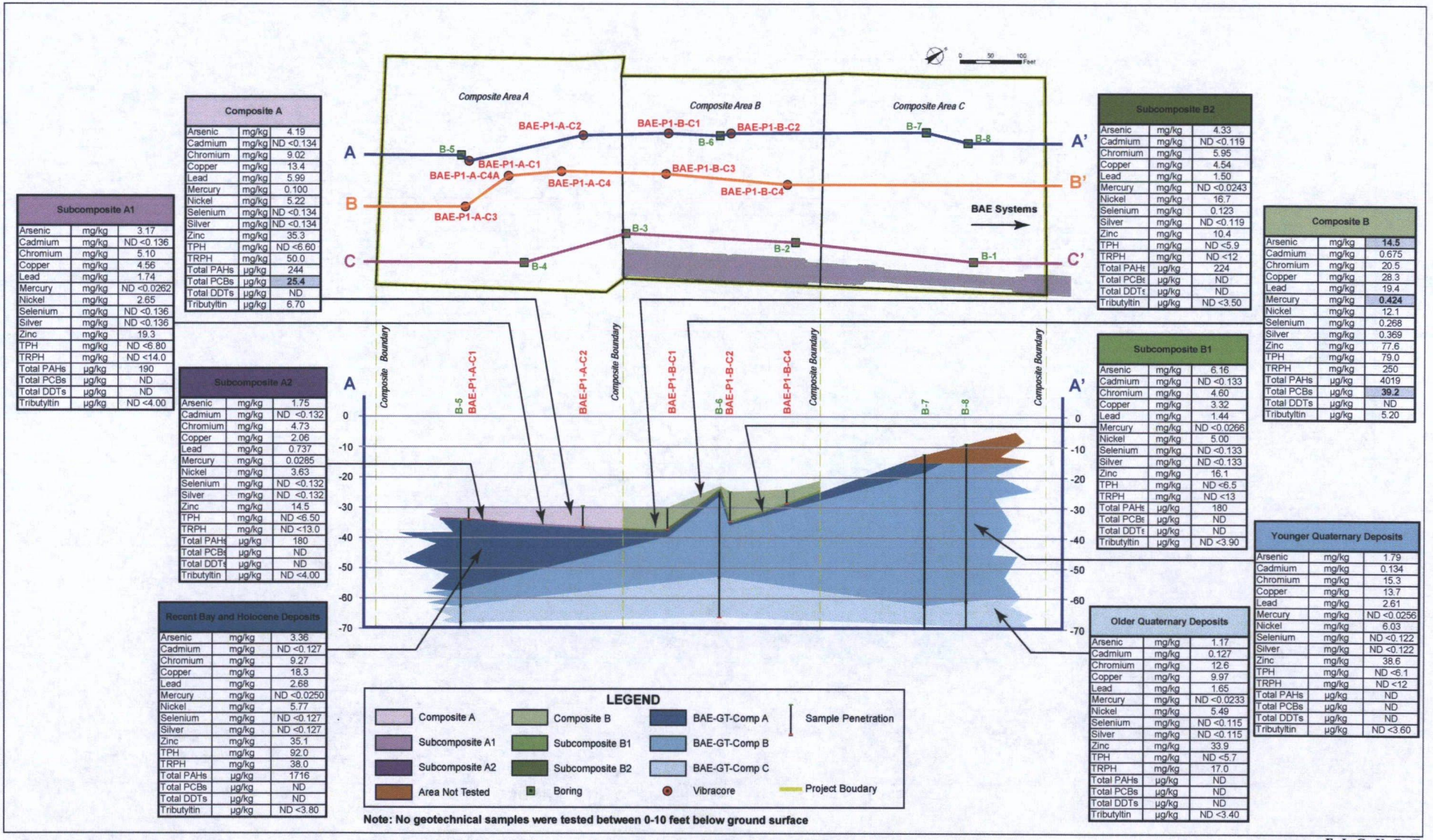

Composite A		
Arsenic	mg/kg	4.19
Cadmium	mg/kg	ND <0.134
Chromium	mg/kg	9.02
Copper	mg/kg	13.4
Lead	mg/kg	5.99
Mercury	mg/kg	0.100
Nickel	mg/kg	5.22
Selenium	mg/kg	ND <0.134
Silver	mg/kg	ND <0.134
Zinc	mg/kg	35.3
TPH	mg/kg	ND <6.60
TRPH	mg/kg	50.0
Total PAHs	µg/kg	244
Total PCBs	µg/kg	**25.4**
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	6.70

Subcomposite A1		
Arsenic	mg/kg	3.17
Cadmium	mg/kg	ND <0.136
Chromium	mg/kg	5.10
Copper	mg/kg	4.56
Lead	mg/kg	1.74
Mercury	mg/kg	ND <0.0262
Nickel	mg/kg	2.65
Selenium	mg/kg	ND <0.136
Silver	mg/kg	ND <0.136
Zinc	mg/kg	19.3
TPH	mg/kg	ND <6.80
TRPH	mg/kg	ND <14.0
Total PAHs	µg/kg	190
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <4.00

Subcomposite A2		
Arsenic	mg/kg	1.75
Cadmium	mg/kg	ND <0.132
Chromium	mg/kg	4.73
Copper	mg/kg	2.06
Lead	mg/kg	0.737
Mercury	mg/kg	0.0285
Nickel	mg/kg	3.63
Selenium	mg/kg	ND <0.132
Silver	mg/kg	ND <0.132
Zinc	mg/kg	14.5
TPH	mg/kg	ND <6.50
TRPH	mg/kg	ND <13.0
Total PAHs	µg/kg	180
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <4.00

Recent Bay and Holocene Deposits		
Arsenic	mg/kg	3.36
Cadmium	mg/kg	ND <0.127
Chromium	mg/kg	9.27
Copper	mg/kg	18.3
Lead	mg/kg	2.68
Mercury	mg/kg	ND <0.0250
Nickel	mg/kg	5.77
Selenium	mg/kg	ND <0.127
Silver	mg/kg	ND <0.127
Zinc	mg/kg	35.1
TPH	mg/kg	92.0
TRPH	mg/kg	38.0
Total PAHs	µg/kg	1716
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.80

Subcomposite B2		
Arsenic	mg/kg	4.33
Cadmium	mg/kg	ND <0.119
Chromium	mg/kg	5.95
Copper	mg/kg	4.54
Lead	mg/kg	1.50
Mercury	mg/kg	ND <0.0243
Nickel	mg/kg	16.7
Selenium	mg/kg	0.123
Silver	mg/kg	ND <0.119
Zinc	mg/kg	10.4
TPH	mg/kg	ND <5.9
TRPH	mg/kg	ND <12
Total PAHs	µg/kg	224
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.50

Subcomposite B1		
Arsenic	mg/kg	6.16
Cadmium	mg/kg	ND <0.133
Chromium	mg/kg	4.60
Copper	mg/kg	3.32
Lead	mg/kg	1.44
Mercury	mg/kg	ND <0.0266
Nickel	mg/kg	5.00
Selenium	mg/kg	ND <0.133
Silver	mg/kg	ND <0.133
Zinc	mg/kg	16.1
TPH	mg/kg	ND <6.5
TRPH	mg/kg	ND <13
Total PAHs	µg/kg	180
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.90

Older Quaternary Deposits		
Arsenic	mg/kg	1.17
Cadmium	mg/kg	0.127
Chromium	mg/kg	12.6
Copper	mg/kg	9.97
Lead	mg/kg	1.65
Mercury	mg/kg	ND <0.0233
Nickel	mg/kg	5.49
Selenium	mg/kg	ND <0.115
Silver	mg/kg	ND <0.115
Zinc	mg/kg	33.9
TPH	mg/kg	ND <5.7
TRPH	mg/kg	17.0
Total PAHs	µg/kg	ND
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.40

Composite B		
Arsenic	mg/kg	**14.5**
Cadmium	mg/kg	0.675
Chromium	mg/kg	20.5
Copper	mg/kg	28.3
Lead	mg/kg	19.4
Mercury	mg/kg	**0.424**
Nickel	mg/kg	12.1
Selenium	mg/kg	0.268
Silver	mg/kg	0.369
Zinc	mg/kg	77.6
TPH	mg/kg	79.0
TRPH	mg/kg	250
Total PAHs	µg/kg	4019
Total PCBs	µg/kg	**39.2**
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	5.20

Younger Quaternary Deposits		
Arsenic	mg/kg	1.79
Cadmium	mg/kg	0.134
Chromium	mg/kg	15.3
Copper	mg/kg	13.7
Lead	mg/kg	2.61
Mercury	mg/kg	ND <0.0256
Nickel	mg/kg	6.03
Selenium	mg/kg	ND <0.122
Silver	mg/kg	ND <0.122
Zinc	mg/kg	38.6
TPH	mg/kg	ND <6.1
TRPH	mg/kg	ND <12
Total PAHs	µg/kg	ND
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.60

Note: No geotechnical samples were tested between 0-10 feet below ground surface

Analytical Results Summary for Composite Samples Collected at BAE Systems Pier 1N - Transect A
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
4-2a

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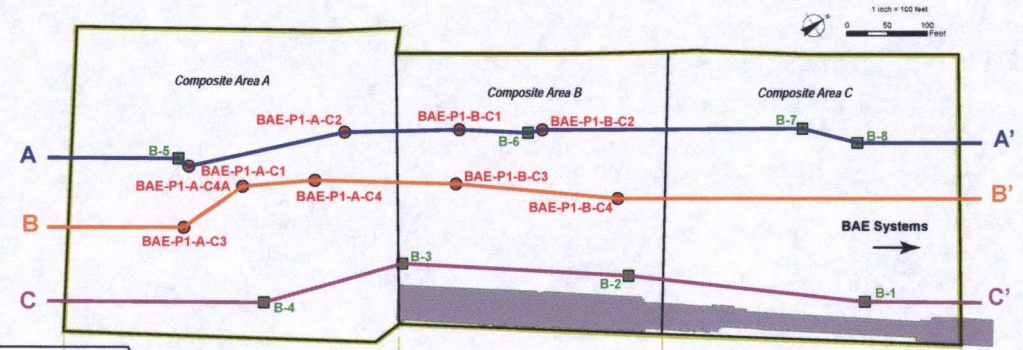
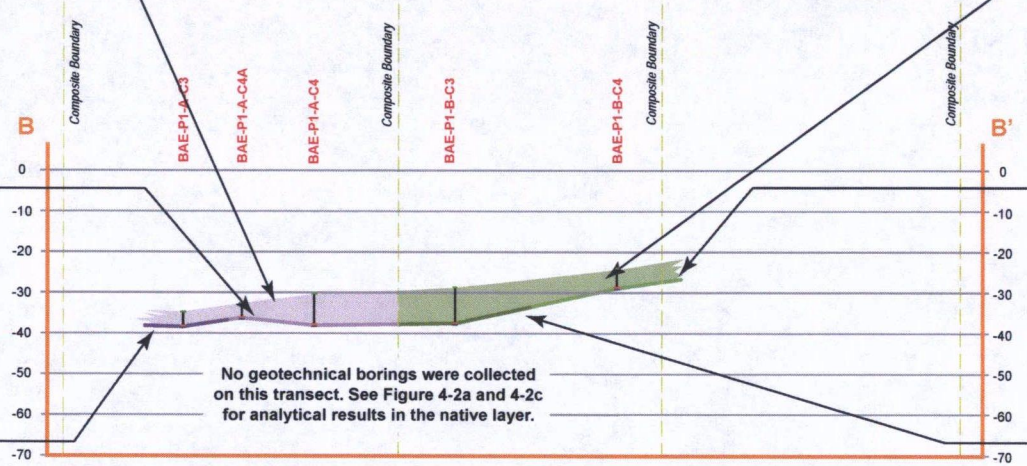




Composite A		
Arsenic	mg/kg	4.19
Cadmium	mg/kg	ND <0.134
Chromium	mg/kg	9.02
Copper	mg/kg	13.4
Lead	mg/kg	5.99
Mercury	mg/kg	0.100
Nickel	mg/kg	5.22
Selenium	mg/kg	ND <0.134
Silver	mg/kg	ND <0.134
Zinc	mg/kg	35.3
TPH	mg/kg	ND <6.60
TRPH	mg/kg	50.0
Total PAHs	µg/kg	244
Total PCBs	µg/kg	25.4
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	6.70

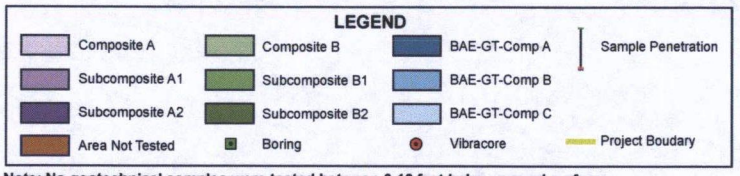
Subcomposite A1		
Arsenic	mg/kg	3.17
Cadmium	mg/kg	ND <0.136
Chromium	mg/kg	5.10
Copper	mg/kg	4.56
Lead	mg/kg	1.74
Mercury	mg/kg	ND <0.0262
Nickel	mg/kg	2.65
Selenium	mg/kg	ND <0.136
Silver	mg/kg	ND <0.136
Zinc	mg/kg	19.3
TPH	mg/kg	ND <6.80
TRPH	mg/kg	ND <14.0
Total PAHs	µg/kg	190
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <4.00

Subcomposite A2		
Arsenic	mg/kg	1.75
Cadmium	mg/kg	ND <0.132
Chromium	mg/kg	4.73
Copper	mg/kg	2.06
Lead	mg/kg	0.737
Mercury	mg/kg	0.0285
Nickel	mg/kg	3.63
Selenium	mg/kg	ND <0.132
Silver	mg/kg	ND <0.132
Zinc	mg/kg	14.5
TPH	mg/kg	ND <6.50
TRPH	mg/kg	ND <13.0
Total PAHs	µg/kg	180
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <4.00

Composite B		
Arsenic	mg/kg	14.5
Cadmium	mg/kg	0.675
Chromium	mg/kg	20.5
Copper	mg/kg	28.3
Lead	mg/kg	19.4
Mercury	mg/kg	0.424
Nickel	mg/kg	12.1
Selenium	mg/kg	0.268
Silver	mg/kg	0.369
Zinc	mg/kg	77.6
TPH	mg/kg	79.0
TRPH	mg/kg	250
Total PAHs	µg/kg	4019
Total PCBs	µg/kg	39.2
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	5.20

Subcomposite B1		
Arsenic	mg/kg	6.16
Cadmium	mg/kg	ND <0.133
Chromium	mg/kg	4.60
Copper	mg/kg	3.32
Lead	mg/kg	1.44
Mercury	mg/kg	ND <0.0266
Nickel	mg/kg	5.00
Selenium	mg/kg	ND <0.133
Silver	mg/kg	ND <0.133
Zinc	mg/kg	16.1
TPH	mg/kg	ND <6.5
TRPH	mg/kg	ND <13
Total PAHs	µg/kg	180
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.90

Subcomposite B2		
Arsenic	mg/kg	4.33
Cadmium	mg/kg	ND <0.119
Chromium	mg/kg	5.95
Copper	mg/kg	4.54
Lead	mg/kg	1.50
Mercury	mg/kg	ND <0.0243
Nickel	mg/kg	16.7
Selenium	mg/kg	0.123
Silver	mg/kg	ND <0.119
Zinc	mg/kg	10.4
TPH	mg/kg	ND <5.9
TRPH	mg/kg	ND <12
Total PAHs	µg/kg	224
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.50



Note: No geotechnical samples were tested between 0-10 feet below ground surface

Analytical Results Summary for Composite Samples Collected at BAE Systems Pier 1N - Transect B
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
4-2b

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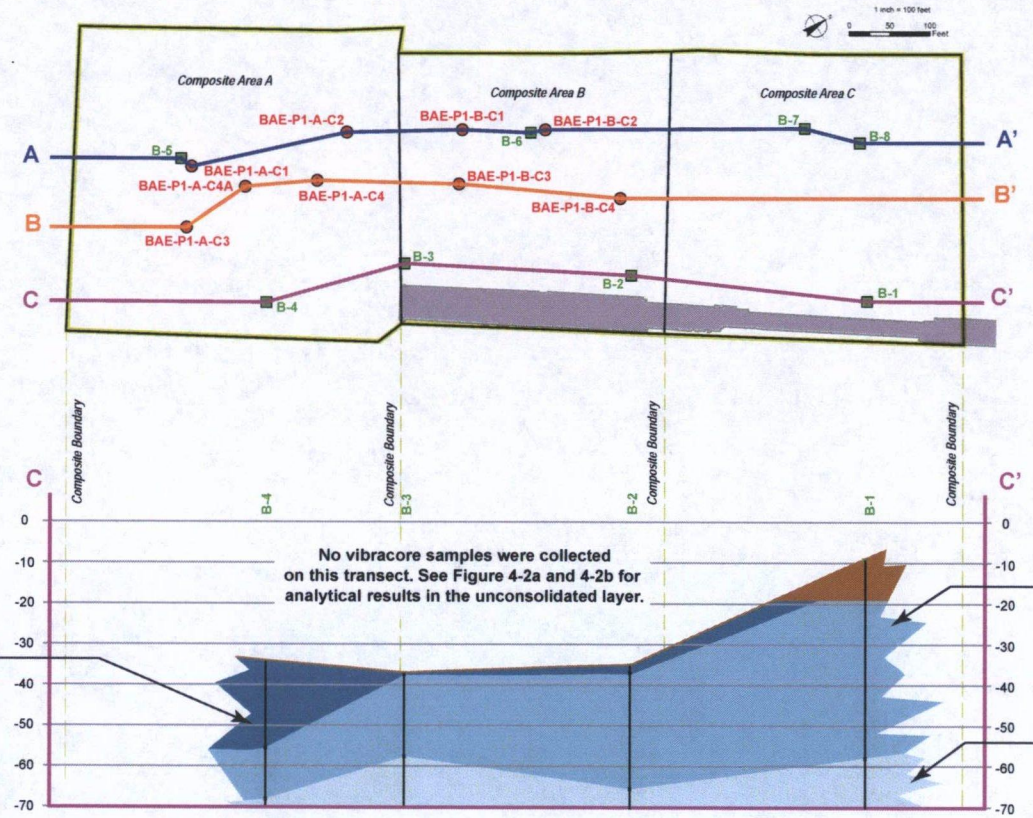

Recent Bay and Holocene Deposits		
Arsenic	mg/kg	3.36
Cadmium	mg/kg	ND <0.127
Chromium	mg/kg	9.27
Copper	mg/kg	18.3
Lead	mg/kg	2.68
Mercury	mg/kg	ND <0.0250
Nickel	mg/kg	5.77
Selenium	mg/kg	ND <0.127
Silver	mg/kg	ND <0.127
Zinc	mg/kg	35.1
TPH	mg/kg	92.0
TRPH	mg/kg	38.0
Total PAHs	µg/kg	1716
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.80

Younger Quaternary Deposits		
Arsenic	mg/kg	1.79
Cadmium	mg/kg	0.134
Chromium	mg/kg	15.3
Copper	mg/kg	13.7
Lead	mg/kg	2.61
Mercury	mg/kg	ND <0.0256
Nickel	mg/kg	6.03
Selenium	mg/kg	ND <0.122
Silver	mg/kg	ND <0.122
Zinc	mg/kg	38.6
TPH	mg/kg	ND <6.1
TRPH	mg/kg	ND <12
Total PAHs	µg/kg	ND
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.60

Older Quaternary Deposits		
Arsenic	mg/kg	1.17
Cadmium	mg/kg	0.127
Chromium	mg/kg	12.6
Copper	mg/kg	9.97
Lead	mg/kg	1.65
Mercury	mg/kg	ND <0.0233
Nickel	mg/kg	5.49
Selenium	mg/kg	ND <0.115
Silver	mg/kg	ND <0.115
Zinc	mg/kg	33.9
TPH	mg/kg	ND <5.7
TRPH	mg/kg	17.0
Total PAHs	µg/kg	ND
Total PCBs	µg/kg	ND
Total DDTs	µg/kg	ND
Tributyltin	µg/kg	ND <3.40

LEGEND

Composite A | Composite B | BAE-GT-Comp A | Sample Penetration
Subcomposite A1 | Subcomposite B1 | BAE-GT-Comp B
Subcomposite A2 | Subcomposite B2 | BAE-GT-Comp C
Area Not Tested | Boring | Vibracore | Project Boudary

Note: No geotechnical samples were tested between 0-10 feet below ground surface

Analytical Results Summary for Composite Samples Collected at BAE Systems Pier 1N - Transect C
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
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Table 4-3.
Summary of Analytical Results for Vibracore Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	LA-5 Reference	Composite A	Composite A Lab Duplicate	Composite B	Subcomposite A1	Subcomposite A2	Subcomposite B1	Subcomposite B2
SM 2540 B (M)	Solids, Total	Gen. Chem.	%			60.3	74 4	74.2	65.2	73.8	75.6	75.2	83.8
EPA 9060A	Total Organic Carbon	Gen. Chem.	%			1.3	0.17	0.16	1 0	ND < 0.068	ND < 0.066	0.066	0 38
SM 4500-NH_3 B/C (M)	Ammonia (as N)	Gen. Chem.	mg/kg			3.3	1.1	NT	14.0	0.76	0.74	1.7	7.0
EPA 376.2M	Total Sulfide	Gen. Chem.	mg/kg			9.1	1.6	NT	0.92	0.61	0.20	0.20	0 60
EPA 376.2M	Dissolved Sulfide	Gen. Chem.	mg/kg			ND < 0.10	ND < 0 10	NT	ND < 0.10	ND < 0.10	ND < 0.10	ND < 0 10	ND < 0 10
EPA 413.2M	Oil and Grease	Gen. Chem.	mg/kg			84	51	50	270	ND < 14	ND < 13	ND < 13	ND < 12
EPA 6020	Arsenic	Metals	mg/kg	8.2	70	2.68	4.19	4.70	14.5	3.17	1.75	6 16	4.33
EPA 6020	Cadmium	Metals	mg/kg	1.2	9.6	0.319	ND < 0.134	0 173	0.675	ND < 0.136	ND < 0.132	ND < 0.133	ND < 0 119
EPA 6020	Chromium	Metals	mg/kg	81	370	23.6	9.02	9.31	20.5	5.10	4.73	4 60	5.95
EPA 6020	Copper	Metals	mg/kg	34	270	13.2	13.4	15 2	28 3	4.56	2.06	3.32	4.54
EPA 6020	Lead	Metals	mg/kg	46.7	218	7.14	5.99	6 74	19.4	1.74	0.737	1.44	1 50
EPA 7471A	Mercury	Metals	mg/kg	0.15	0.71	0.0716	0.100	0.0914	0.424	ND < 0 0262	0.0285	ND < 0.0266	ND<0 .0243
EPA 6020	Nickel	Metals	mg/kg	20.9	51.6	14.8	5 22	5.03	12.1	2.65	3.63	5.00	16.7
EPA 6020	Selenium	Metals	mg/kg			0.638	ND < 0.134	0.162	0 268	ND < 0.136	ND < 0.132	ND < 0.133	0.123
EPA 6020	Silver	Metals	mg/kg	1.0	3.7	ND < 0.166	ND < 0.134	ND<0.135	0.369	ND < 0.136	ND < 0.132	ND < 0.133	ND < 0.119
EPA 6020	Zinc	Metals	mg/kg	150	410	49.8	35.3	37.7	77.6	19.3	14.5	16 1	10.4
EPA 8015B(M)	C6	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7 6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C7	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7 6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C8	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7.6	ND < 6.8	ND < 6 5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C9-C10	TPH	mg/kg			ND < 8 2	ND < 6.6	ND < 6.7	ND < 7.6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5 9
EPA 8015B(M)	C11-C12	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7.6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5 9
EPA 8015B(M)	C13-C14	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7.6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C15-C16	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7 6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C17-C18	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7.6	ND < 6.8	ND < 6 5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C19-C20	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7.6	ND < 6 8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C21-C22	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6 7	8.6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5 9
EPA 8015B(M)	C23-C24	TPH	mg/kg			ND < 8.2	ND < 6 6	ND < 6.7	ND < 7.6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C25-C28	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	12	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C29-C32	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	20	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C33-C36	TPH	mg/kg			ND < 8.2	ND < 6 6	ND < 6.7	12	ND < 6.8	ND < 6 5	ND < 6.5	ND < 5 9
EPA 8015B(M)	C37-C40	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7.6	ND < 6 8	ND < 6.5	ND < 6.5	ND < 5 9

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Table 4-3.
Summary of Analytical Results for Vibracore Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	LA-5 Reference	Composite A	Composite A Lab Duplicate	Composite B	Subcomposite A1	Subcomposite A2	Subcomposite B1	Subcomposite B2
EPA 8015B(M)	C41-C44	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	ND < 7.6	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 8015B(M)	C6-C44 Total	TPH	mg/kg			ND < 8.2	ND < 6.6	ND < 6.7	79	ND < 6.8	ND < 6.5	ND < 6.5	ND < 5.9
EPA 418 1M	TRPH	TRPH	mg/kg			79	50	51	250	ND < 14	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	1-Methylnaphthalene	LMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	1-Methylphenanthrene	LMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	1,6,7-Trimethylnaphthalene	LMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2-Methylnaphthalene	LMW PAH	µg/kg	70	670	ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2,6-Dimethylnaphthalene	LMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Acenaphthene	LMW PAH	µg/kg	16	500	ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Acenaphthylene	LMW PAH	µg/kg	44	640	ND < 17	ND < 13	ND < 13	54	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Anthracene	LMW PAH	µg/kg	85.3	1100	ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Naphthalene	LMW PAH	µg/kg	160	2100	ND < 17	ND < 13	ND < 13	35	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Phenanthrene	LMW PAH	µg/kg	240	1500	ND < 17	ND < 13	15	120	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Fluorene	LMW PAH	µg/kg	19	540	ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Benzo (a) Anthracene	HMW PAH	µg/kg	261	1600	ND < 17	ND < 13	ND < 13	180	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Benzo (a) Pyrene	HMW PAH	µg/kg	430	1600	ND < 17	26	25	510	ND < 13	ND < 13	ND < 13	16
EPA 8270C SIM	Benzo (b) Fluoranthene	HMW PAH	µg/kg			ND < 17	20	20	410	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Benzo (g,h,i) Perylene	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	310	ND < 13	ND < 13	ND < 13	19
EPA 8270C SIM	Benzo (k) Fluoranthene	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	290	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Dibenz (a,h) Anthracene	HMW PAH	µg/kg	63.4	260	ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Chrysene	HMW PAH	µg/kg	384	2800	ND < 17	ND < 13	ND < 13	210	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	DCPA	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Fluoranthene	HMW PAH	µg/kg	600	5100	ND < 17	ND < 13	17	360	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Indeno (1,2,3-c,d) Pyrene	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	310	ND < 13	ND < 13	ND < 13	15
EPA 8270C SIM	Isophorone	HMW PAH	µg/kg			ND < 170	ND < 130	ND < 130	ND < 150	ND < 130	ND < 130	ND < 130	ND < 120
EPA 8270C SIM	Pyrene	HMW PAH	µg/kg	665	2600	ND < 17	18	20	620	ND < 13	ND < 13	ND < 13	14
EPA 8270C SIM	Dibenzothiophene	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Benzo (e) Pyrene	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	260	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Perthane	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Perylene	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	100	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Benzoic Acid	HMW PAH	µg/kg			230	180	180	250	190	180	180	160

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Table 4-3.
Summary of Analytical Results for Vibracore Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	LA-5 Reference	Composite A	Composite A Lab Duplicate	Composite B	Subcomposite A1	Subcomposite A2	Subcomposite B1	Subcomposite B2
EPA 8270C SIM	Biphenyl	HMW PAH	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Total Detectable PAHs	PAH	µg/kg	4022	44792	ND < 17	244	277	4019	190	180	180	224
EPA 8270C SIM	2,4,5-Trichlorophenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2,4,6-Trichlorophenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2,4-Dichlorophenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2,4-Dimethylphenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	39	33	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2,4-Dinitrophenol	Phenol	µg/kg			ND < 830	ND < 670	ND < 670	ND < 760	ND < 670	ND < 660	ND < 660	ND < 590
EPA 8270C SIM	2-Chlorophenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2-Methylphenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2-Nitrophenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	3/4-Methylphenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	4,6-Dinitro-2-Methylphenol	Phenol	µg/kg			ND < 830	ND < 670	ND < 670	ND < 760	ND < 670	ND < 660	ND < 660	ND < 590
EPA 8270C SIM	4-Chloro-3-Methylphenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	4-Nitrophenol	Phenol	µg/kg			ND < 830	ND < 670	ND < 670	ND < 760	ND < 670	ND < 660	ND < 660	ND < 590
EPA 8270C SIM	Pentachlorophenol	Phenol	µg/kg			ND < 830	ND < 670	ND < 670	ND < 761	ND < 670	ND < 660	ND < 660	ND < 590
EPA 8270C SIM	Phenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	55	21	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2,3,4,6-Tetrachlorophenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	2,6-Dichlorophenol	Phenol	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Bis(2-Ethylhexyl) Phthalate	Phthalate	µg/kg			120	32	28	190	100	29	21	38
EPA 8270C SIM	Butyl Benzyl Phthalate	Phthalate	µg/kg			220	ND < 13	ND < 13	18	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Di-n-Butyl Phthalate	Phthalate	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Di-n-Octyl Phthalate	Phthalate	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Diethyl Phthalate	Phthalate	µg/kg			ND < 17	ND < 13	ND < 13	ND < 15	ND < 13	ND < 13	ND < 13	ND < 12
EPA 8270C SIM	Dimethyl Phthalate	Phthalate	µg/kg			110	280	330	250	110	76	96	59
EPA 8081A	2,4'-DDD	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1 3	ND < 1.3	ND < 1.2
EPA 8081A	2,4'-DDE	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1 3	ND < 1.3	ND < 1.2
EPA 8081A	2,4'-DDT	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	4,4'-DDD	Chlor. Pest.	µg/kg	2.0	20	ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1 3	ND < 1 3	ND < 1.2
EPA 8081A	4,4'-DDE	Chlor. Pest.	µg/kg	2.2	27	6.3	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1 3	ND < 1 3	ND < 1.2
EPA 8081A	4,4'-DDT	Chlor. Pest.	µg/kg	1.0	7.0	ND < 1.7	ND < 1.3	ND < 1 4	ND < 1 5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1 2
	Total Detectable DDTs	Chlor. Pest.	µg/kg	1.58	46.1	6.3	ND	ND	ND	ND	ND	ND	ND

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Table 4-3.
Summary of Analytical Results for Vibracore Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	LA-5 Reference	Composite A	Composite A Lab Duplicate	Composite B	Subcomposite A1	Subcomposite A2	Subcomposite B1	Subcomposite B2
EPA 8081A	Aldrin	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Alpha-BHC	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Beta-BHC	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Delta-BHC	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Gamma-BHC	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Chlordane	Chlor. Pest.	µg/kg	0.5	6.0	ND < 17	ND < 13	ND < 14	ND < 15	ND < 14	ND < 13	ND < 13	ND < 12
EPA 8081A	Dieldrin	Chlor. Pest.	µg/kg	0.02	8.0	ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Trans-nonachlor	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Endosulfan I	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Endosulfan II	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Endosulfan Sulfate	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Endrin	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Endrin Aldehyde	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Endrin Keytone	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Heptachlor	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Heptachlor Epoxide	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Methoxychlor	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Toxaphene	Chlor. Pest.	µg/kg			ND < 33	ND < 27	ND < 27	ND < 31	ND < 27	ND < 27	ND < 27	ND < 24
EPA 8081A	Alpha Chlordane	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Gamma Chlordane	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Cis-nonachlor	Chlor. Pest.	µg/kg			ND < 1.7	1.4	1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8081A	Oxychlordane	Chlor. Pest.	µg/kg			ND < 1.7	ND < 1.3	ND < 1.4	ND < 1.5	ND < 1.4	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8270C SIM	PCB018	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB028	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB037	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB044	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB049	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB052	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB066	PCB Cong.	µg/kg			ND < 0.83	0.58 J	0.43 J	1.3	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB070	PCB Cong.	µg/kg			ND < 0.83	0.62 J	0.79 J	1.7	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB074	PCB Cong.	µg/kg			ND < 0.83	0.42 J	0.31 J	1.3	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB077	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB081	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60

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Table 4-3.
Summary of Analytical Results for Vibracore Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	LA-5 Reference	Composite A	Composite A Lab Duplicate	Composite B	Subcomposite A1	Subcomposite A2	Subcomposite B1	Subcomposite B2
EPA 8270C SIM	PCB087	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	1.0	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB099	PCB Cong.	µg/kg			ND < 0.83	1.1	1.1	2.0	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB101	PCB Cong.	µg/kg			ND < 0.83	2.5	2.6	4.6	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB105	PCB Cong.	µg/kg			ND < 0.83	0.78	1.0	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB110	PCB Cong.	µg/kg			ND < 0.83	2 2	2.5	3 7	ND < 0.67	ND < 0 66	ND < 0 66	ND < 0.60
EPA 8270C SIM	PCB114	PCB Cong.	µg/kg			ND < 0.83	ND < 0 67	ND < 0 67	ND < 0.76	ND < 0 67	ND < 0 66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB118	PCB Cong.	µg/kg			ND < 0.83	2.5	2 4	4.6	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB119	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB123	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0 67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB126	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0 66	ND < 0.60
EPA 8270C SIM	PCB128	PCB Cong.	µg/kg			ND < 0.83	0.81	0 57 J	0.88	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB138/158	PCB Cong.	µg/kg			ND < 1.7	4.0	2.1	5:1	ND < 1 3	ND < 1.3	ND < 1.3	ND < 1.2
EPA 8270C SIM	PCB149	PCB Cong.	µg/kg			ND < 0 83	2.0	1.0	2.9	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB151	PCB Cong.	µg/kg			ND < 0.83	0 65 J	0.22 J	1.4	ND < 0.67	ND < 0 66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB153	PCB Cong.	µg/kg			ND < 0.83	3.3	1.8	4.4	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB156	PCB Cong.	µg/kg			ND < 0.83	0.69	0.33 J	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB157	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0 67	ND < 0.76	ND < 0.67	ND < 0 66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB167	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0 66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB168	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0 76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0 60
EPA 8270C SIM	PCB169	PCB Cong.	µg/kg			ND < 0 83	ND < 0.67	ND < 0 67	ND < 0 76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB170	PCB Cong.	µg/kg			ND < 0.83	0.88	0.32 J	1.1	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB177	PCB Cong.	µg/kg			ND < 0.83	0.26 J	ND < 0 67	0.56 J	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB180	PCB Cong.	µg/kg			ND < 0.83	1.2	0.44 J	2.1	ND < 0.67	ND < 0 66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB183	PCB Cong.	µg/kg			ND < 0.83	0.32 J	ND < 0.67	0.57 J	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB187	PCB Cong.	µg/kg			ND < 0 83	0.58 J	0 22 J	0.96	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB189	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB194	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0 67	ND < 0 76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0 60
EPA 8270C SIM	PCB201	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0 76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
EPA 8270C SIM	PCB206	PCB Cong.	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.76	ND < 0.67	ND < 0.66	ND < 0.66	ND < 0.60
	Total Detectable PCBs	PCB Cong.	µg/kg	22.7	180	ND	25.4	19.1	39.2	ND	ND	ND	ND

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Table 4-3.
Summary of Analytical Results for Vibracore Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	LA-5 Reference	Composite A	Composite A Lab Duplicate	Composite B	Subcomposite A1	Subcomposite A2	Subcomposite B1	Subcomposite B2
EPA 8270D (M)/TQ/EI	Allethrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Bifenthrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Cyfluthrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Cypermethrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Deltamethrin/Tralomethrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Fenpropathrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Fenvalerate/Esfenvalerate	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Fluvalinate	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Permethrin - (cis/trans)	Pyrethroids	µg/kg			ND < 1.7	ND < 1.3	ND < 1.3	ND < 0.77	ND < 0.68	ND < 0.66	ND < 1.3	ND < 1.2
EPA 8270D (M)/TQ/EI	Phenothrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 1.5	ND < 1.4	ND < 1.3	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Resmethrin/Bioresmethrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Tetramethrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	lambda-Cyhalothrin	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	ND < 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
EPA 8270D (M)/TQ/EI	Total Pyrethroids	Pyrethroids	µg/kg			ND < 0.83	ND < 0.67	ND < 0.67	N D< 0.77	ND < 0.68	ND < 0.66	ND < 0.67	ND < 0.59
Organotins By Krone et al.	Dibutyltin	Organotins	µg/kg			ND < 5.0	9.6	9.9	14	ND < 4.0	ND < 4.0	ND < 3.9	ND < 3.5
Organotins By Krone et al.	Monobutyltin	Organotins	µg/kg			ND < 5.0	ND < 4.0	ND < 4.0	ND < 4.6	ND < 4.0	ND < 4.0	ND < 3.9	ND < 3.5
Organotins By Krone et al.	Tetrabutyltin	Organotins	µg/kg			ND < 5.0	ND < 4.0	ND < 4.0	ND < 4.6	ND < 4.0	ND < 4.0	ND < 3.9	ND < 3.5
Organotins By Krone et al.	Tributyltin	Organotins	µg/kg			ND < 5.0	6.7	7.5	5.2	ND < 4.0	ND < 4.0	ND < 3.9	ND < 3.5
	Total Organotins	Organotins	µg/kg			ND	16.3	17.4	19.2	ND	ND	ND	ND

Notes:
J = concentrations greater than or equal to the method detection limit but less than the reporting limit; mg = milligram; kg = kilogram; µg = microgram, % = percent; ND = non-detect; ERL = effects range-low; ERM = effects range-median; PAH = polycyclic aromatic hydrocarbon; PCB = polychlorinated biphenyl congener; TRPH = total recoverable petroleum hydrocarbons; TPH = total petroleum hydrocarbons; LMW = low molecular weight, HMW = high molecular weight; EPA = Environmental Protection Agency; SIM = selective ion monitoring; TQ = triple quad, (M) = modified

Table 4-4.
Summary of Analytical Results for Geotechnical Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	BAE-GT-Comp A	BAE-GT-Comp B	BAE-GT Comp C
SM 2540 B (M)	Solids, Total	General Chemistry	%			78.8	82.3	87.2
EPA 9060A	Total Organic Carbon	General Chemistry	%			ND	ND	ND
SM 4500-NH_3 B/C (M)	Ammonia (as N)	General Chemistry	mg/kg			0.71	1.4	0.32
EPA 376.2M	Total Sulfide	General Chemistry	mg/kg			ND	ND	ND
EPA 376 2M	Dissolved Sulfide	General Chemistry	mg/kg			ND < 0.10	ND < 0.10	ND < 0.10
EPA 413.2M	Oil and Grease	General Chemistry	mg/kg			42	13	23
EPA 6020	Arsenic	Metals	mg/kg	8.2	70	3.36	1.79	1.17
EPA 6020	Cadmium	Metals	mg/kg	1.2	9.6	ND < 0.127	0.134	0.127
EPA 6020	Chromium	Metals	mg/kg	81	370	9.27	15.3	12 6
EPA 6020	Copper	Metals	mg/kg	34	270	18 3	13.7	9.97
EPA 6020	Lead	Metals	mg/kg	46.7	218	2.68	2.61	1.65
EPA 7471A	Mercury	Metals	mg/kg	0.15	0.71	ND < 0 0250	ND < 0.0256	ND < 0 0233
EPA 6020	Nickel	Metals	mg/kg	20.9	51.6	5.77	6.03	5.49
EPA 6020	Selenium	Metals	mg/kg			ND < 0.127	ND < 0.122	ND < 0.115
EPA 6020	Silver	Metals	mg/kg	1.0	3.7	ND < 0.127	ND < 0.122	ND < 0.115
EPA 6020	Zinc	Metals	mg/kg	150	410	35.1	38.6	33.9
EPA 8015B(M)	C6	TPH	mg/kg			ND < 6.3	ND < 6.1	ND < 5.6
EPA 8015B(M)	C7	TPH	mg/kg			ND < 6.3	ND < 6.1	ND < 5 6
EPA 8015B(M)	C8	TPH	mg/kg			ND < 6.3	ND < 6 1	ND < 5.6
EPA 8015B(M)	C9-C10	TPH	mg/kg			ND < 6.3	ND < 6.1	ND < 5.6
EPA 8015B(M)	C11-C12	TPH	mg/kg			ND < 6.3	ND < 6.1	ND < 5.6
EPA 8015B(M)	C13-C14	TPH	mg/kg			ND < 6 3	ND < 6.1	ND < 5.6
EPA 8015B(M)	C15-C16	TPH	mg/kg			ND < 6.3	ND < 6.1	ND < 5.6
EPA 8015B(M)	C17-C18	TPH	mg/kg			ND < 6.3	ND < 6.1	ND < 5.6
EPA 8015B(M)	C19-C20	TPH	mg/kg			ND < 6.3	ND < 6 1	ND < 5 6
EPA 8015B(M)	C21-C22	TPH	mg/kg			ND < 6.3	ND < 6.1	ND < 5.6
EPA 8015B(M)	C23-C24	TPH	mg/kg			ND < 6 3	ND < 6.1	ND < 5.6
EPA 8015B(M)	C25-C28	TPH	mg/kg			8.1	ND < 6.1	ND < 5.6
EPA 8015B(M)	C29-C32	TPH	mg/kg			17	ND < 6.1	ND < 5.6
EPA 8015B(M)	C33-C36	TPH	mg/kg			7.3	ND < 6.1	ND < 5 6
EPA 8015B(M)	C37-C40	TPH	mg/kg			6.5	ND < 6.1	ND < 5.6
EPA 8015B(M)	C41-C44	TPH	mg/kg			ND < 6.3	ND < 6.1	ND < 5.6

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Table 4-4.
Summary of Analytical Results for Geotechnical Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	BAE-GT-Comp A	BAE-GT-Comp B	BAE-GT Comp C
EPA 8015B(M)	C6-C44 Total	TPH	mg/kg			92	ND < 6.1	ND < 5.7
EPA 418.1M	TRPH	TRPH	mg/kg			38	ND < 12	17
EPA 8270C SIM	1-Methylnaphthalene	LMW PAH	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	1-Methylphenanthrene	LMW PAH	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	1,6,7-Trimethylnaphthalene	LMW PAH	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	2-Methylnaphthalene	LMW PAH	µg/kg	70	670	ND < 13	ND < 12	ND < 11
EPA 8270C SIM	2,6-Dimethylnaphthalene	LMW PAH	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Acenaphthene	LMW PAH	µg/kg	16	500	ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Acenaphthylene	LMW PAH	µg/kg	44	640	24	ND < 12	ND < 11
EPA 8270C SIM	Anthracene	LMW PAH	µg/kg	85.3	1100	ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Naphthalene	LMW PAH	µg/kg	160	2100	17	ND < 12	ND < 11
EPA 8270C SIM	Phenanthrene	LMW PAH	µg/kg	240	1500	73	ND < 12	ND < 11
EPA 8270C SIM	Fluorene	LMW PAH	µg/kg	19	540	ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Benzo (a) Anthracene	HMW PAH	µg/kg	261	1600	66	ND < 12	ND < 11
EPA 8270C SIM	Benzo (a) Pyrene	HMW PAH	µg/kg	430	1600	140	ND < 12	ND < 11
EPA 8270C SIM	Benzo (b) Fluoranthene	HMW PAH	µg/kg			110	ND < 12	ND < 11
EPA 8270C SIM	Benzo (g,h,i) Perylene	HMW PAH	µg/kg			190	ND < 12	ND < 11
EPA 8270C SIM	Benzo (k) Fluoranthene	HMW PAH	µg/kg			79	ND < 12	ND < 11
EPA 8270C SIM	Dibenz (a,h) Anthracene	HMW PAH	µg/kg	63.4	260	ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Chrysene	HMW PAH	µg/kg	384	2800	97	ND < 12	ND < 11
EPA 8270C SIM	DCPA	HMW PAH	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Fluoranthene	HMW PAH	µg/kg	600	5100	280	ND < 12	ND < 11
EPA 8270C SIM	Indeno (1,2,3-c,d) Pyrene	HMW PAH	µg/kg			150	ND < 12	ND < 11
EPA 8270C SIM	Isophorone	HMW PAH	µg/kg			ND < 130	ND < 120	ND < 110
EPA 8270C SIM	Pyrene	HMW PAH	µg/kg	665	2600	350	ND < 12	ND < 11
EPA 8270C SIM	Dibenzothiophene	HMW PAH	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Benzo (e) Pyrene	HMW PAH	µg/kg			100	ND < 12	ND < 11
EPA 8270C SIM	Perthane	HMW PAH	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Perylene	HMW PAH	µg/kg			40	ND < 12	ND < 11
EPA 8270C SIM	Benzoic Acid	HMW PAH	µg/kg			ND <130	ND < 120	ND < 110
EPA 8270C SIM	Biphenyl	HMW PAH	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Total Detectable PAHs	PAH	µg/kg	4022	44792	1716	ND	ND
EPA 8270C SIM	2,4,5-Trichlorophenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11

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Table 4-4.
Summary of Analytical Results for Geotechnical Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	BAE-GT-Comp A	BAE-GT-Comp B	BAE-GT Comp C
EPA 8270C SIM	2,4,6-Trichlorophenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	2,4-Dichlorophenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	2,4-Dimethylphenol	Phenol	µg/kg			ND < 13	26	ND < 11
EPA 8270C SIM	2,4-Dinitrophenol	Phenol	µg/kg			ND < 630	ND < 600	ND < 570
EPA 8270C SIM	2-Chlorophenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	2-Methylphenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	2-Nitrophenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	3/4-Methylphenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	4,6-Dinitro-2-Methylphenol	Phenol	µg/kg			ND < 630	ND < 600	ND < 570
EPA 8270C SIM	4-Chloro-3-Methylphenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	4-Nitrophenol	Phenol	µg/kg			ND < 630	ND < 600	ND < 570
EPA 8270C SIM	Pentachlorophenol	Phenol	µg/kg			ND < 630	ND < 600	ND < 570
EPA 8270C SIM	Phenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	2,3,4,6-Tetrachlorophenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	2,6-Dichlorophenol	Phenol	µg/kg			ND < 13	ND < 12	ND < 11
EPA 8270C SIM	Bis(2-Ethylhexyl) Phthalate	Phthalate	µg/kg			ND < 13	ND < 12	ND <11
EPA 8270C SIM	Butyl Benzyl Phthalate	Phthalate	µg/kg			ND < 13	ND < 12	ND <11
EPA 8270C SIM	Di-n-Butyl Phthalate	Phthalate	µg/kg			ND < 13	ND < 12	ND <11
EPA 8270C SIM	Di-n-Octyl Phthalate	Phthalate	µg/kg			ND < 13	ND < 12	ND <11
EPA 8270C SIM	Diethyl Phthalate	Phthalate	µg/kg			ND < 13	ND < 12	ND <11
EPA 8270C SIM	Dimethyl Phthalate	Phthalate	µg/kg			300	270	200
EPA 8081A	2,4'-DDD	Chlorinated Pesticides	µg/kg			ND < 1.3	ND <1.2	ND <1.1
EPA 8081A	2,4'-DDE	Chlorinated Pesticides	µg/kg			ND < 1.3	ND <1 2	ND <1.1
EPA 8081A	2,4'-DDT	Chlorinated Pesticides	µg/kg			ND < 1.3	ND <1.2	ND <1.1
EPA 8081A	4,4'-DDD	Chlorinated Pesticides	µg/kg	**2.0**	**20**	ND < 1.3	ND <1.2	ND <1.1
EPA 8081A	4,4'-DDE	Chlorinated Pesticides	µg/kg	**2.2**	**27**	ND < 1.3	ND <1.2	ND <1.1
EPA 8081A	4,4'-DDT	Chlorinated Pesticides	µg/kg	**1.0**	**7.0**	ND <.1 3	ND <1.2	ND <1.1
	Total Detectable DDTs	Chlorinated Pesticides	µg/kg	**1.58**	**46.1**	ND	ND	ND
EPA 8081A	Aldrin	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1 1
EPA 8081A	Alpha-BHC	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Beta-BHC	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Delta-BHC	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1

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Table 4-4.
Summary of Analytical Results for Geotechnical Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	BAE-GT-Comp A	BAE-GT-Comp B	BAE-GT Comp C
EPA 8081A	Gamma-BHC	Chlorinated Pesticides	µg/kg			ND < 1 3	ND < 1.2	ND < 1.1
EPA 8081A	Chlordane	Chlorinated Pesticides	µg/kg	0.5	6.0	ND < 13	ND < 12	ND < 11
EPA 8081A	Dieldrin	Chlorinated Pesticides	µg/kg	0.02	8.0	ND < 1 3	ND < 1.2	ND < 1.1
EPA 8081A	Trans-nonachlor	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Endosulfan I	Chlorinated Pesticides	µg/kg			ND < 1 3	ND < 1.2	ND < 1.1
EPA 8081A	Endosulfan II	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Endosulfan Sulfate	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Endrin	Chlorinated Pesticides	µg/kg			ND < 1 3	ND < 1.2	ND < 1.1
EPA 8081A	Endrin Aldehyde	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Endrin Keytone	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Heptachlor	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1 1
EPA 8081A	Heptachlor Epoxide	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Methoxychlor	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Toxaphene	Chlorinated Pesticides	µg/kg			ND < 25	ND < 24	ND < 23
EPA 8081A	Alpha Chlordane	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Gamma Chlordane	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Cis-nonachlor	Chlorinated Pesticides	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8081A	Oxychlordane	Chlorinated Pesticides	µg/kg			ND < 1 3	ND < 1.2	ND < 1 1
EPA 8270C SIM PCB Congeners	PCB018	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0 57
EPA 8270C SIM PCB Congeners	PCB028	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB037	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB044	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB049	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB052	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB066	PCB Congeners	µg/kg			ND < 0.63 J	ND < 0.61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB070	PCB Congeners	µg/kg			ND < 0.63 J	ND < 0.61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB074	PCB Congeners	µg/kg			ND < 0.63 J	ND < 0 61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB077	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB081	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB087	PCB Congeners	µg/kg			ND < 0 63	ND < 0 61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB099	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB101	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB105	PCB Congeners	µg/kg			ND < 0.63	ND < 0 61	ND < 0.57

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Table 4-4.
Summary of Analytical Results for Geotechnical Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	BAE-GT-Comp A	BAE-GT-Comp B	BAE-GT Comp C
EPA 8270C SIM PCB Congeners	PCB110	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB114	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB118	PCB Congeners	µg/kg			ND < 0.63	ND < 0 61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB119	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB123	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB126	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB128	PCB Congeners	µg/kg			ND < 0 63	ND < 0.61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB138/158	PCB Congeners	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8270C SIM PCB Congeners	PCB149	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB151	PCB Congeners	µg/kg			ND < 0.63 J	ND < 0.61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB153	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB156	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB157	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0 57
EPA 8270C SIM PCB Congeners	PCB167	PCB Congeners	µg/kg			ND < 0 63	ND < 0 61	ND < 0 57
EPA 8270C SIM PCB Congeners	PCB168	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB169	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB170	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB177	PCB Congeners	µg/kg			ND < 0.63 J	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB180	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB183	PCB Congeners	µg/kg			ND < 0 63 J	ND < 0 61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB187	PCB Congeners	µg/kg			ND < 0.63 J	ND < 0.61 J	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB189	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB194	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB201	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270C SIM PCB Congeners	PCB206	PCB Congeners	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
	Total Detectable PCBs	PCB Congeners	µg/kg	22.7	180	ND	ND	ND
EPA 8270D (M)/TQ/EI	Allethrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Bifenthrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Cyfluthrin	Pyrethroids	µg/kg			ND < 0 63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Cypermethrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0 61	ND < 0.57
EPA 8270D (M)/TQ/EI	Deltamethrin/Tralomethrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57

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Table 4-4.
Summary of Analytical Results for Geotechnical Sample Composites

Analytical Method	Compound Name	Type	Units	ERL	ERM	BAE-GT-Comp A	BAE-GT-Comp B	BAE-GT Comp C
EPA 8270D (M)/TQ/EI	Fenpropathrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Fenvalerate/Esfenvalerate	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Fluvalinate	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Permethrin - (cis/trans)	Pyrethroids	µg/kg			ND < 1.3	ND < 1.2	ND < 1.1
EPA 8270D (M)/TQ/EI	Phenothrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Resmethrin/Bioresmethrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Tetramethrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	lambda-Cyhalothrin	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
EPA 8270D (M)/TQ/EI	Total Pyrethroids	Pyrethroids	µg/kg			ND < 0.63	ND < 0.61	ND < 0.57
Organotins By Krone et al.	Dibutyltin	Organotins	µg/kg			ND < 3.8	ND < 3.6	ND < 3.4
Organotins By Krone et al.	Monobutyltin	Organotins	µg/kg			ND < 3.8	ND < 3.6	ND < 3.4
Organotins By Krone et al.	Tetrabutyltin	Organotins	µg/kg			ND < 3.8	ND < 3.6	ND < 3.4
Organotins By Krone et al.	Tributyltin	Organotins	µg/kg			ND < 3.8	ND < 3.6	ND < 3.4

Notes:
J = concentrations greater than or equal to method detection limit but less than reporting limit; ,mg = milligram; kg = kilogram; µg = microgram; % = percent; ND = non-detect; ERL = effects range-low; ERM= effects range-median, PAH = polycyclic aromatic hydrocarbon; PCB = polychlorinated biphenyl congener; TRPH = total recoverable petroleum hydrocarbon; TPH = total petroleum hydrocarbon; LMW = low molecular weight; HMW = high molecular weight; EPA = Environmental Protection Agency; SIM = selective ion monitoring, TQ = triple-quad, (M) = modified

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Table 4-3 and Figure 4-2a and 4-2b are summaries of the analytical results for vibracore composite and subcomposite samples. Total solids range between 65.2 and 83.8 percent in test sediments and are greater than total solids in the LA-5 Reference sediment (60.3 percent). Composite B is the only sample that contains a percent of total organic carbon (TOC) which is comparable to the LA-5 Reference sediments (1.0 to 1.3 percent). The remaining samples contain much less TOC (ranging from <0.066 to 0.38 percent). Ammonia was also detected in Composite B sediments at an elevated level compared to other test sediments and the LA-5 Reference sample. The concentration of ammonia is 14.0 milligrams per kilogram (mg/kg) in the Composite B sediments. This is approximately four times that of the LA-5 Reference sediment. Conversely, total sulfides are much less in test sediments compared to the LA-5 Reference.

The majority of the constituents analyzed in Project vibracore sediment samples are below effects levels. In Composite B, exceptions include two metals - arsenic (14.5 mg/kg) and mercury (0.424 mg/kg); two PAHs - acenaphthylene (54 micrograms per kilogram [µg/kg]) and benzo (a) pyrene (510 µg/kg); and total PCB congeners (39.2 µg/kg) above ERL guidelines. In Composite A, the only exception is total PCB congeners (25.4 µg/kg) detected at a level just above the ERL guideline value (22.7 µg/kg). No other chemical analytes are above ERL guidelines. None of the subcomposites contain chemical analytes above ERL guidelines.

4.2.3 Geotechnical Samples

The geotechnical sample composites contain no analytes above effects levels (Table 4-4, Figure 4-2a, 4-2b, and 4-2c). The majority of the analytes are non-detect with the exception of ammonia, oil and grease, metals (arsenic, cadmium, chromium, copper, lead, and nickel), total petroleum hydrocarbons (TPH), total recoverable petroleum hydrocarbons (TRPH), and several PAHs in BAE-GT-Comp A (in the recent bay/Holocene deposits only). Additionally, the percent of total solids increases with depth into the native material. Total solids are 78.8, 82.3, and 87.2 percent for Comp A, B, and C, respectively. TOC was non-detect and ammonia concentrations are 0.71, 1.4, and 0.32 mg/kg for Comp A, B, and C, respectively. TOC concentrations are non-detect for all three composite samples. In general, sample results indicate there are more analytes detected in younger more recently deposited sediments compared to older.

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5.0 TOXICITY EVALUATION RESULTS

SPP toxicity testing was conducted on an aqueous elutriate prepared from each composite area sediment sample. SP toxicity and BP exposure tests were also conducted on the composite area samples in addition to the LA-5 reference sample. Tissues of the organisms exposed to the samples were analyzed for contaminants of concern in all samples. Toxicity testing methods followed USACE- and USEPA-approved methods as outlined in the Project SAP.

All toxicity and bioaccumulation exposures were conducted at Nautilus. Control sediment used for the SP toxicity and BP tests consisted of native sediment collected at the same sites where organisms were collected for amphipods and clams. Clean seawater (zero percent elutriate) was used as the control in the SPP tests. The test species used, and endpoints assessed were:

- Suspended-particulate phase (SPP) tests:
  - Mysid shrimp (*Americamysis bahia*) 96-hr survival
  - Inland silverside fish (*Menidia beryllina*) 96-hr survival
  - Mussel larvae (*Mytilus galloprovincialis*) 48-hr survival and development
- Solid-phase (SP) tests:
  - Amphipod (*Eohaustorius estuarius*) 10-day survival
  - Marine polychaete worm (*Neanthes arenaceodentata*) 10-day survival
- Bioaccumulation phase (BP) test:
  - Polychaete (*Neanthes* [formerly *Nereis*] *virens)* 28-day bioaccumulation potential test
  - Bivalve (*Macoma nasuta)* 28-day bioaccumulation potential test

The SP organisms used for this study met the Green Book requirement that at least two of the benthic species tested be from filter-feeding, deposit-feeding, or burrowing species. *E. estuarius* is a burrowing filter feeder; *N. arenaceodentata* is a burrowing deposit feeder.

Results of the SPP, SP, and BP survival tests are provided in Tables 5-1, 5-2, and 5-3, respectively. A complete results report prepared by Nautilus is in Appendix D.

5.1 Suspended-Particulate-Phase Test

Results of the SPP tests for the Project are summarized in Table 5-1. SPP tests were initiated on June 10, 2014 for mysid shrimp and inland silversides, and June 12, 2014 for mussel embryos.[3] A statistically significant effect relative to a laboratory control was observed in the undiluted (100 percent) elutriate for mussel larvae exposed to sediment from Composite B. Mean combined survival/normal development for this sample is 0.0 percent and the median effects concentration (EC_{50}) is 73.3 percent. The effects observed in the development of mussel embryos may have been related to elevated ammonia levels (see Appendix D Section 4.5.1).

[3] Mussel testing was scheduled for 6/10/14, but adult mussel did not spawn and embryos were not available for test initiation. A separate elutriate was prepared for mussel testing two days after the other SPP tests.

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The EC_{50} for all other tests is >100 percent and mean combined survival/normal development for organisms exposed to test sediments are not statistically different compared to organisms exposed to the control sample.

Table 5-1.
Summary of Toxicity Test Results—Suspended-Particulate Phase

Location	Elutriate Concentration (%)	Mysid Mean Survival (%)	Inland Silverside Mean Survival (%)	Mussel Mean Combined Survival/ Normal Development (%)
Laboratory Control	—	100	94	88
Composite A	1	—	—	93
	10	100	100	90
	50	96	96	79
	100	100	98	80
EC_{50} (% elutriate)[1]	—	>100	>100	>100
Composite B	1	—	—	84
	10	98	96	78
	50	100	86	87
	100	96	98	0.0*
EC_{50} (% elutriate)[1]	—	>100	>100	73.3[2]

Notes:
1. An EC_{50} of >100 percent indicates that there was greater than 50 percent survival/normal larvae in the 100 percent elutriate concentration.
2. According to the toxicity testing laboratory, the effects observed in the development of mussel embryos may have been related to elevated ammonia levels (see Appendix D Section 4.5.1).

* indicates a statistically significant decrease compared to the laboratory control.
% = percent; EC_{50} = median-effect concentration or the concentration estimated to cause an adverse effect to 50 percent of the organisms (calculated based on dose response); - = not tested.

5.2 Solid-Phase Test

Results of the SP tests for organisms exposed to sediments collected for the proposed Project are summarized in Table 5-2. Mean organism survival for organisms exposed to control samples for the SP tests met the acceptability criterion of ≥90 percent.

5.2.1 Amphipod Survival

The 10-day SP benthic test with *E. estuarius* was initiated on June 3, 2014. The test is validated by 97 percent survival in the native control sample.

Mean percent survival of *E. estuarius* in the reference sample is 92 percent compared to 94 and 81 percent in Composite A and B, respectively. Mean survival of amphipods exposed to Composite B is significantly less compared to organisms exposed to LA-5 reference sediment; however, the mean percent survival in all treatments (including Composite B) are within 20 percent of the reference. This indicates that the test treatments met the LPC for benthic toxicity, as defined in the Green Book (USEPA/USACE, 1991).

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5.2.2 Polychaete Survival

The 10-day SP benthic test with *N. arenaceodentata* was initiated on May 30, 2014. Polychaete survival in control sediment is 100 percent. Survival for organisms exposed to the LA-5 reference sediment is 96 percent. Mean survival of polychaetes in the test sediments is 100 percent for Composite A and 96 percent for Composite B.

Mortality in the test sediments did not exceed that in the respective LA-5 reference sample by more than 10 percent; therefore, all samples meet the LPC for benthic toxicity, as defined in the Green Book. (USEPA/USACE, 1991)

Table 5-2.
Summary of Toxicity Test Results—Solid Phase

Location	*Neanthes arenaceodentata* Mean Survival (%)	*Eohaustorius estuarius* Mean Survival (%)
Laboratory Control[1]	100	97
LA-5 Reference	96	92
Composite A	100	94
Composite B[1]	96	81*

Notes:
1. Laboratory controls were native sediments collected at the same time as organism collection for *E. estuarius* and clean, rinsed beach sand collected near Scripps Pier for *N. arenaceodentata*. Both samples were sieved to 0.5 millimeters prior to test initiation.
* = value is statistically significant compared to the reference sediment (one-tailed Student's t-test, $p \leq 0.05$) but within 20 percent of the reference survival level.
% = percent

5.3 Bioaccumulation-Phase Test and Results

The 28-day bioaccumulation test was initiated on June 11, 2014; survival summaries are in Table 5-3. After 28-days of exposure to control and reference sediments, mean survival is 89 and 98 percent in control sediment, and 91 and 94 percent in LA-5 reference sediment for *M. nasuta* and *N. virens*, respectively. In addition, survival in test sediments was 88 and 81 percent for *M. nasuta*, and 92 and 84 percent for *N. virens* for Composite A and B, respectively. Polychaete survival is significantly less in Composite B compared to LA-5 reference ($p = 0.011$). Bioaccumulation potential for analytes is evaluated in Sections 5.3.1 and 7.4 of this report.

Table 5-3.
Summary of Bioaccumulation Phase Survival Results

Location	*Neanthes virens* Mean Survival (%)	*Macoma nasuta* Mean Survival (%)
Laboratory Control	98	89
LA-5 reference	94	91
Composite A	92	88
Composite B	84	81

Notes:
% = percent

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5.3.1 Bioaccumulation-Phase Tissue Chemistry

All tissue results presented below are in wet-weight units. When results were reported as non-detect, or less than the reporting limit (RL) defined in the project specific SAP, the RL value was used for statistical comparison. One-tailed t-tests recommended by the Green Book and ITM (USACE/USEPA 1991, 1998) were used to statistically compare concentrations of contaminants in the tissue of organisms exposed to the test sediment to those of the reference tissues. [4]

Analytical reports from Eurofins Calscience for tissue chemistry are provided as Appendix E.

5.3.2 Metal Bioaccumulation in Clam and Worm Tissues

Results of the metal bioaccumulation analyses in clams and polychaete worm tissues are summarized in Table 5-4. The table shows the means and standard deviations of up to five replicates analyzed for each test treatment (i.e., LA-5 reference, Composite A, and Composite B).

5.3.3 Organic and Pesticide Bioaccumulation in Clam and Worm Tissues

Table 5-5 summarizes the concentrations of total DDTs, benzo(a)pyrene, total PAHs, and total PCB congeners in clam and worm tissues exposed to test and reference sediments for 28 days. Note that the concentrations of several individual PAHs and PCB congeners that were statistically greater in tissues exposed to test sediment, compared to tissues exposed to LA-5 reference sediment, are not listed in Table 5-5; results of these comparisons are in the summary tables in Appendix E.

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[4] Results for PCB congener concentrations in tissue samples were re-evaluated by the analytical laboratory due to instrument contamination. Due to low sample mass available after initial testing; the analytical lab omitted results for three replicates from one replicate exposed to Composite A sediments and 2 replicates exposed to Composite B sediments.

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Table 5-4.
Bioaccumulation Results for Metals

Compound	Unit (wet weight)	Analytes Measured in Clam Tissue						Analytes Measured in Worm Tissue					
		LA-5 reference		Composite A		Composite B		LA-5 reference		Composite A		Composite B	
		Mean	1 SD	Mean	1 SD	Mean	1 SD	Mean	1 SD	Mean	1 SD	Mean	1 SD
Arsenic	mg/kg	2.99	0.284	3.02	0.428	2.74	0.448	2.89	0.457	2.90	0.271	2.57	0.248
Cadmium		ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Chromium		0.212	0.0222	0.265	0.0755	**0.321**	0.0311	0.241	0.120	0.180	0.0367	0.133	0.0219
Copper		0.966	0.166	**1.31**	0.263	1.50	0.770	1.24	0.321	**1.76**	0.108	1.46	0.231
Lead		0.129	0.0204	**0.253**	0.0253	**0.363**	0.0726	0.117	0.0191	**0.145**	0.0146	0.140	0.0483
Mercury		0.0108	0.000618	0.0149	0.00317	0.0152	0.00217	0.0294	0.00677	0.0231	0.00401	0.0253	0.00272
Nickel		0.470	0.0218	0.400	0.0333	0.433	0.0902	0.391	0.0903	0.260	0.0269	0.259	0.0318
Selenium		0.220	0.0420	0.213	0.0368	0.200	0.0362	0.315	0.0340	0.284	0.0222	0.315	0.0270
Silver		ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Zinc		12.6	1.73	19.5	11.0	13.3	2.39	24.7	3.44	30.7	6.31	26.8	10.3

Notes:

BOLD = results of t-test are significant when compared to reference ($p \leq 0.05$);

— = analyte was detected in only one replicate, therefore no SD; mg/kg = milligrams per kilogram (wet weight); ND = result is non-detect for all five replicates; SD = standard deviation

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Table 5-5.
Bioaccumulation Results for Organics

Compound Name	Unit (wet weight)	Analytes Measured in Clam Tissue						Analytes Measured in Worm Tissue					
		LA-5 reference		Composite A		Composite B		LA-5 reference		Composite A		Composite B	
		Mean	1 SD	Mean	1 SD	Mean	1 SD	Mean	1 SD	Mean	1 SD	Mean	1 SD
Total DDTs	µg/kg	1.40	0.141	2.30	-	ND	-	ND	-	ND	-	1.40	-
Benzo(a)Pyrene		ND	-	**13.0***	3.20	**29.4***	4.77	ND		ND	-	ND	-
Total PAHs		ND	-	**52.4***	41.3	**288***	68.1	11.0		ND	-	**42.6**	11.5
Total PCBs		ND	-	**6.54***	2.56	1.36	0.410	5.58	3.51	**36.0**	8.57	**26.3**	4.94

Notes:

BOLD = significant t-test results when compared to reference ($p \leq 0.05$); **BOLD*** = Significant analyte is compared to a ND reference value.

— = detection of analyte occurred in only one replicate, therefore no SD; µg/kg = micrograms per kilogram (wet weight); ND = result is non-detect for all five replicates; SD = standard deviation

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6.0 DATA QUALITY ASSURANCE AND QUALITY CONTROL

A thorough QA/QC review was conducted by the analytical and toxicity laboratories as well as by internally qualified AMEC QA/QC specialists. All reported measures for physical, chemical, and biological testing were found acceptable for reporting purposes and are considered valid. Any deviations from specific QA/QC measures were considered minor, and are summarized below for sediment and tissue analytical chemistry samples. Further details are in the analytical chemistry and toxicity reports in Appendices C, D, and E.

6.1 Bulk Sediment Chemistry Data Quality

Bulk sediment chemistry was evaluated for vibracore sample composites and sub-composites approximately two months prior to the geotechnical samples. Vibracore sample composites were created by AMEC scientists in the field. Individual geotechnical samples were placed on ice and composited by the analytical laboratory for analysis.

6.1.1 Vibracore Samples

Vibracore samples were received under chain-of-custody on 5/22/2014 and were assigned work order 14-05-1754. Unless otherwise noted on the sample receiving form, all samples were received in good condition and within the recommended EPA temperature criteria for methods noted on the chain-of-custody. The chain-of-custody and sample receiving documents are integral elements of the analytical report and are presented at the back of the report in Appendix C.

Holding Times
All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Eurofins Calscience sample acceptance policy.

Calibration
Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits
All method detection limits (MDL) were met.

Blanks
Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Laboratory Control Samples
A laboratory control sample (LCS) analysis was performed at the required frequencies and were within the established control limits.

Matrix Spikes
Matrix spike (MS) analyses were performed for each applicable analysis on project sample LA-5 reference. All parameters for the project sample MS were within the established control limits with the following exceptions.

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- The TOC MS duplicate (D) recovery was just below the control limits. However, the MS, LCS and LCSD recoveries were in control so the results are released as-is.
- The TPH-Diesel (for Carbon Chain) MSD and relative percent difference (RPD) fell outside the control limits. The results have been flagged with the appropriate qualifiers and are released with no further action.
- The deltamethrin/tralomethrin MS and MSD recoveries were above the established control limits. However, the samples were ND for pyrethroids and the LCS recoveries were in control, so the results are released with no further action.
- Several of the EPA 8081A MS, MSD and/or were outside the established control limits. The results have been flagged with the appropriate qualifiers and are released with no further action since the associated LCS/LSCD recoveries were in control.

Surrogates
Surrogate recoveries for all applicable tests and samples were within the established control limits.

Laboratory Duplicate
A laboratory duplicate was created for Composite A and analyzed for all analyses except ammonia, total sulfide, and dissolved sulfide. The RPDs between the duplicates were acceptable.

6.1.2 Geotechnical Samples

Samples were received under chain-of-custody on 07/23/14. They were assigned to work order 14-07-1633 and 14-07-34. Unless otherwise noted on the sample receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the chain-of-custody. The chain-of-custody and sample receiving documents are integral elements of the analytical report and are presented at the back of the analytical report in Appendix C.

Holding Times
All samples were analyzed within prescribed HT or in accordance with the Eurofins Calscience sample acceptance policy except metals. However, the samples were frozen after collection (prior to holding time expiration) at -18°C, and remained frozen until received at the lab. Eurofins Calscience follows Surface Water Ambient Monitoring Program (SWAMP) criteria and the Puget Sound Protocol (USEPA/PSWQAT, 1997, Table 2) for holding times in sediment samples, which states holding times may be extended up to six months to one year (two years for metals) if stored frozen at -18°C after collection. Therefore, the sample results have not been flagged as exceeding the EPA Method recommended holding times.

Calibration
Frequency and control criteria for initial and continuing calibration verifications were met.

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Reporting Limits
All Method Detection Limits were met.

Blanks
Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

Laboratory Control Samples
A LCS analysis was performed at the required frequencies, and unless otherwise noted, all parameters were within the established control limits.

Matrix Spikes
Matrix spike analyses were performed for each applicable analysis on Project samples. All parameters for the project sample matrix spikes were within the established control limits with the following exceptions.

- The TRPH and TPH-diesel (for carbon chain) MS and MSD recoveries were below the control limits. The results have been flagged with the appropriate qualifiers and are released with no further action.
- The mercury, arsenic, copper and zinc MS and/or MSD recoveries were outside the established control limits. However, LCS recoveries were in control, so the results are released with no further action.
- The tetrabutyltin and tributyltin RPD, MS and/or MSD results were outside the established control limits. The results have been flagged with the appropriate qualifiers and are released with no further action since the associated LCS/LSCD recoveries and RPDs were in control.

Surrogates
Surrogate recoveries for all applicable tests and samples were within the established control limits.

6.2 Toxicity Evaluation Data Quality

All of the data presented have been thoroughly reviewed and are deemed acceptable for reporting in accordance with our internal QA/QC program and relevant protocols. All toxicity and bioaccumulation tests were initiated within sediment holding time requirements. Any deviations with respect to test conditions and acceptability criteria are summarized below. All deviations were determined to be minor with no bearing on the data or its final interpretation.

Reference Toxicant Tests
Reference toxicant charts for Nautilus are provided in Appendix C of the toxicity report (Appendix D). All laboratory controls for reference toxicant tests met test acceptability criteria. All median lethal and effects concentrations were within 2 standard deviations of internal control chart limits for all species tested except *N. arenaceodentata* and the mysid shrimp. Comparisons to reference toxicant tests indicated that *N. arenaceodentata* was shown to be

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less sensitive to cadmium than previously observed while mysid shrimp were more sensitive to copper than is typical.

Suspended-Phase Toxicity Tests

Fish and mysid survival exceeded the 90 percent criterion in all lab controls. Mussel survival and development met both criteria with greater than 70 percent survival and greater than 70 percent normal shell development of surviving embryos in laboratory controls. Water quality measurements were within specified ranges for the duration of the tests for all species. Twenty *M. beryllina* instead of 10 were added to all five replicates of the Composite A 50 percent elutriate concentration. Mean survival in the 50 percent test concentration was 96 percent, comparable to the control and other test concentrations; therefore this deviation did not appear to affect test results.

Subsamples for ammonia measurement in the bivalve elutriate concentrations were not collected at test initiation due to technician error; therefore 48 hour measurements were used to evaluate potential effects due to ammonia. The 48 hour ammonia reference toxicant test ammonia measurements were comparable to nominal concentration indicating that the 48 hour levels were representative of actual exposure. Therefore, interpretation of these results is deemed reliable.

Solid-Phase Toxicity Tests

Laboratory control performance for both SP tests met minimum test acceptability criteria. All other test acceptability criteria were met and water quality values were within acceptable ranges as defined by the test protocols for both species.

The overlying water was replaced for four days in the Composite B sample to purge ammonia from the sample prior to addition of amphipods. Guidance for this process is described in EPA 1994 for use when ammonia is present at toxicologically important levels. The total and unionized ammonia in the Composite B sample at sample receipt was 37.1 and 0.783 milligrams per liter (mg/L), respectively. The no effect concentrations published in EPA 1994 for *E. estuarius* are 60 and 0.8 mg/L for total and unionized ammonia. The amount of unionized ammonia (the more toxic form of ammonia) in the sample warranted ammonia purging prior to test initiation. After the four day purging, ammonia levels were reduced to 12.9 mg/L total ammonia and 0.232 mg/L unionized ammonia. Internal studies at Nautilus have shown that *N. arenaceodentata* are less sensitive to ammonia (February 2014 EC_{50} 272 mg/L total ammonia); therefore no ammonia purging was conducted for this species.

Bioaccumulation-Phase Tests

Mean clam and worm survival in laboratory control sediment was 89 and 98 percent, respectively, and the minimum tissue requirement for chemical analysis was met for all samples. Water quality parameters satisfied test protocol requirements and the data were considered valid without further qualification.

Potential Confounding Factors

The influence of several potential confounding factors on test performance and interpretation were assessed and are discussed below.

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Ammonia

Total and un-ionized ammonia concentrations are summarized in Tables 12 through 15 of the Nautilus toxicity report in Appendix D. Unionized ammonia, the more toxic form of ammonia; values were calculated from total ammonia measurements (Hampson 1977). Ammonia concentrations were well below concentrations expected to be toxic in the Composite A tests. However, the Composite B sample was received with elevated ammonia levels and measures were taken to control ammonia as a confounding factor where appropriate (see Solid-Phase Toxicity Tests in this section of this document). The only SP test to show significant toxicity was the amphipod Composite B SP test, in which survival was significantly reduced from LA-5 reference.

Total and un-ionized ammonia concentrations in the sediment pore water were below published toxic thresholds for this species at the time of initiation. Additionally, the LC_{50} for the concurrent reference toxicant test was 162 mg/L total ammonia, well above 12.9 mg/L that was observed in the Composite B pore water at test initiation. Thus, the toxicity observed in the Composite B amphipod test is not likely attributable to ammonia. However, Composite B met the LPC for benthic toxicity in the amphipod test as defined in the Green Book (USEPA/USACE 1991).

Total and un-ionized ammonia was above threshold levels for *M. galloprovincialis* in the in the Composite B SPP test. Total ammonia in the undiluted elutriate sample was 10.9 mg/L; the EC_{50} for the concurrent reference toxicant test was 11.0. Thus, ammonia was likely a contributing factor for toxicity observed to mussel larvae.

6.3 Bioaccumulation Tissue Chemistry Data Quality

Thirty tissue samples were received by Eurofins Calscience for this Project on 14 July 2014. The samples were transferred to the laboratory in an ice-chest on ice, following strict chain-of-custody procedures. The temperature of the samples upon receipt at the laboratory was -3.7°C. All samples were given laboratory identification numbers, logged into the Laboratory Information Management System (LIMS) and then stored in freezers pending homogenization and chemistry testing.

Holding Times

All holding times were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Reporting Limits

All MDLs were met.

Method Blanks

Concentrations of target analytes in the method blank were found to be below reporting limits for all testing.

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Laboratory Control Samples
A LCS analysis was performed at the required frequencies, unless otherwise noted, all parameters were within the established control limits.

Matrix Spikes
MS analyses were performed for each applicable analysis on Project samples. All parameters for the MS were within the established control limits with the following exceptions.

- The zinc MS, MSD and/or RPD values were outside the control limits in both QC batches. The results have been flagged with the appropriate qualifiers and are released with no further action.
- For one of the two QC batches, the mercury MSD recovery was outside the control limits. The results are released with no further qualification since the LCS/LCSD values were within the control limits.
- For EPA 8081A, the beta-BHC and endrin aldehyde MS, MSD and/or RPD values were outside control limits in both QC batches. The results have been flagged with the appropriate qualifiers and are released with no further action since the LCS and LCSD recoveries and RPDs were in control.
- The MS/MSD recoveries and/or RPDs for one or more PAHs were outside the control limits in two QC batches. Since the LCS and LCSD recoveries and RPDs were in control, the results are released with no further action.

Surrogates
Surrogate recoveries for all applicable tests and samples were within the established control limits.

PCB Congeners
The initial report released showed unusually high levels of PCB congeners for several tissue samples, and the individual congeners reported did not necessarily match those found in the corresponding sediment data. However, since all raw data was re-checked and appeared to be correct, the data was released. Although there was nothing apparent in the analytical data or prep logs that would indicate a problem, upon further review of the data, PCB contamination from glassware was suspected as a possible cause of the unusually high PCB detections. As a result, the samples were re-extracted and reanalyzed for PCBs using new glassware. Because the subsequent testing showed dramatically different data versus the original data set, and the original PCB data has been replaced. Unfortunately, for three of the samples, there was insufficient sample remaining for re-extraction and since the original data is considered suspect, PCBs are not reported for these samples.

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7.0 DISCUSSION OF RESULTS

To determine the quality of all Project sediments and their potential suitability for unconfined aquatic disposal, this sediment characterization study evaluated samples using varying degrees of analysis. The study was designed to gain an understanding of sediment quality for recent unconsolidated bay deposits as well as native material within the Project footprint. Table 7-1 is a summary of each sample type, collection method, and analysis; in addition to the Green Book test tier and reasoning for each level of evaluation.

7.1 Grain Size Results

Contrary to general rules for sediment transport, the results of the grain size analysis for the recent bay deposits (vibracore samples) indicate that sediments further from shore are coarser than those closer to the BAE Systems bulkhead (Table 4-1). Recent bay deposits collected from Composite Area A contain higher proportions of sand (range 7.86 to 80.4 percent; Composite A = 81.3 percent sand) than Composite Area B (range 0.0 to 36.5 percent sand; Composite B = 0.0 percent sand) and sand proportions are higher in the two cores closer to shore compared to the two further away in both composite areas. This trend agrees with bathymetric data that indicates a larger quantity of unconsolidated sediment accumulation closer to the BAE Systems bulkhead/shoreline.

In general, native sediment deposits (geotechnical samples) are predominantly fine grained (in the three composite samples). The percentage of fines range between 43.3 and 93.1 percent, while total sand percentages range between 6.9 and 56.7 percent) with low proportions of sand and high proportions of silt (Table 4-2). Conversely, the transition layer sediments collected using a vibracore are dominantly sand; likely due to higher proportions of shell hash and gravel (Figure 4-1). The only native sediment sample with more than 80 percent sand is sample B-5-3, which is considered a recent bay/Holocene deposit. In addition, the mean grain size of sediments decreases while the proportion of fines increases with depth into the Project footprint (deeper/older sediments).

7.2 Sediment Chemistry Results

Overall, general chemistry parameters (in particular, ammonia concentration in vibracore Composite B) are higher in composite area sediments, compared to the LA-5 reference sediments (Table 4-3). In addition, TOC concentrations were generally low (ranging from non-detect to 1.0 percent in test sediments). All of the analytes are present in concentrations well below ERM guideline values, and the vast majority of the analytes are below ERL guidelines (with the exception of two metals, two PAHs and total PCB congeners in Composite B and total PCB congeners in Composite A, Figures 4-2a and 4-2b). However, all of the analytes detected above these values in test sediments are less than 1.7 times greater than the ERL guideline.

In the geotechnical samples, total solids range between 78.8 and 87.2 percent, but the percent of TOC is non-detect for all three composite samples. Overall, the majority of the analytes evaluated for the geotechnical study were non-detect with the exception of several naturally occurring compounds including metals, PAHs, TPH, and TRPH (Table 4-3, Figures 4-2a through 4-2c). All of the analytes detected in the geotechnical samples are present in

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concentrations well below ERL guideline values are generally not considered to be of concern when evaluating sediment disposal options.

Table 7-1.
Sample Types and Analysis

Sample Type[1]	Collection Method	Analysis	Green Book Testing Tier	Reason for Level of Evaluation
Recent Bay/ Unconsolidated Sediment Deposit	Vibracore	1. Chemical Analysis 2. Physical Analysis 3. Toxicity/Bioassay 4. Bioaccumulation Tissue Chemistry Analysis	Tier III	Recent Bay deposits may be influenced by current and recent historic uses and/or anthropogenic influence. Additional physical analysis on individual core samples for beneficial reuse consideration.
Recent Bay/ Unconsolidated Sediment Deposit – Transition Layer	Vibracore	1. Chemical Analysis 2. Physical Analysis 3. Toxicity/Bioassay 4. Bioaccumulation Tissue Chemistry Analysis	Tier III	Transition layer included with unconsolidated samples for full Tier III. Evaluated for additional analytical chemistry separately to determine if the top layer of native sediments are free of contaminants.
Recent Bay/Holocene Deposits	Geotechnical Boring	1. Chemical Analysis 2. Physical Analysis	Modified Tier II	Representative samples from across native deposit[1] were composited for chemical and physical testing to evaluate sediment quality. Additional physical analysis on individual randomized samples for beneficial reuse consideration.
Younger Quaternary Deposits	Geotechnical Boring	1. Chemical Analysis 2. Physical Analysis	Modified Tier II	Representative samples from across native deposit[1] were composited for chemical and physical testing to evaluate sediment quality. Additional physical analysis on individual randomized samples for beneficial reuse consideration.
Older Quaternary Deposits to -65 feet MLLW	Geotechnical Boring	1. Chemical Analysis 2. Physical Analysis	Modified Tier II	Representative samples from across native deposit[1] were composited for chemical and physical testing to evaluate sediment quality. Additional physical analysis on individual randomized samples for beneficial reuse consideration.

Notes:
[1] - Age and strata determined by TerraCosta Professional Geologists and Engineers.

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7.3 Toxicity Evaluation Results

Toxicity evaluations were performed for vibracore samples that collected recent bay/unconsolidated sediments only. Overall, the results of the toxicity evaluation agree with the analytical results. There were a few instances where toxicity test results did not meet acceptable QA/QC criteria, including physical water quality parameters and reference toxicant test results. These deviations are discussed in detail in Section 6.2. However, required percent survival in all laboratory control samples were met, indicating the use of healthy organisms and proper test conditions. The results of the toxicity evaluation are discussed further in this section.

7.3.1 Suspended-Particulate-Phase Tests

Results of the SPP acute exposure tests indicated that EC_{50} values were >100 percent[5] for mysids and inland silversides. No significant toxicity was observed in either of these water column tests; however, the EC_{50} was 73 percent for mussel larvae exposed to Composite B sediments due to 0.0 percent survival in the 100 percent elutriate concentration. This result is likely due to a confounding factor, un-ionized ammonia. Un-ionized ammonia concentrations were present at levels similar to the maximum tolerance threshold in the concurrent reference toxicant test (10.9 and 11.0 mg/L for Composite B and the reference toxicant test, respectively).

These results indicate that the test sediments meet the LPC for water column tests, as defined in the Green Book (USEPA/USACE, 1991).

7.3.2 Solid-Phase Tests

Significant differences between survival in the project treatments and the reference were observed in sample Composite B for the *E. estuarius* test. However, while statistically significant differences were observed for this sample, the percent mortality in this treatment is not 20 percent or more greater than the percent mortality in the LA-5 reference sediment. Twenty percent is the accepted percent difference for exceeding the LPC for benthic toxicity in amphipods as defined in the Green Book (USEPA/USACE, 1991).

7.4 Bioaccumulation-Phase Tests and Results

To determine the potential for bioaccumulation, clam and worm tissues were analyzed for COCs following a 28-day exposure to the composited sediments from each dredge footprint. Compliance with ocean disposal requirements for bioaccumulation was then evaluated in four ways:

- Concentrations of chemical analytes detected in clams and worms exposed to test sediments were statistically compared to their counterparts exposed to LA-5 reference sediment;
- Metal and organic concentrations observed in the test tissue were compared to the U.S. Food and Drug Administration (FDA) action levels for chemicals in fish and shellfish;

[5] An LC_{50}/EC_{50} of >100 percent indicates that there was greater than 50 percent survival/normal larvae in the 100 percent elutriate concentration.

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- Bioconcentration factors (BCFs) were calculated by dividing tissue concentrations by sediment concentrations; BCFs were calculated only for those constituents that were significantly elevated in the test sediments relative to those in the reference sediment; and
- Comparison of applicable chemical analytes (i.e. those found to be significantly greater in tissues exposed to test sediments compared to tissues exposed to reference sediments) to values in the Environmental Residue Effects Database (USACE/USEPA, 2009) (ERED). The ERED contains toxic effects levels for a variety of organisms and endpoints (i.e., survival, mortality, and growth) similar to those used for Green Book testing. Comparisons of test tissue results to the ERED were used to evaluate whether tissue concentrations in this study are above documented effects levels.

The bioaccumulation tissue test results are summarized below and a full tissue chemistry report from Eurofins Calscience and statistical test results are provided in Appendix E.

7.4.1 Bioaccumulation Exposure Statistical Comparisons

Statistical comparisons (one-tailed, unpaired t-tests) were used to determine whether the concentrations of chemicals in tissues exposed to test sediments are statistically greater ($p \leq 0.05$) than their counterparts exposed to ocean reference sediments. If analyte concentrations in test tissues were the same or lower than their corresponding LA-5 reference sample concentrations, no statistical comparison was necessary.

Statistically elevated constituents are presented in Section 5.3.2 and 5.3.3; Tables 5-5, 5-6, 7-2, and 7-3; and Appendix E. The concentrations that were statistically elevated in tissues from clams and worms exposed to selected test sediments, compared to the LA-5 reference sediment, are:

- Three metals (chromium, copper, and lead), and
- The organic compound totals for PAHs and PCB congeners in addition to several individual PAHs and PCB congeners (listed in Appendix E).

In clam tissues, statistically elevated metal concentrations are not more than 2.8 times higher in test tissues compared to those exposed to LA-5 reference sediments. In worm tissues, test site exposures not more than 1.5 times that of the LA-5 reference (Table 7-2). All statistically elevated metals were detected in both test and LA-5 reference sediments; none of the comparisons were made to a non-detect value.

Conversely, concentrations of individual PAHs and PCB congeners are mostly non-detect in organism tissues exposed to LA-5 reference sediments. Total PAHs and PCBs are also non-detect in clam tissues exposed to LA-5 reference sediments, but not in worm tissue. Where tissue concentration totals are non-detect, statistical analysis between test and LA-5 reference tissues is conducted using the RL for all five replicates. Therefore, all statistical comparisons to the LA-5 reference tissues are calculated using estimated concentration values. For total PAHs, concentrations detected in clam test tissues are 5.24 and 28.8 times the LA-5 reference tissue

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concentration for Composite A and B, respectively. In worm test tissues, total PAHs are 3.87 times the LA-5 reference tissue concentration in Composite B; total PAHs in Composite A are not significantly greater. For total PCB congeners, detections in clam test tissues are 13.1 times the LA-5 reference tissue concentrations for Composite A; in worm test tissues, they are 6.45 and 4.71 times higher in Composite A and B, respectively (Table 7-3).

Table 7-2.
Test Tissues with Statistically Elevated Bioaccumulation of Trace Metals

Analyte	Composite	Test Organism	Unit (Wet Weight)	Average Concentration		Times Above Reference
				Reference Tissue	Test Tissue	
Copper	Composite A	Clam	mg/kg	0.966	1.31	1.4
Lead				0.129	0.253	2.0
Copper		Worm		1.24	1.76	1.4
Lead				0.117	0.145	1.2
Chromium	Composite B	Clam	mg/kg	0.212	0.321	1.5
Lead				0.129	0.363	2.8

Notes:
* Value is compared to a value less than the reporting limit.
mg/kg = milligrams per kilogram; ND = non-detect or value that was reported is less than the reporting limit

Table 7-3.
Test Tissues with Statistically Elevated Bioaccumulation of PAHs and PCBs

Analyte	Composite	Test Organism	Unit (Wet Weight)	Average Concentration		Times Above Reference
				Reference Tissue	Test Tissue	
Total PAHs	Composite A	Clam	µg/kg	ND (< 10)	52.4	5.24*
Total PCBs				ND (< 0.5)	6.54	13.1*
Total PCBs		Worm		5.58	36.0	6.45
Total PAHs	Composite B	Clam	µg/kg	ND (< 10)	288	28.8*
Total PAHs		Worm		11.0	42.6	3.87
Total PCBs				5.58	26.3	4.71

Notes:
* Value is compared to a value less than the reporting limit.
µg/kg = micrograms per kilogram; ND = non-detect, or value that was reported is less than the reporting limit; PAH = polycyclic aromatic hydrocarbon; PCB = polychlorinated biphenyl

To further evaluate the magnitude of bioaccumulation observed in test sediments that are statistically elevated relative to that in the reference sediments, analytes are further compared to available FDA action levels, as discussed in the next section. FDA guidelines are defined for the protection of human health from seafood consumption. However, these guidelines can also be a good indicator of potential impairment for other species in the food web and are a recommended comparison step in the Green Book.

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7.4.2 Comparison with FDA Action Levels

Table 7-4 compares average metal, organic, and pesticide compound concentrations in clam and worm tissues to available FDA action levels. (Note that not all chemicals analyzed in tissue samples have FDA action levels). Although statistical significances were observed between test and LA-5 reference tissues, all chemicals analyzed in test tissue samples exposed to proposed dredged material are well below FDA action levels.

These results suggest that biomagnification of COCs would not exceed FDA action levels for human consumption in the Project dredge material proposed for disposal at LA-5 ODMDS.

Table 7-4.
Tissue Levels of Metals, Organics, and Pesticides Compared to Available FDA Action Levels

Analyte	Unit (wet weight)	FDA Action Level[1]	BAE Systems Pier 1N			
			Composite A Mean		Composite B Mean	
			Clams	Worms	Clams	Worms
Arsenic	mg/kg	86[2]	3.02	2.90	2.74	2.57
Cadmium	mg/kg	4.0[2]	ND (< 0.1)	ND (< 0.1)	ND (< 0.1)	ND (< 0.1)
Chromium	mg/kg	13[2]	0.265	0.180	0.321	0.133
Lead	mg/kg	1.7[2]	0.253	0.145	0.363	0.140
Nickel	mg/kg	80[2]	0.400	0.260	0.433	0.259
Mercury[4]	mg/kg	1.0[2]	0.0149	0.0231	0.0152	0.0253
Total PCB Cong.	µg/kg	2,000[3]	6.54	36.0	1.36	26.3
2,4'-DDD	µg/kg	5,000[3]	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)
4,4'-DDD	µg/kg	5,000[3]	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)
4,4'-DDE	µg/kg	5,000[3]	2.30	ND (< 1.0)	ND (< 1.0)	1.40
Total DDTs	µg/kg	5,000[3]	2.30	ND (< 1.0)	ND (< 1.0)	1.40
Chlordane	µg/kg	300[3]	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)
Dieldrin	µg/kg	300[3]	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)
Heptachlor	µg/kg	300[3]	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)
Heptachlor Epoxide	µg/kg	300[3]	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)	ND (< 1.0)

Notes:
1. U.S. Food and Drug Administration. 2011. Fish and Fisheries Products Hazards and Controls Guidance, 4rd Ed. Appendix 5—FDA & EPA Safety Levels in Regulations and Guidance. Accessed on September 19, 2014 at http://www.fda.gov/food/guidanceregulation/guidancedocumentsregulatoryinformation/seafood/ucm2018426.htm)
2. FDA action level for crustaceans and/or shellfish
3. FDA action level for all fish
4. FDA action level for methyl mercury (wet weight)

BOLD = exceeds FDA Action Level

µg/kg = micrograms per kilogram (parts per billion); FDA = U.S. Food and Drug Administration; mg/kg = milligrams per kilogram (parts per million); ND = non-detect, or value reported as less than the reporting limit; PCB = polychlorinated biphenyl

7.4.3 Bioconcentration Factor (BCF)

The third way in which bioaccumulation results are evaluated is comparison of tissue burdens with sediment loads (reported in wet weight) by calculating the bioconcentration factor (BCF). All BCF values are no more than 1.9, and the majority are much less than 1.0, indicating that the bioconcentration of these chemical analytes is very low in all of the composite area samples (Tables 7-5 and 7-6). According to EPA guidance, proposed dredged-material contaminants

with BCFs greater than 1,000 should be further evaluated for bioaccumulation potential. The BCF values of these analytes for all composites samples are considerably lower than this guidance value, which suggests the potential of the test sediments for bioaccumulation and biomagnification is minimal.

Table 7-5.
Bioconcentration Factors for Analytes Significantly Elevated in Clam Test Tissues Compared to Reference Tissue

Analyte	Units (wet weight)	Composite A			Composite B		
		Tissue Conc.	Sediment Conc.	BCF	Tissue Conc.	Sediment Conc.	BCF
Chromium	mg/kg	NA	NA	NA	0.321	13.4	0.0240
Copper	mg/kg	1.31	9.97	0.131	NA	NA	NA
Lead	mg/kg	0.253	4.46	0.0567	0.363	12.6	0.029
Total PAHs	µg/kg	52.4	182	0.288	288	2620	0.11
Total PCBs	µg/kg	6.54	18.9	0.346	NA	NA	NA

Notes:
µg/kg = micrograms per kilogram; BCF = bioconcentration factor; conc. = concentration; mg/kg = milligrams per kilogram; NA = not applicable; ND = not-detect or value was reported as less than the reporting limit

Table 7-6.
Bioconcentration Factors for Analytes Significantly Elevated in Worm Test Tissues Compared to Reference Tissue

Analyte	Units (wet weight)	Composite A			Composite B		
		Tissue Conc.	Sediment Conc.	BCF	Tissue Conc.	Sediment Conc.	BCF
Copper	mg/kg	1.76	9.97	0.177	NA	NA	NA
Lead	mg/kg	0.145	4.46	0.0325	NA	NA	NA
Total PAHs	µg/kg	NA	NA	NA	42.6	2620	0.0163
Total PCBs	µg/kg	36.0	18.9	1.90	26.3	25.6	1.03

Notes:
µg/kg = micrograms per kilogram; BCF = bioconcentration factor; conc. = concentration; mg/kg = milligrams per kilogram; NA = not applicable; ND = not-detect or value was reported as less than the reporting limit

7.4.4 Environmental Residue Effects Database Comparison

To further evaluate the potential ecological effects related to the concentrations of significantly elevated analytes observed in clam and worm tissues as a result of exposure to the Project test sediments, the ERED was queried (http://el.erdc.usace.army.mil/ered/). This database specifies the following instructions for comparing tissue data, and cautions proper use when doing so.

1. *The ERED contains residue-effects information on many environmental contaminants of potential concern.*
2. *Although the database is the result of an extensive literature search of known residue-effects data, the search was not exhaustive.*
3. *When using the database for regulatory purposes, such as dredged material evaluations, consideration must be given to the nature of the biological effect associated with a particular residue level. The database contains information on a broad range of biological effects caused by the presence of a particular contaminant in the tissue of an*

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organism, from the induction of particular enzymes or enzyme systems to whole-organism effects on survival, growth, or reproduction. A stronger inferential link exists between whole-organism toxicological effects (e.g., reduced survival) and ecological impacts on populations, communities, and ecosystems (i.e., effects the Marine Protection, Research and Sanctuaries Act and the Clean Water Act specifically state should be avoided). Cellular/subcellular responses are most appropriately used as biomarkers of exposure; they are biological indicators that the organism has been exposed to some type of stress. The causal relationship between the induction of such biomarkers and higher order effects such as whole-organism survival, growth, reproduction, or ecological impacts is unknown in most cases.

4. *Merely identifying the presence of a chemical substance in the tissues of an organism, for example, following a bioaccumulation test, is not sufficient information to conclude that the chemical will produce an adverse effect. All chemical substances have the potential to produce adverse effects (i.e., toxicity), including such diverse compounds as aspirin, zinc, and dioxin. The likelihood that a chemical substance in the tissues of an organism will produce an adverse effect is a function of the physical and chemical properties of the substance, the concentration of the chemical in the tissues of the organism, and the length of time the organism is exposed to the compound. Because environmental contaminants vary so widely in their potential to produce toxicity, contaminant-specific information must be used to reach a determination regarding the potential for a bioaccumulated substance to produce adverse effects.*

Based upon the instructions listed above, the following six criteria were established for queries of the Project tissue data using the ERED:

- The actual test species or an appropriate surrogate species was used;
- The whole body was the analysis unit;
- The chemical of concern in test tissues and the database matched exactly;
- An appropriate study endpoint (e.g., survival or growth) was selected;
- To be conservative, the lowest observed level of effect listed in the database was chosen for comparison with the analytical tissue results; and
- The toxicity or effects measurements were appropriate (e.g., no-observed-effect dose [NOED] or lowest-observed-effect dose [LOED]).

Table 7-7 summarizes the comparisons made between the appropriate ERED study results and the Project clam and worm bioaccumulation results for analytes that were significantly elevated in tissues exposed to test sediments, compared to those exposed to the LA-5 reference sediment.

In general, a comparison of the tissue chemistry results of the Project sediment characterization study with published study data in the ERED show that levels of chemicals in clam and worm tissues exposed to Project sediments would not be expected to have significant effects following unconfined aquatic disposal. However, one analyte, lead, was detected at a concentration

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slightly greater than the lowest NOED value in the ERED (2.28 mg/kg) for the eastern oyster, *Crassostrea virginica*, in clam tissues exposed to Composite A sediments. However, the ERED contains a higher NOED for reproduction (2.6 mg/kg) for this species which is less than the concentration detected in tissues exposed to Composite A sediments.

Although the concentration of lead in tissues exposed to Composite A are greater than the lowest NOED for this species, it is uncertain whether any adverse effects due to dredged material from Composite A would be observed because of the following reasons:

1. The species evaluated for this study and the ERED study are not an exact match;
2. Relatively low concentrations of analytes in test sediments;
3. Comparable tissue results to LA-5 reference sediments;
4. No exceedance when compared to FDA Action levels;
5. Low BCFs; and
6. No other toxicity in any other level of evaluation for this composite area.

Overall the above reasoning indicates that any adverse effects are considered unlikely.

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Table 7-7.
Summary of Statistically Elevated Clam and Worm Tissue Residues for Naval Amphibious Base Proposed Dredged Material

Analyte	Test Animal	Unit (Wet Weight)	Reporting Limit (RL)	Reference Mean Tissue Concentration[1]	Test Area Mean Tissue Concentration[1]	P Value	Test Area Mean: Reference Mean Ratio[2]	Comparison to Relevant Environmental Residue-Effects Database Values
Metals								
Chromium	Clam	mg/kg	0.100	0 212 ± 0.0.022	Composite B – 0.321 ± 0.0311	Composite B – <0.001	Composite B – 1.5	There were no relevant studies in the ERED for *Macoma nasuta* or the polychaete *Neanthes (*formerly *Nereis) virens*. However, there were two studies using *Neanthes arenaceodentata* for whole body behavior and reproduction with a no observed effects dose (NOED) and lowest observed effects dose (LOED) of 8.28 mg/kg chromium ([T.M. Dillon, U.S. Army Corps of Engineers Technical Report, D-84-2], [P S. Oshida and L S Word; Mar Environ Res 07:167-174]).
Copper	Clam	mg/kg	0 100	0.966 ± 0.166	Composite A – 1.31 ± 0 263	Composite A – 0 015	Composite A – 1.4	There are no relevant effects in the ERED for *Macoma nasuta.* However, the whole body lethal dose $(LD)_{45}$ for *Macoma balthica* according to one study was determined to be 12 mg/kg for survival (Absil MCP, M Berntssen, LJA Gerninga; Aquat Toxicol 34:13-29). Several polychaete worm studies are contained in the database; however, none were conducted using *Nereis virens* but there was one that used *Neanthes arenaceodentata* (the species used in the SP test for this study). This worm study contained in the ERED reports whole body mortality LDs that range from 54 to 292.8 mg/kg copper for *Neanthes arenaceodentata* (Pesch, C.E. Marine Biol. 052.237-245).
	Worm			1.24 ± 0.321	Composite A – 1 76 ± 0 108	Composite A – <0.014	Composite A – 1.4	
Lead	Clam	mg/kg	0 100	0.129 ± 0.0204	Composite A – 2.53 ± 0 0253 Composite B – 0.363 ± 0.0726	Composite A – <0.001 Composite B – <0.001	Composite A – 20 Composite B – 2.8	There were no specific studies found for the clam species used in the Project dredge characterization study (*Macoma nasuta*) for lead bioaccumulation However, a lead study using eastern oysters (*Crassostrea virginica*) resulted in a NOED for lead of 2.28, 2.28, and 2.6 mg/kg for growth, mortality, and reproduction, respectively. The concentration of lead detected in clam tissues during this study was less than the highest NOED concentration in the ERED There are no relevant effect studies in the ERED for *Neanthes (*formerly *Nereis) virens*, but a 2005 study of the oligochaete *Lumbriculus variegates* showed NOED ranging between 10 and 300 mg/kg of lead (J Aisemberg, D.E. Nahabedian, E A. Wider, and N.R.V. Guerrero, 2005, *Toxicology* 210:45-53) Comparison of the ERED results to the average (significantly greater) lead level observed in this study (0.145 mg/kg) indicated that no effects would be expected.
	Worm			0.117 ± 0.0191	Composite A – 0 145 ± 0.0146	Composite A – 0.025	Composite A – 1.24	
Polychlorinated Biphenyl (PCB) Congeners								
Total PCB Congeners	Clam	µg/kg	0.5	ND (<0.5)	Composite A – 6.5 ± 2 6	Composite A – <0 001	Composite A – 13	The ERED contains the results of a PCB study conducted using *Macoma nasuta*—a whole body NOED from a 1995 study of 1,700 µg/kg for three endpoints—mortality, growth, and behavior (B.L. Boese, M. Winsor, H Lee Li, S. Echols, J. Pelletier, and R. Randall; *Environ Tox & Chem* 14:303-310). There are no relevant effect studies in the ERED for *Neanthes (*formerly *Nereis) virens*, but a 2005 study of the oligochaete *Lumbriculus variegates* showed a whole body combined NOED ranging between 10,000 to 350,000 µg/kg of PCBs (Burton G.A. Jr, M.S. Greenberg, C.D. Rowland, C.A. Irvine, D.R. Lavioie, J.A. Brooker, L. Moore, D.F.N. Raymer, R.A. McWilliam, *Environ Pollut* 134.133-144). This is orders of magnitudes greater than the total PCBs detected in worm tissues during this study.
	Worm			5.6 ± 3.5	Composite A – 36 ± 8.6 Composite B – 26 ± 4.9	Composite A – 0.002 Composite B – 0.011	Composite A – 6.4 Composite B – 4.6	
PCB028	Clam	µg/kg	0.5	ND (<0.5)	Composite A – 0.71 ± 0.15	Composite A – 0.004	Composite A – 1.4	NA—There are no relevant effects in the ERED database for this compound.
	Worm			ND (<0.5)	Composite A – 1.6 ± 0.47 Composite B – 0.57 ± 0.0071	Composite A – <0.001 Composite B – 0 017	Composite A – 3 2 Composite B – 1.1	
PCB049	Worm	µg/kg	0.5	ND (<0.5)	Composite A – 1.1 ± 0.38 Composite B – 0 61 ± 0.11	Composite A – <0.001 Composite B – 0.027	Composite A – 2.2 Composite B – 1.2	NA—There are no relevant effects in the ERED database for this compound.
PCB052	Clam	µg/kg	0.5	ND (<0.5)	Composite A – 0.69 ± 0.17	Composite A – 0.011	Composite A – 1 4	NA—There are no relevant effects in the ERED database for this compound.

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Table 7-7.
Summary of Statistically Elevated Clam and Worm Tissue Residues for Naval Amphibious Base Proposed Dredged Material

Analyte	Test Animal	Unit (Wet Weight)	Reporting Limit (RL)	Reference Mean Tissue Concentration[1]	Test Area Mean Tissue Concentration[1]	P Value	Test Area Mean: Reference Mean Ratio[2]	Comparison to Relevant Environmental Residue-Effects Database Values
	Worm			ND (<0.5)	Composite A – 2.7 ± 0.99 Composite B – 1.6 ± 0.46	Composite A – <0.001 Composite B – <0.001	Composite A – 5.4 Composite B – 3.2	
PCB066	Clam	µg/kg	0.5	ND (<0.5)	Composite A – 0.73 ± 0 11	Composite A – 0.007	Composite A – 1.46	NA—There are no relevant effects in the ERED database for this compound.
	Worm				Composite A – 1.5 ± 0.44 Composite B – 0.85 ± 0.14	Composite A – <0.001 Composite B – <0.001	Composite A – 3.0 Composite B – 1.7	NA—There are no relevant effects in the ERED database for this compound.
PCB099	Worm	µg/kg	0.5	0.51	Composite A – 1.7 ± 0.29 Composite B – 1.2 ± 0.20	Composite A – <0.001 Composite B – <0.001	Composite A – 3.3 Composite B – 2.4	NA—There are no relevant effects in the ERED database for this compound for any applicable species
PCB101	Clam	µg/kg	0.5	ND (<0 5)	Composite A – 0.91 ± 0.23	Composite A – 0 001	Composite A – 1.8	NA—There are no relevant effects in the ERED database for this compound for any applicable species
	Worm			0 81	Composite A – 3 1 ± 0 65 Composite B – 2.5 ± 0.44	Composite A – <0 001 Composite B – <0.001	Composite A – 3.8 Composite B – 3.1	
PCB105	Worm	µg/kg	0.5	ND (<0.5)	Composite A – 1 3 ± 0 35 Composite B – 1 2 ± 0.20	Composite A – <0 001 Composite B – <0.001	Composite A – 2.6 Composite B – 2.4	NA—There are no relevant effects in the ERED database for this compound for any applicable species.
PCB110	Clam	µg/kg	0.5	ND (<0.5)	Composite A – 0.77 ± 0.15	Composite A – 0.001	Composite A – 1.54	NA—There are no relevant effects in the ERED database for this compound for any applicable species.
	Worm				Composite A – 2.0 ± 0.44 Composite B – 1.7 ± 0.40	Composite A – <0.001 Composite B – <0.001	Composite A – 4 0 Composite B – 3 4	
PCB118	Clam	µg/kg	0 5	ND (<0.5)	Composite A – 0 79 ± 0.15	Composite A – <0.001	Composite A – 1 6	NA—There are no relevant effects in the ERED database for this compound for any applicable species.
	Worm				Composite A – 1.9 ± 0.38 Composite B – 1.5 ± 0.25	Composite A – <0 001 Composite B – <0.001	Composite A – 3 8 Composite B – 3.0	
PC128	Worm	µg/kg	0 5	ND (<0.5)	Composite B – 0.58 ± 0 01	Composite B – 0.017	Composite B – 1 2	NA—There are no relevant effects in the ERED database for this compound for any applicable species.
PCB138/158	Worm	µg/kg	1 0	1.6 ± 0.39	Composite A – 3.9 ± 0.66 Composite B – 3.4 ± 0.55	Composite A – <0.001 Composite B – 0.001	Composite A – 2.4 Composite B – 2.1	An ERED study report of PCB 138 found digestive tract biochemical effects NOED of 1,580 µg/kg, conducted using *Mytilus galloprovincialis* (D.R Livingston, C. Nasci, M. Sole, L. Da Ros, S.C.M. O'Hara, L.D. Peters, V. Fossato, A.N. Wootton, P.S. Goldfarb; *Aquat Toxicol* 38:205-224) This concentration is much greater than those observed during this study

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Table 7-7.
Summary of Statistically Elevated Clam and Worm Tissue Residues for Naval Amphibious Base Proposed Dredged Material

Analyte	Test Animal	Unit (Wet Weight)	Reporting Limit (RL)	Reference Mean Tissue Concentration[1]	Test Area Mean Tissue Concentration[1]	P Value	Test Area Mean: Reference Mean Ratio[2]	Comparison to Relevant Environmental Residue-Effects Database Values
PCB149	Worm	µg/kg	0.5	0.92 ± 0.27	Composite A – 2.6 ± 0.51 Composite B – 2.1 ± 0.20	Composite A – <0.001 Composite B – 0.002	Composite A – 2.8 Composite B – 2.8	NA—There are no relevant effects in the ERED database for this compound.
PCB151	Worm	µg/kg	0.5	ND (<0.5)	Composite A – 0.8 ± 0.14	Composite A – 0.001	Composite A – 1.6	NA—There are no relevant effects in the ERED database for this compound.
PCB153	Clam	µg/kg	0.5	ND (<0.5)	Composite A – 0.84 ± 0.16	Composite A – <0.001	Composite A – 0.17	There were no relevant studies in the ERED for the bivalve *Macoma nasuta* or the polychaete *Neanthes (*formerly *Nereis) virens* However, the ERED contains a 1999 study of PCB153 with a whole body mortality LD38 of 12,631 µg/kg for the oligochaete *Lumbnculus variegates* (Fisher, S.W., S.W. Chordas III, P.F. Landrum. 1999 *Aquatic Toxicol.*45:115:126.
	Worm			1.8 ± 0.79	Composite A – 4.8 ± 0.97 Composite B – 3.6 ± 0.40	Composite A – 0.003 Composite B – 0.020	Composite A – 2.7 Composite B – 2.0	
PCB170	Worm	µg/kg	0.5	0.51	Composite A – 0.81 ± 0.11 Composite B – 0.7 ± 0 10	Composite A – <0.001 Composite B – 0.002	Composite A – 1.6 Composite B – 1.4	NA—There are no relevant effects in the ERED database for this compound.
PCB180	Worm	µg/kg	0.5	0.86 ± 0.24	Composite A – 1.8 ± 0.24 Composite B – 1 7 ± 0.32	Composite A – 0.001 Composite B – 0.003	Composite A – 2.1 Composite B – 2.0	NA—There are no relevant effects in the ERED database for this compound for any applicable species.
PCB183	Worm	µg/kg	0 5	ND (<0 5)	Composite A – 0 6 ± 0 11	Composite A – 0.022	Composite A – 1.2	NA—There are no relevant effects in the ERED database for this compound for any applicable species
PCB187	Worm	µg/kg	0.5	0.89 ± 0.23	Composite A – 1.6 ± 0.32 Composite B – 1.3 ± 0.21	Composite A – 0.003 Composite B – 0.023	Composite A – 1.8 Composite B – 1.5	NA—There are no relevant effects in the ERED database for this compound for any applicable species.
PCB206	Worm	µg/kg	0.5	ND (<0.5)	Composite A – 0.7 ± 0.080 Composite B – 0.67 ± 0.0	Composite A – <0 001 Composite B – 0 017	Composite A – 1.4 Composite B – 1.3	NA—There are no relevant effects in the ERED database for this compound for any applicable species.
Polycyclic Aromatic Hydrocarbons								
Total PAHs	Clam	µg/kg	10	ND (<10)	Composite A – 52.4 ± 41.3 Composite B – 288 ± 68.1	Composite A – 0.001 Composite B – <0.001	Composite A – 5.2 Composite B – 29	The ERED information for individual PAHs detected in tissues of clams exposed to Project sediments is summarized in the comment section for each analyte. There are no relevant studies in the ERED database for total PAHs for any applicable species.
	Worm	µg/kg	10	ND (<10)	Composite B – 42.6 ± 11.5	Composite B – <0.001	Composite B – 4.3	
Benzo (a) Anthracene	Clam	µg/kg	10	ND (<10)	Composite B – 15.6 ± 2.88	Composite B – 0.001	Composite B – 1.6	There were no relevant studies in the ERED for the clam *Macoma nasuta* or the polychaete *Neanthes (*formerly *Nereis) virens.* However, the ERED contains a 1999 study for the amphipod *Rhepoxynius abronius* that measured a whole body mortality LD ranging from 5,940 to 14,150 µg/kg. (Boese, B.L., R.J. Ozertich, J.O Lamberson, R.C Swartz, F.A. Cole, J Pelletier, J. Jones). 1999. *Arch. Environ., Contam. Toxicol.* 36:270-280).
Benzo (a) Pyrene	Clam	µg/kg	10	ND (<10)	Composite A – 13.3 ± 3.2 Composite B – 29.4 ± 4.77	Composite A – <0.001 Composite B – <0.001	Composite A – 1.3 Composite B – 2.9	There are no relevant effects in the ERED database for *Macoma nasuta* for benzo (a) pyrene. The database does identify a 2000 study that found whole body mortality LD_{50} values ranging from 23,000 to 43,000 µg/kg using the amphipod species *Ampelisca abdita* (A.A Fay; B.J Brownawell; A.A. Elskus; A.E. McElroy; *Environ. Toxicol and Chemistry* 19:1028-1035), which is well above the clam tissue level observed in this study.

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Table 7-7.
Summary of Statistically Elevated Clam and Worm Tissue Residues for Naval Amphibious Base Proposed Dredged Material

Analyte	Test Animal	Unit (Wet Weight)	Reporting Limit (RL)	Reference Mean Tissue Concentration[1]	Test Area Mean Tissue Concentration[1]	P Value	Test Area Mean: Reference Mean Ratio[2]	Comparison to Relevant Environmental Residue-Effects Database Values
Benzo (b) Fluoranthene	Clam	µg/kg	10	ND (<10)	Composite A – 14 ± 2 17 Composite B – 24.6 ± 3.91	Composite A – 0.001 Composite B – <0.001	Composite A – 1.4 Composite B – 2.5	There are no relevant effects in the ERED database for *Macoma nasuta* for benzo (b) fluoranthene. The database does contain whole body mortality lethal dose (LD) levels that range from 860 to 1,720 µg/kg from a 1999 study conducted using amphipods (*Rhepoxynius abronius*) (B.L. Boese, R J. Ozertich, J.O. Lamberson, R.C Swartz, F.A. Cole, J. Pelletier, J. Jones, *Arch Environ Contam Toxicol* 36:270-280)
Benzo (e) Pyrene	Clam	µg/kg	10	ND (<10)	Composite B –.17.8 ± 3.19	Composite B – <0 001	Composite B – 1.8	There are no relevant effects in the ERED database for the related species for benzo (e) pyrene.
Benzo (g,h,i) Perylene	Clam	µg/kg	10	ND (<10)	Composite B – 14.0 ± 2.16	Composite B – 0 010	Composite B – 1.4	There are no relevant effects in the ERED database for the related species for benzo (g,h,i) perylene
Benzo (k) Fluoranthene	Clam	µg/kg	10	ND (<10)	Composite A – 12 6 ± 2.07 Composite B – 20.8 ± 3.19	Composite A – 0 010 Composite B – <0.001	Composite A – 1.3 Composite B – 2.1	There are no relevant effects in the ERED database for the related species for benzo (k) fluoranthene.
Chrysene	Clam	µg/kg	10	ND (<10)	Composite B – 15 8 ± 4.32	Composite B – 0.004	Composite B – 1.6	The database contains a 1999 chrysene study using the amphipod species *Rhepoxynius abronius* that found whole body mortality LD levels that range from 1,280 µg/kg to 3,150 µg/kg This effects level is well above the15 8 µg/kg average chrysene level observed in clam tissues during this study.
Fluoranthene	Clam	µg/kg	10	ND (<10)	Composite B – 50 2 ± 14.6	Composite B – <0.001	Composite B – 5.0	There are no relevant effects in the ERED database for *Macoma nasuta* or *Neanthes (*formerly *Nereis) virens* for fluoranthene The database does contain whole body mortality LD levels that range from 20,750 to 142,790 µg/kg from a 1999 study conducted using amphipods (*Rhepoxynius abronius*) (B.L. Boese, R.J. Ozertich, J O Lamberson, R.C. Swartz, F.A. Cole, J. Pelletier, J. Jones, *Arch Environ Contam Toxicol* 36: 270-280) These effect levels are magnitudes higher than the tissue levels of fluoranthene in the BAE study (50.2 µg/kg in clam tissue and 16.6 µg/kg in worm tissue).
	Worm				Composite B – 16 6 ± 5.32	Composite B – 0.006	Composite B – 1.7	
Indeno (1,2,3-c,d) Pyrene	Clam	µg/kg	10	ND (<10)	Composite B – 12.0 ± 1.0	Composite B – 0.034	Composite B – 1.2	NA—There are no relevant effects in the ERED database for *Macoma nasuta* or related species for indeno (1,2,3-c,d) pyrene
Pyrene	Clam	µg/kg	10	ND (<10)	Composite B – 89 0 ± 21.3	Composite B – <0.001	Composite B – 8.9	There are no effects in the database for survival for the species used in the bioaccumulation exposures; however, a PAH study for pyrene using *Mytilus galloprovincialis* showed a cellular LOED ranging between 3,399 to 3,407 µg/kg (Perez-Cadahia B, B Laffon, E Pasaro, J Mendez, *Comp Biochem Physiol* 138C.453-460). This level is much higher than the tissue levels of pyrene observed in the BAE study (an average of 89 0 µg/kg in clam tissues). There are no relevant effect studies in the ERED for *Neanthes (*formerly *Nereis) virens,* but a 1994 study of the oligochaete *Lumbriculus variegates* showed a mortality LOED of 465,000 µg/kg of pyrene (Kukkonen, J. and P.F. Landrum, *Environ Tox & Chem* 13(9):1457-1468) This is orders of magnitudes greater than concentration of pyrene detected in worm tissues during this study (26.0 µg/kg in worm tissues).
	Worm				Composite B – 26.0 ± 6.28	Composite B – <0.001	Composite B – 2.6	

Notes:
1 All concentrations are wet weight values.
2 The reporting limit (RL) is used as the concentrations for the ND values.
µg/kg = micrograms per kilogram; LD = lethal dose; LOED = lowest-observed-effects dose; mg/kg = milligrams per kilogram, NA = not applicable or no value; ND = non-detect; NOED = no-observed-effects dose; PCB = polychlorinated biphenyl

8.0 CONCLUSIONS

This report is the sediment characterization study to support future dredging at BAE Systems along their Pier 1N berthing area. The proposed Project will replace one wet berth with a dry dock to facilitate anticipated repairs associated with the future homeporting of Navy vessels into San Diego Bay. The purpose of this sediment characterization study is to gain approval for potential unconfined aquatic disposal at the LA-5 ODMDS or other beneficial reuse option. Dredged material sampling and testing for this purpose was performed according to the Project-specific SAP, approved by the USACE and USEPA May 19, 2014 (AMEC 2014).

Sediment evaluation included two types of collection and testing for proposed Project dredged materials as follows:

1. Unconsolidated sediment samples collected using a vibracore and subjected to a full Green Book Tier III analysis; and
2. Native, consolidated sediments collected during a geotechnical evaluation (performed by TerraCosta) and analyzed according to a modified Green Book Tier II testing scheme outlined in the SAP and approved by the agencies.

The results of the BAE Systems Pier 1N dredged material characterization study presented in this report indicate that the proposed Project dredged material complies with the ocean dumping suitability requirements outlined in Title 40 CFR Parts 220–238. These conclusions are supported by the following lines evidence.

- Grain size results indicate that the majority of the sediments are fine grained (≤80 percent sand) with the exception of the vibracore Composite A sample (81.3 percent sand); sample BAE-P1-A-C3 (80.4 percent sand); the transition layer sediments for the four Subcomposites (83.2 to 93.3 percent sand), and sample B-5-3 from the geotechnical evaluation (82.7 percent sand).
- Comparison of the sediment chemistry results for sediments collected for the proposed Project to the ERL/ERM guideline values and the reference sediment results indicates, in general, that the majority of the test sediments collected within the dredge footprints contain low concentrations of chemical contaminants.
  - For Composite A of the unconsolidated material, total PCB congeners are 1.1 times the ERL guideline value. No other analytes were detected above ERM or ERL guideline values and total PCB congeners were not above the ERL guideline value in the Composite A duplicate sample.
  - For Composite B of the unconsolidated material, none of the analytes are above ERM guidelines, but several are above ERL guidelines. These include arsenic (1.8 times), mercury (2.8 times), acenaphthylene (1.2 times), benzo (a) pyrene (1.2 times), and total PCB congeners (1.7 times).
  - None of the transition layer sediments or native sediments contains analytes above ERM or ERL guideline values and the majority of the analytes are non-detect.

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- Native sediments from Composite Areas A, B, and C are relatively free of chemical contaminants and those detected may be naturally occurring and are well below below effects levels (ERL and ERM guidelines).

- Results of the SPP toxicity tests yielded EC_{50} values greater than 100 percent and no significant differences between test and reference sediments except for Composite B during the mussel embryo test (EC_{50} = 73.3 percent). This result was attributed to ammonia, a potential confounding factor.
  - These results indicate that Composite A elutriate samples meet the water column LPC for ocean disposal.
  - It is also likely that if Composite B sediments are disposed at LA-5 the sediments would not cause any adverse effect after the initial 4-hour mixing period.
    - If Composite B sediments are considered for a beneficial reuse alternative, additional Automated Dredging and Disposal Alternatives Modeling System (ADDAMS) short term fate (STFATE) modeling (Schroeder and Palermo, 1990) may be necessary to determine if there will be any adverse effects due to the disposal of sediments depending on the placement location.
- SP exposures were performed using the amphipod *E. estuarius*, and the polychaete worm *Neanthes arenaceodentata* showed a statistically significant difference for amphipod survival in Composite B sediments compared to the LA-5 reference.
  - However, the percent survival in Composite B sediments was not more than 20 percent less than survival in the reference, therefore the sediment meets the LPC for benthic toxicity as described in the Green Book.
- No clam or worm tissue chemical levels exceeded FDA action levels for substances poisonous and/or deleterious to fish and shellfish.
- After 28 days of exposure, several metals and organic compounds accumulated in tissues of test organisms at concentrations that were statistically greater than those in reference tissues. However, for the chemicals that were statistically greater in test tissues as compared to reference tissues, calculated BCFs were less than 1.9 for all Project samples, and were orders of magnitude less than the level that would require further studies of potential bioaccumulation exposure. These results suggest that the bioaccumulation and biomagnification potential of the proposed Project dredged material is minimal.
- Although lead concentrations detected in clam tissues exposed to Composite A sediments were found to be greater than the lowest NOED value published in the ERED database, it is uncertain if any adverse effects due to dredged material from Composite A would be observed because the species evaluated for this study and the ERED study are not an exact match. Furthermore, due to relatively low concentrations of analytes in Composite A sediments, and no other observed toxicity, any adverse effects are considered unlikely.
  - Overall, comparison of the tissue chemistry results of this sediment characterization study with published study data contained in the ERED shows that the levels of chemicals in clam and worm tissues exposed to Project sediments are well below any expected effects levels.

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In summary, a review of the tiered data indicates that the Project dredge sediments meet the water column and benthic LPC for unconfined aquatic disposal and that long term effects to the aquatic environment are unlikely. However, further consultation with the USACE and USEPA is needed to determine the suitability for unconfined aquatic disposal of the Project sediments.

As mentioned, portions of material in the dredge footprint may be suitable for beneficial reuse. BAE Systems is currently working with the Port and regulatory agencies to identify potential beneficial reuse sites in San Diego Bay. Once specific sites have been identified, a separate beneficial reuse report will be prepared to specifically evaluate the feasibility (i.e. grain size compatibility and sediment chemistry) of placing material from the dry dock footprint at any or all of the proposed mitigation sites.

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9.0 SUITABILITY FOR UNCONFINED AQUATIC DISPOSAL

As mentioned in Section 1.0, a revised draft of this report was submitted to the agencies on November 6, 2014. The agencies provided comments on the draft on November 17, 2014. This revision includes clarification and information requested by the agencies for the SUAD determination. Electronic mail correspondence between BAE Systems and the agencies is included as Appendix F of this report.

9.1 Response to USEPA Comments

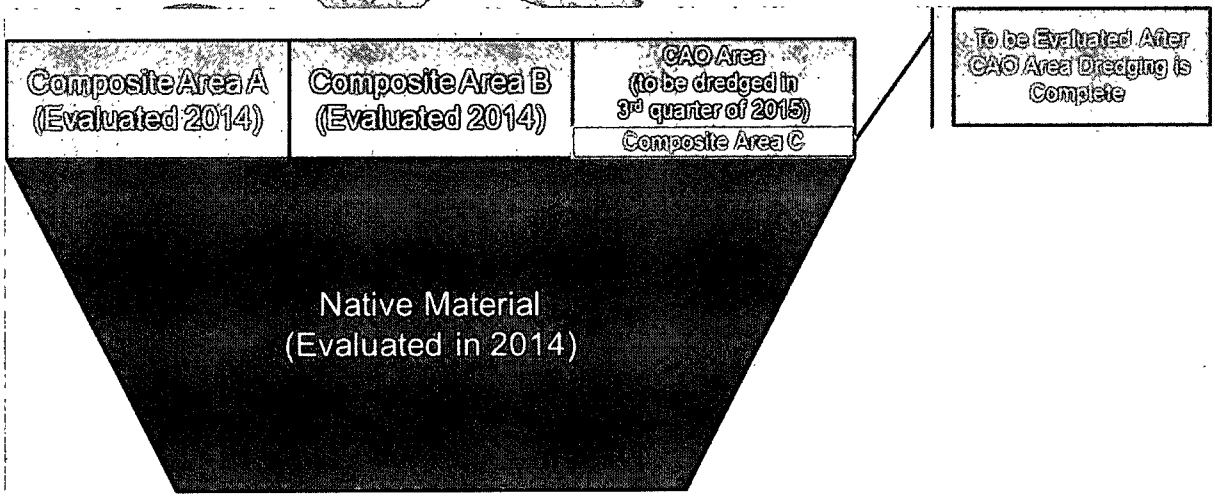
With regard to comments from the USEPA; dated November 14, 2014; BAE Systems agrees with the summary of understanding with the following exception.

Comment: Understanding item 6

- *Two composite areas (A and B) were sampled and analyzed; a third composite area (C) will be sampled after completion of remediation dredging of the contaminated upper layer.*

Response: This report also evaluates the consolidated, native layer of Composite Area C (see clarifications provided in this draft report in previous [highlighted] report sections and Figure 9-1). Figure 9-1 displays a clarification of the sediments evaluated and in need of SUAD approval. Only the unconsolidated area of Composite Area C, if any should be left following remediation dredging for the CAO area, and this area will be evaluated in a supplemental report.

Figure 9-1. Pier 1N Sediment Characterization Clarification Phase I Evaluation



BAE Systems agrees with USEPA comments 1 through 5 and 7 regarding the sediment testing results; no further response is provided.

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9.2 Response to USACE Comments

With regard to USACE comments dated November 14, 2014, which expand upon the USEPA understanding and comments, BAE Systems submits the following response for consideration.

Comment: Item 1 (summarized):

- *...please include (other beneficial reuse options available [South Bay Sites])...in the SAPr...and the cubic yardages, if known.*

Response: The South Bay beneficial reuse site options available and their cubic yardages are provided in Table 9-1.

Table 9-1.
South Bay Beneficial Reuse Options

Location	Dredged Material Volume Needed (Cubic Yards)
Northern Alternative Mitigation	130,000
Southern Alternative Mitigation	65,000

A description of the beneficial reuse options, a summary of the need for material in these locations, maps, feasibility, and general plans for placement have been provided by Merkel & Associates and is included in Appendix F.

Comment: Item 3 *Upon review of the SAPr it would seem that some of the Area A areas below the unconsolidated muddy layer are sandy native formation sediments that could be available for beneficial reuse so maybe the SAPr could describe these areas and the potential yardages that could be available for reuse along with the alternatives available for beneficial reuse per Item 2. and 7.below.*

Response:
A portion of the sediments in the consolidated native layer of Composite Area A have been identified for potential beneficial reuse. Approximately 54,464 cy of material have been identified in this area as containing the appropriate proportion of sand for nearshore beneficial reuse. In addition, the unconsolidated portions of Composite Areas A and B are being evaluated for reuse. The unconsolidated portions of Composite Areas A and B represent approximately 65,961 cy of dredged material. As such, the total dredged material volume proposed for beneficial reuse is approximately 65,000 to 130,000 cy.

Figure 9-2 provides a generalized schematic for the breakdown of Pier 1N dredged material considered for beneficial reuse.

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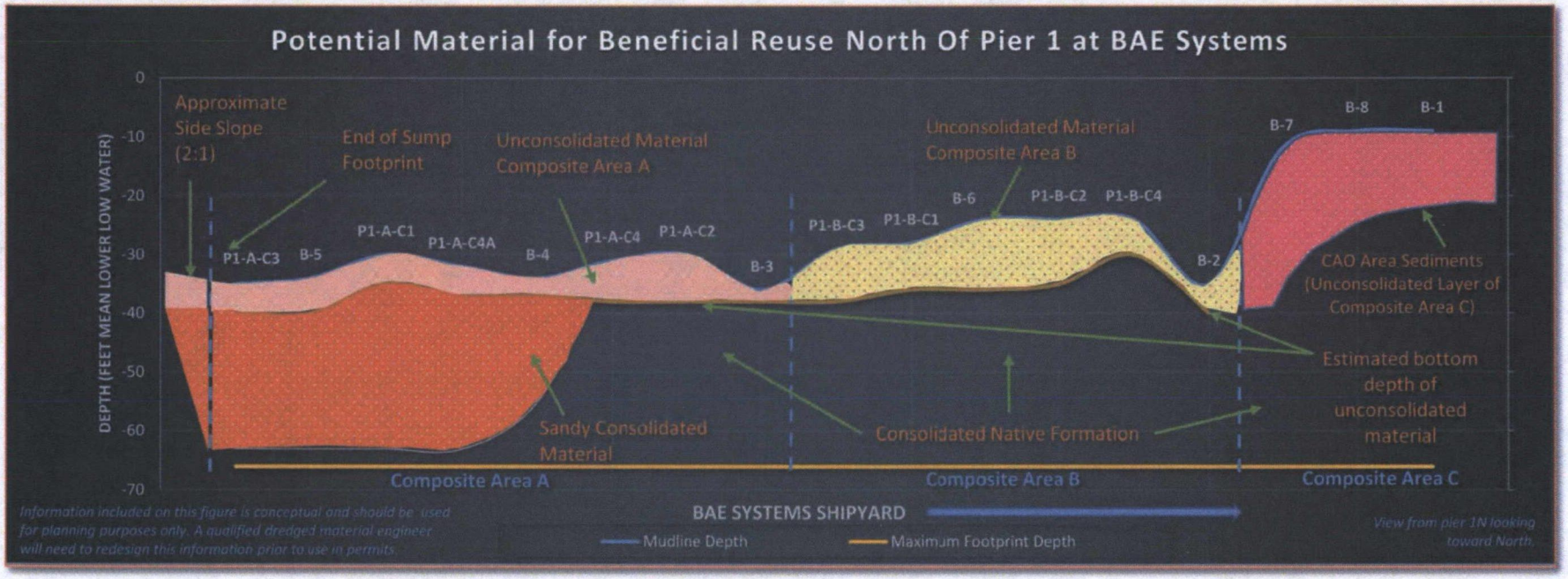

Potential Material for Beneficial Reuse North of Pier 1 at BAE Systems

FIGURE 9-2

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Table 9-2 provides general estimates of dredged material volumes available.[6] Supplemental grain size analysis of native sediments within the potential beneficial reuse area was also performed. The supplemental results are included in Appendix F and Table 9-3.

Table 9-2.
Estimated Dredged Material Volume Available for Beneficial Reuse

Area	Estimated Volume[1] (cubic yards)
Unconsolidated Area A - All	32,257
Unconsolidated Area B - All	33,704
Consolidated Native Formation - Sand Only	54,464
Consolidated Native Formation – Cemented Fines	274,575
Total	395,000

[1] - Estimated volumes are limited to the unconsolidated areas of Composite Areas A and B, and the consolidated material within the entire dredge footprint (including Composite Area C). All volumes are conceptual and are general estimates to be used for planning purposes only. Final volumes will need to be verified by a dredged material contractor or engineer prior to permitting and contracting. Volumes have been calculated to the estimated limits of the Project footprint. The estimated limits were determined by overlaying a georeferenced drawing of the Project area on an aerial map in ArcGIS.

Table 9-3.
Supplemental Grain Size Analysis

Sample Identifier	Gravel (%)	Coarse Sand (%)	Medium Sand (%)	Fine Sand (%)	% Sand	% Fines	USCS Classification
B-4-1	6.60	6.20	14.4	68.6	89.2	4.20	Poorly Graded Sand
B-4-2	1.30	0.50	3.50	89.7	93.7	5.00	Poorly Graded Sand
B-4-3	0.00	0.50	8.60	85.9	95.0	5.00	Poorly Graded Sand
B-4-4	0.30	0.60	7.80	85.2	93.6	6.10	Poorly Graded Sand/Silt
B-5-2	0.00	0.20	1.20	95.3	96.7	3.30	Poorly Graded Sand
B-5-4	3.00	2.50	30.2	55.6	88.3	8.70	Poorly Graded Sand/Silt
B-5-5	0.00	0.00	1.60	87.6	89.2	10.8	Poorly Graded Sand/Silt
B-5-7	0.40	0.90	21.4	69.0	91.3	8.30	Poorly Graded Sand/Silt

Notes:
USCS = Unified Soil Classification System; % = percent

BAE Systems agrees with USACE comments 2 and 4.

In summary, this supplemental evaluation satisfies all requests and addresses all comments from the USACE and USEPA provided on November 14, 2014.

[6] Note: These volumes are intended for planning purposes only. They are not intended for use in final permitting or design plans. New dredged material volumes will need to be developed by a qualified dredged material contractor or engineer.

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APPENDIX E

WATER QUALITY AND HYDROLOGY TECHNICAL REPORT

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PIER 1 NORTH DRY DOCK, ASSOCIATED REAL ESTATE AGREEMENTS, AND REMOVAL OF COOLING TUNNELS PROJECT
WATER QUALITY AND HYDROLOGY TECHNICAL REPORT
PIER 1 NORTH DRY DOCK PROJECT
BAE SYSTEMS SAN DIEGO SHIP REPAIR
SAN DIEGO BAY, SAN DIEGO, CALIFORNIA

Submitted to:

Unified Port
of San Diego

San Diego Unified Port District
3165 Pacific Highway
San Diego, CA 92101

Submitted by:

AMEC Environment & Infrastructure, Inc.
9210 Sky Park Court, Suite 200
San Diego, California 92123

December 2014

AMEC Project No. 1415100700

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ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Environment & Infrastructure, Inc.
Article 10	Storm Water Management and Discharge Control Ordinance
ASBS	Area of Special Biological Significance
BAE Systems	BAE Systems San Diego Ship Repair
BFE	base flood elevation
bgs	below ground surface
BMP	best management practice
Caltrans	California Department of Transportation
CAP	Corrective Action Plan
CAO	Cleanup and Abatement Order
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CPT	cone penetration testing
CWA	Clean Water Act
cy	cubic yards
DEH	Department of Environmental Health
District	San Diego Unified Port District
DMP	Dredging Management Plan
EIR	Environmental Impact Report
ERL	effects range-low
ERM	effects range-median
ESA	Environmental Site Assessment
Et. Seq.	Et sequential; *"...and the following"*
FEMA	Federal Emergency Management Agency
Findings	Findings of Fact
FIRM	Flood Insurance Rate Map
HA	Hydrologic Area
HU	Hydrologic Unit
JRMP	Jurisdictional Runoff Management Plan
JURMP	Jurisdictional Urban Runoff Management Plan
LSA	LSA Associates, Inc.

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ACRONYMS AND ABBREVIATIONS (Cont.)

MEP	maximum extent practicable
MLLW	mean lower low water
MMRP	Mitigation Monitoring and Reporting Program
MPRSA	Marine, Protection, Research, and Sanctuaries Act
MS4	Municipal Separate Storm Sewer Systems
NFIP	National Flood Insurance Program
NPDES	National Pollutant Discharge Elimination System
ODMDS	Ocean Dredged Material Disposal Site
OPA	Oil Pollution Act
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
PEIR	Program Environmental Impact Report
Pier 1N	Pier 1 North (northern side of Pier 1)
Porter-Cologne Act	Porter-Cologne Water Quality Act
POSD	Pride of San Diego (dry dock)
POTW	Publicly Owned Treatment Works
Proposed Project	Pier 1 North Dry Dock Project
RAP	Remedial Action Plan
RP	responsible party
SA	Hydrologic Subarea
SAM	Site Assessment and Mitigation
SDG&E	San Diego Gas and Electric
SDSR	San Diego Ship Repair
SDRWQCB	San Diego Regional Water Quality Control Board
SOPs	Standard Operating Procedures
SUAD	suitable for unconfined aquatic disposal
SUSMP	Standard Urban Storm Water Mitigation Plan
SWDS	Storm water diversion system
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TerraCosta	TerraCosta Consulting Group, Inc.

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ACRONYMS AND ABBREVIATIONS (Cont.)

TMDL	total maximum daily load
TPH	total petroleum hydrocarbons
TUOP	Tidelands Use and Occupancy Permit
U.S.	United States
USC	United States Code
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USMP	Urban Storm Water Mitigation Plan
UVOST	Ultraviolet Optical Screening Tool
VOC	volatile organic compounds
WDR	Waste Discharge Requirements
WMP	Watershed Management Plan
WQC	Water Quality Certification
WQIP	Water Quality Improvement Plan

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1.0 INTRODUCTION

The Proposed Project is referred to as the *BAE Systems San Diego Ship Repair Pier 1 North Dry Dock Project*. The project site is located on and adjacent to San Diego Bay at the BAE Systems San Diego Ship Repair (BAE Systems) facility located at 2205 East Belt Street in San Diego, California (Figure 1-1). As described in detail in the Project Description (under separate cover), there are three separate components that comprise the Proposed Project:

- Performing pier and landside upgrades, dredging, and installation of a new dry dock on the northern side of Pier 1 (Pier 1N);
- Entering into a future, long-term real estate agreement with the San Diego Unified Port District (District) on the neighboring 2.0-acre land parcel and 4.0-acre water area that is currently leased by BAE Systems under a Tidelands Use and Occupancy Permit (TUOP); and
- Performing a program-level analysis for the removal of the intake/discharge tunnels that currently exist within the TUOP parcel as well as any associated soil or groundwater remediation efforts.

This Technical Report focuses on water quality and hydrology issues (e.g., impacts from construction or operations that may affect water quality or hydrology in the vicinity of the Proposed Project site) during the installation and operation of the proposed dry dock at the BAE Systems San Diego Ship Repair facility and the programmatic analysis for the removal of the intake/discharge tunnels. There are no water quality impacts associated with the future, long-term real estate agreement.

The major tasks that comprise the dry dock installation component of the Proposed Project include:

- Dredging of approximately 395,000 cubic yards (cy) of San Diego Bay bottom on the northern side of Pier 1 to accommodate the operation of the new dry dock;
- Aquatic (and potentially upland) disposal of the dredged materials, including possible pumping of the dredged material to a south bay mitigation site;
- Installation of an underwater sheet pile wall and cantilevered king pile on the northern side of the existing Pier 1;
- Installation of new ramp wharf structures that will be used to access the dry dock;
- Installation of one new, one retrofitted, and one expansion of mooring dolphins to secure the dry dock;
- Final dry dock assembly work and deployment of the new dry dock on the northern side of Pier 1 (most of the dry dock assembly will be done offsite);
- Installation of new electrical and mechanical utilities to service the dry dock; and
- Dry dock operation (e.g., loading and unloading of vessels; vessel repair and maintenance operations; dry dock maintenance).

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The major tasks associated with the removal (and associated soil and/or groundwater remediation) of the intake/discharge tunnels and associated structures that currently exist within the TUOP parcel include:

- Excavation of soil
- Dewatering
- Installation of shoring to protect excavation
- Demolition and removal of tunnels (concrete) and remaining offshore separation structure
- Backfill with clean structural fill and installation of a rock covered slope from the top of the submerged sheet-pile wall to the level landward parcel
- Potential soil and groundwater characterization and potential remediation (if required)
- Disposal of soils (if required)
- Replacement of numerous structures, equipment, and operating systems currently located over the tunnels
- Installation of shoreline revetment to protect backfill in tunnels.

Specific water quality and hydrology impacts associated with the dry dock installation component of the Proposed Project that might occur as a result of the following construction and operation activities are:

- Dredging and dredged material disposal;
- Construction activities during sheet pile and king pile installation;
- Construction activities during dry dock access ramp installation;
- Construction activities during mooring dolphin demolition and installation;
- Trenching and other construction activities related to installation of the electrical and mechanical utilities needed to service the new dry dock;
- Deployment of the new dry dock, including any onsite assembly and test activities; and
- Operations of the new dry dock, including ship loading and unloading, ship repair and maintenance activities, and long-term dry dock maintenance needs.

Specific water quality and hydrology impacts associated with the removal (and associated soil and/or groundwater remediation) of the intake/discharge tunnels and associated structures that currently exist within the TUOP parcel are:

- Release of potentially contaminated soil or water during construction or removal materials;
- Turbidity caused by runoff on exposed soil surfaces or other accidental release;
- Accidental fuel or oil spills by equipment during construction; and
- Potential impacts to groundwater.

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SOURCE: LSA, 2014, (Original file from Bing Maps, 2012, and BAE Systems, 6/2014)

Regional and Project Location
Pier 1N Dry Dock Project
Water Quality and Hydrology Technical Report
BAE Systems San Diego Ship Repair

FIGURE 1-1

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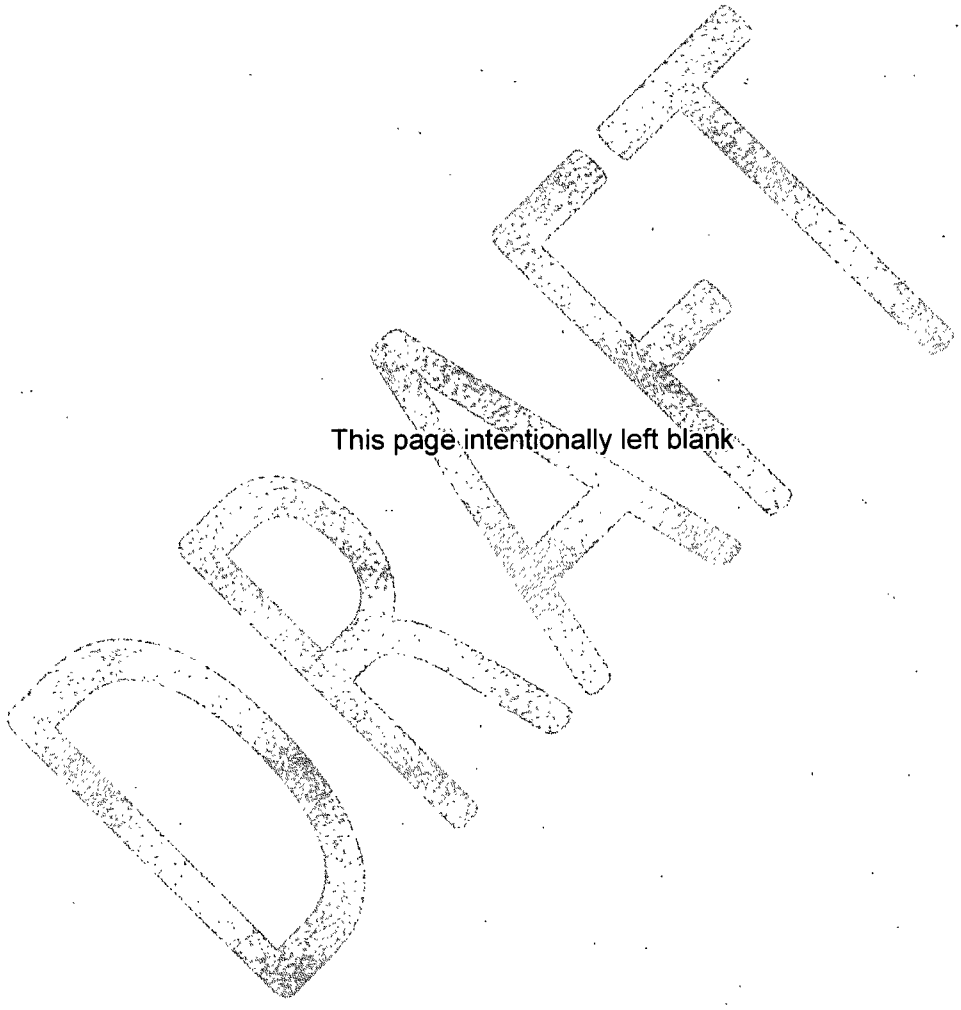
Graphics/Aquatics/BAE/ProjectLocation.ai



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Proposed Project elements considered in this technical report that may potentially impact water quality and hydrology include both construction elements and operational elements:

Construction Elements

- Dredging and dredged material disposal
  - Potential pumping of dredged sediment (in slurry form) to a south bay mitigation site
- Dry dock associated in-water construction activities
  - Installation of an underwater sheet pile wall and cantilevered king piles
  - Demolition and installation of mooring dolphins and access ramps
  - Assembly and deployment of the new dry dock
- Dry dock associated land-side construction activities
  - Installation of electrical and mechanical utilities needed to service the new dry dock
  - Ramp wharf construction
  - Potential hazardous material spills
- Demolition/removal and backfill of the intake/discharge tunnels and associated structures on the existing TUOP parcel where they meet the mean high tide line and remain open
- Restoration and erosion protection of the site shoreline.

Operational Elements

- Dry dock operations
  - Ship loading and unloading (especially the intake and discharge of ballast waters)
  - Ship repair and maintenance activities
  - Long-term maintenance needs (i.e., cleaning/wash-down, repairs, and painting)
- Operations associated with the TUOP parcel after removal/demolition

The elements are consistent with the separate Project Description provided by LSA Associates, Inc. (LSA) under separate cover.

Ongoing Activities Within the Project Footprint

A portion of the Proposed Project area (the nearshore area on the northern side of Pier 1) is currently managed under the San Diego Shipyard Sediment Remediation Project (Figure 1-2). The San Diego Shipyard Sediment Remediation Project is the approved remedial action in response to the Tentative Cleanup and Abatement Order (CAO) No. R9-2012-0024 of the San Diego Regional Water Quality Control Board (SDRWQCB, 2010a and 2010b).

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The San Diego Shipyard Sediment Remediation Project consists of a planned cleanup for marine sediments that contain elevated levels of contaminants of concern above CAO cleanup levels. On July 16, 2013, the District's Board of Port Commissioners (Board) considered the Final Program Environmental Impact Report (PEIR) and post-Final PEIR certification documents (e.g., Waste Discharge Requirements [WDR] and Clean Water Act [CWA] Section 401 Water Quality Certification [WQC]) prepared by the SDRWQCB; adopted the Findings of Fact (Findings) and Statement of Overriding Considerations (SOC); adopted the Mitigation Monitoring and Reporting Program (MMRP); and authorized District staff to file the Notice of Determination (NOD) for the San Diego Shipyard Sediment Remediation Project.

All current and future remedial activities associated with the San Diego Shipyard Sediment Remediation Project are planned to be completed prior to commencement of the Proposed Project; therefore, dry dock dredging activities will not overlap with the remediation activities. Consequently, this Technical Report does not address the potential water quality and hydrology impacts associated with the San Diego Shipyard Sediment Remediation Project dredging, as they have been thoroughly evaluated in a separate certified California Environmental Quality Act (CEQA) document (SDRWQCB, 2011) and associated Water Quality Technical Report (Geosyntec, 2011).

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Shipyard Sediment Cleanup Area
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

1 inch = 150 feet
0 75 150 Feet

FIGURE 1-2

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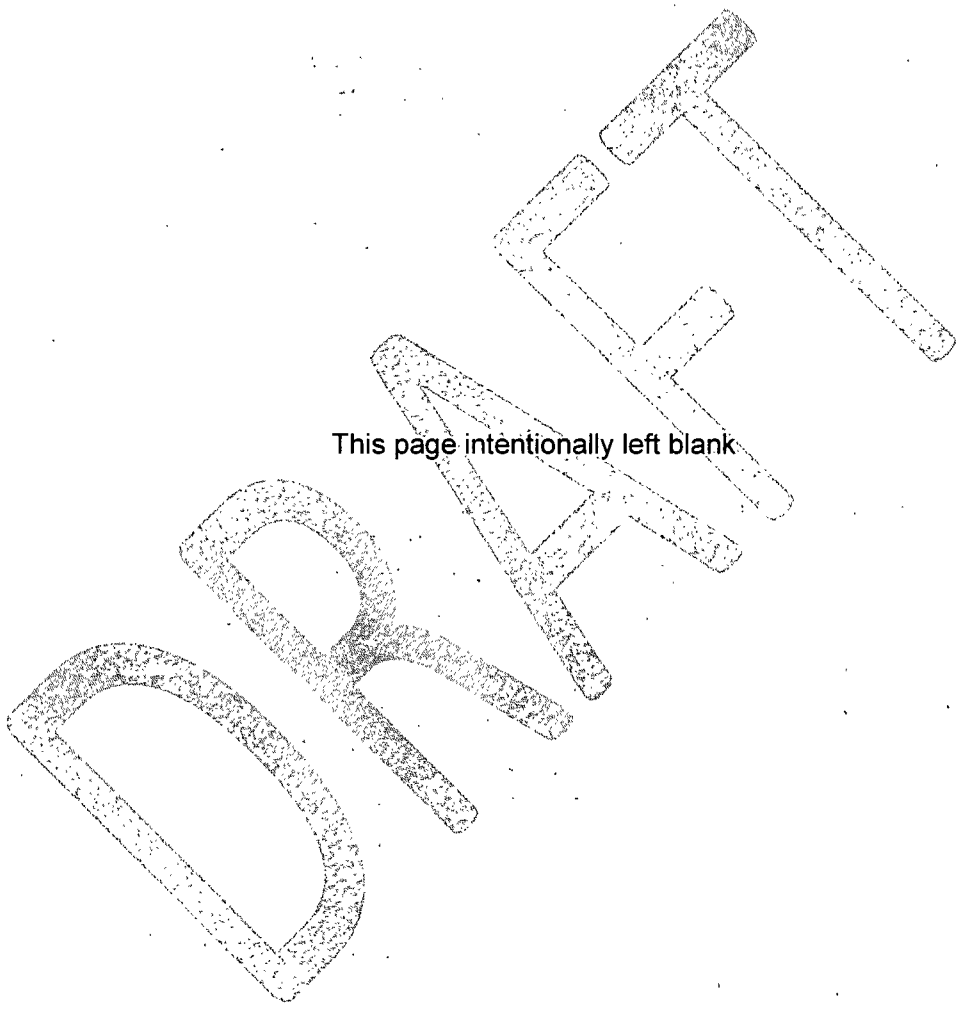

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2.0 PROJECT DESCRIPTION

The Proposed Project includes three main components: (1) installing a new dry dock on the northern side of Pier 1; (2) entering into a future, long-term real estate agreement with the District on the neighboring 2-acre land parcel and 4-acre water area that is currently leased by BAE Systems under a TUOP[1]; and (3) conducting a program-level analysis of potential remediation efforts associated with the removal of the intake/discharge tunnels that exist within the TUOP parcel. Each component is described in detail below as well as in the Project Description under separate cover.

The tasks associated with each component include the following:

Component 1: Installing a New Dry Dock on the Northern Side of Pier 1

Tasks for this project component are depicted on Figure 2-1 and include:

- Dredging activities to accommodate the new dry dock down to -65 feet mean lower low water (MLLW) and removal of approximately 395,000 cubic yards (cy) of dredged material.
- Installation of a 700-foot-long sheet pile protection wall (i.e., underwater retaining wall) along the existing Pier 1 northern side and cantilevered king piles.
- Installation of over-water structure(s) (three independent structures over an area of approximately 18,692 square feet), two 26-foot by 33-foot mooring dolphins (one new and one retrofit) 344 feet and 890 feet offshore to the west of the U.S. Bulkhead Line and one expansion of an existing mooring dolphin, in addition to the installation of electrical and mechanical utilities to support the dry dock.
- Installation (including some final assembly) of a new floating dry dock approximately 205 feet in width and 851 feet in length (174,455 square feet total) plus aprons (approximately 16,165 square feet total) attached to the dry dock on each end.

Figure 2-2 depicts before (existing) and after (proposed) conditions for the dry dock component of the Proposed Project. The dry dock component will be executed in multiple phases. These phases are discussed in greater detail in Section 1.4.2 of the Project Description under separate cover.

Component 2: Entering into Future, Long-term Real Estate Agreement with the District on Land Currently Leased by BAE Systems

This project component includes:

- Extension of the existing lease for 9.8 acres of land and 16.6 acres of water and entering into a new lease for the 2.0-acre landside and 4.0-acre waterside parcel currently leased by the District to BAE Systems through a TUOP.

[1] At the time of preparation of this Water Quality Technical Report, the Tidelands Use and Occupancy Permit (TUOP) with SDG&E, dated November 1, 2009 (Document No. 55689) expired on October 31, 2014. This parcel is currently leased to BAE Systems by the District via a 5-year TUOP.

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Component 3: Removing Intake/Discharge Tunnels on the TUOP Parcel.

A portion of the water quality impacts related to the potential remediation efforts associated with the removal of the intake/discharge tunnels are discussed in a draft Phase I Environmental Site Assessment (ESA) report (Ninyo & Moore, 2014). The location of the intake/discharge tunnels is depicted on Figure 2-3.

Tasks for this project component include:

- Excavation of soil
- Dewatering
- Installation of shoring to protect excavation
- Demolition and removal of tunnels (concrete) and remaining offshore separation structures
- Backfill with clean structural fill and installation of a rock covered slope from the top of the submerged sheet-pile wall to the level landward parcel
- Potential soil and groundwater characterization and potential remediation (if required)
- Disposal of soils (if required)
- Replacement of numerous structures, equipment, and operating systems currently located over the tunnels
- Installation of shoreline revetment to protect backfill in tunnels.

This Technical Report evaluates water quality and hydrology associated with installation of the new dry dock (Component 1) and the program-level assessment for the removal of the intake/discharge tunnels and any required soil and/or groundwater remediation at the point where it meets the mean high tide line and remains open (Component 3).

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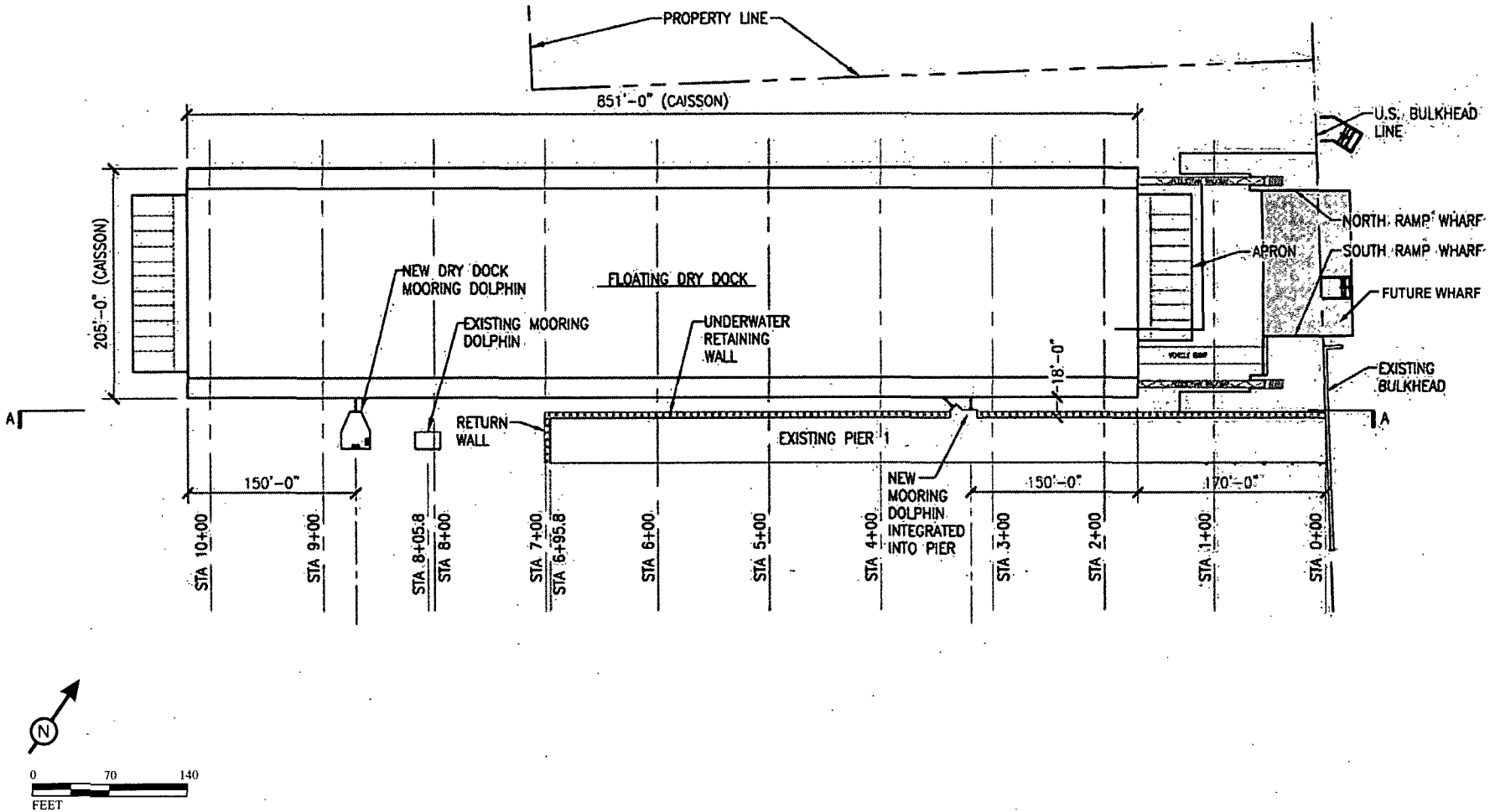

SOURCE: LSA, 2014 (Original file from BAE Systems, 2014)

Conceptual Design - Proposed Drydock Facility
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
2-1

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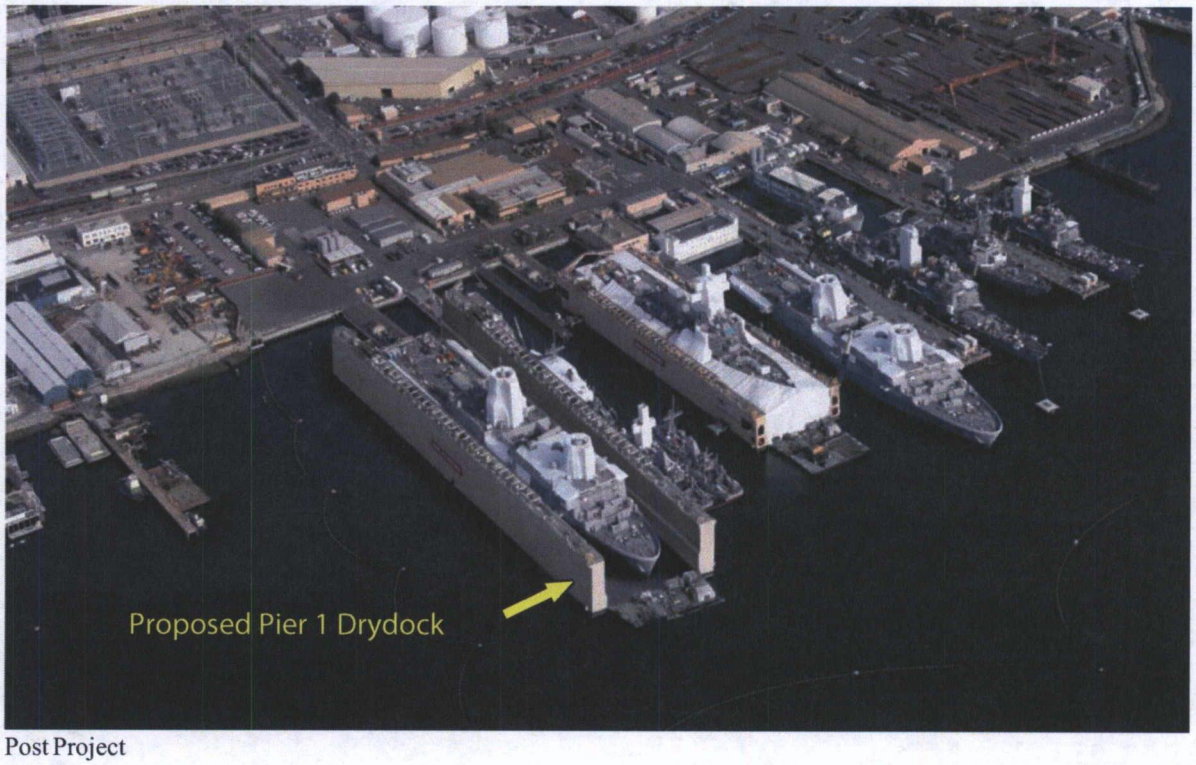
Existing



Post Project

SOURCE: LSA, 2014

Drydock Component (Existing and Proposed)
Pier 1N Dry Dock Project
Water Quality and Hydrology Technical Report
BAE Systems San Diego Ship Repair

FIGURE
2-2

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Graphics/Aquatics/BAE/Drydock Component v2.ai

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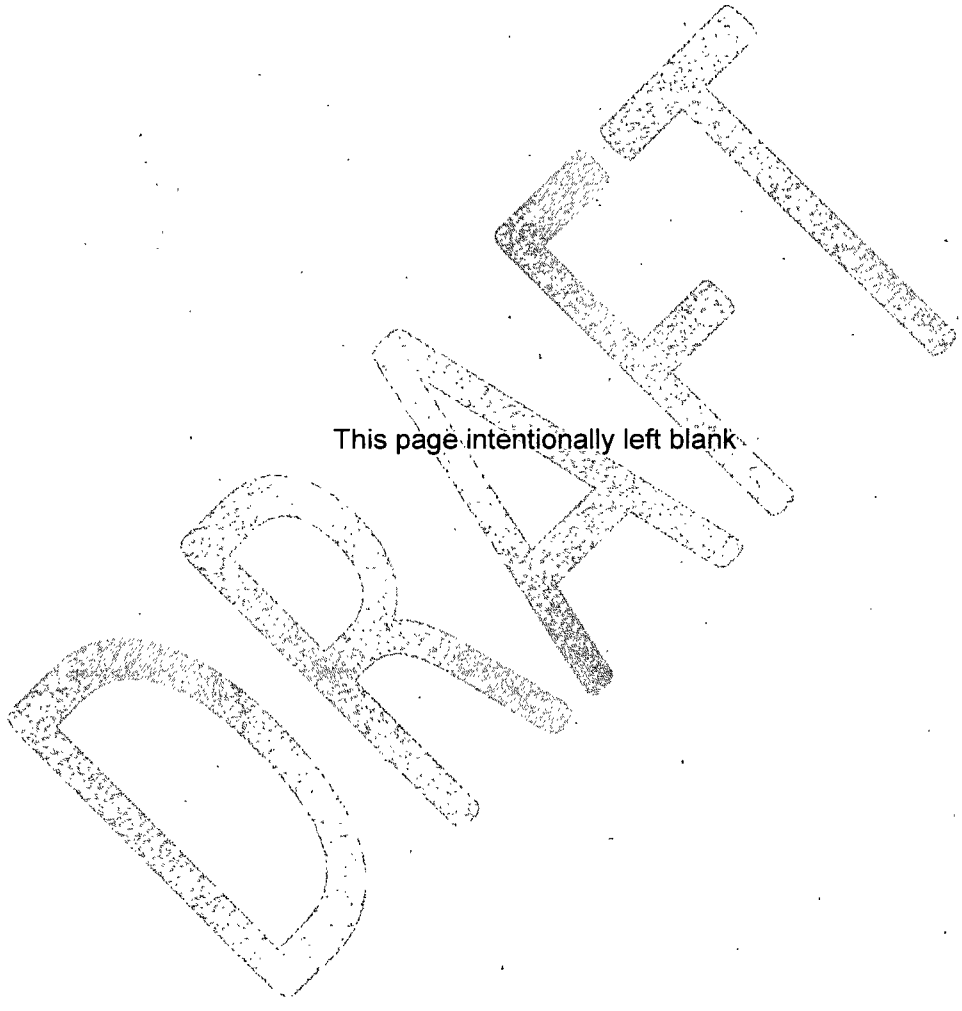

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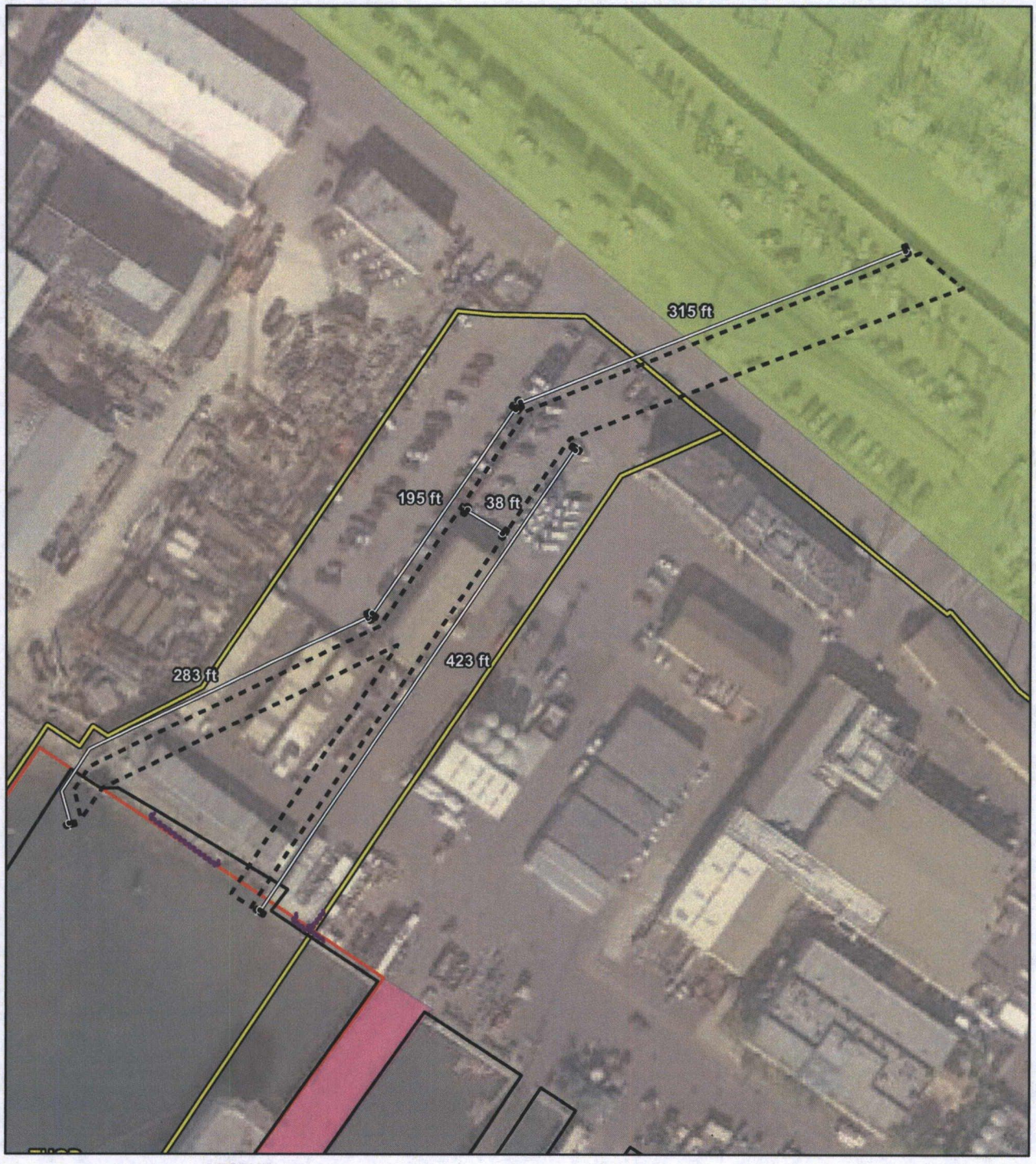

LEGEND

- Project Limits
- Port Jurisdiction
- City of San Diego Jurisdiction
- Existing Cooling Tunnels
- Remedial Footprint
- Project Features
  - Existing Pier 1
  - Submerged Cantilever Sheet Pile Bulkhead Wall – Part of Separate Project
  - Dredge Area

N

0 50 100
FEET

SOURCE: LSA, 2014, (Original file from Google Earth, 2013, and BAE Systems, 6/2014)

Cooling Tunnels
Pier 1N Dry Dock Project
BAE Systems San Diego Ship Repair

FIGURE
2-3

amec

Graphics/Aquatics/BAE/CoolingTunnelsv2.ai

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3.0 REGULATORY SETTING

The management of water resources and quality is regulated by both state and federal laws and regulations. These regulations are intended to mitigate risks related to the degradation of water quality. In addition to providing a regulatory framework for this Proposed Project, these regulations describe monitoring and reporting programs related to the preservation of water resources and quality. The following sections describe the federal and state laws and regulations that are applicable to the Proposed Project.

The Proposed Project will require compliance with all applicable regulatory requirements pertaining to storm water quality, including the District Jurisdictional Urban Runoff Management Plan (JURMP; District; 2008) and the District Standard Urban Storm Water Mitigation Plan (SUSMP). BAE Systems will comply with the requirements of its National Pollutant Discharge Elimination System (NPDES) Statewide General Construction Activities Storm Water Permit, including filing a Notice of Intent to the State Water Resources Control Board (SWRCB), implementing construction best management practices (BMPs), and performing ongoing monitoring during construction activities. BAE Systems will also prepare and submit an Urban Storm Water Mitigation Plan (USMP) to demonstrate how the Proposed Project will meet SUSMP requirements.

3.1 Federal Policies and Regulations

Clean Water Act

The federal Clean Water Act (CWA) (also known as the Water Pollution Control Act) is the cornerstone of surface water quality protection in the United States (U.S.). The statute employs a variety of regulatory and non-regulatory tools to sharply reduce pollutant discharges into waterways, finance municipal wastewater treatment facilities, and manage polluted runoff (33 United States Code [USC] 1251 et seq.). These tools are employed to achieve the broader goal of restoring and maintaining the chemical, physical, and biological integrity of the nation's waters (United States Environmental Protection Agency [USEPA], 2014a).

According to the CWA, the only way pollutants can be discharged into water is if authorized by a NPDES permit (USEPA, 2014b). Originally, the NPDES permit focused on reducing pollutants from discharges from industrial process wastewater and municipal sewage treatment plants. In 1987, the CWA was amended to require the USEPA to regulate storm water discharges through the use of the NPDES storm water permits. The NPDES permit program is administered by authorized states, including California.

Pertinent sections of the CWA include the following:

- *Section 401.* Under section 401, every applicant for a federal permit or license for any activity that may result in a discharge to a water body must obtain State Water Quality Certification that the proposed activity will comply with state water quality standards. Most Certifications are issued in connection with U.S. Army Corps of Engineers (USACE) CWA Section 404 permits for dredge and fill discharges.

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- *Section 404*. The USACE regulates discharge of dredged or fill material into waters of the U.S. under Section 404 of the CWA. Activities requiring Section 404 permits are limited to discharges of dredged or fill materials into the waters of the U.S.
- *Section 303(d)*. Section 303(d) of the CWA requires identification and listing of those water bodies that are water quality impaired. Once a water body has been deemed impaired, a total maximum daily load (TMDL) must be developed for each impairing water quality constituent. A TMDL is an estimate of the total load of pollutants from point, nonpoint, and natural sources that a water body may receive without exceeding applicable water quality standards (often with a "factor of safety" included that limits the total load of pollutants to a level well below that which could cause the standard to be exceeded). Once established, the TMDL is allocated among current and future dischargers into the water body. The receiving water for the project site, as described in greater detail below, is a Section 303(d) listed water body and is considered impaired for specific constituents.

Clean Water Act, Section 303, List of Water Quality Limited Segments

The SWRCB approved the 2010 Integrated Report (CWA Section 303(d) List/305(b) Report) on August 4, 2010 (SWRCB, 2014a). On November 12, 2010, the USEPA approved the 2010 California 303(d) List of Water Quality Limited Segments. San Diego Bay is listed as impaired for polychlorinated biphenyls (PCBs). The expected TMDL completion date is 2019. The San Diego Bay shoreline between Sampson Street and 28th Street is listed as impaired for copper, mercury, polycyclic aromatic hydrocarbons (PAHs), PCBs, and zinc. The expected TMDL attainment date is 2015 for copper and 2013 for all other constituents. San Diego Bay shoreline near the mouth of Chollas Creek is impaired for benthic community effects and sediment toxicity. The expected TMDL completion date is 2010. TMDLs for toxic pollutants in sediment at the mouth of Chollas Creek including PCBs, PAHs, and chlordane are currently being developed. Chollas Creek is listed as impaired for copper, diazinon, indicator bacteria, lead, phosphorous, total nitrogen as nitrogen, trash, and zinc. The expected TMDL completion date is 2004 for copper, lead, and zinc; 2005 for indicator bacteria; 2019 for phosphorous and total nitrogen as nitrogen; and 2021 for trash.

Oil Pollution Act

The Oil Pollution Act (OPA) was signed into law in August 1990, largely in response to rising public concern following the Exxon Valdez incident. The OPA improved the nation's ability to prevent and respond to oil spills by establishing provisions that expand the federal government's ability to respond to oil spills and to provide the funding and resources for these responses. The OPA also created the national Oil Spill Liability Trust Fund, which is available to provide funding to respond to spill incidents.

In addition, the OPA provided new requirements for contingency planning by both government and industry. The National Oil and Hazardous Substances Pollution Contingency Plan has been expanded in a three-tiered approach: (1) the federal government is required to direct all public and private response efforts for certain types of spill events; (2) Area Committees, composed of

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federal, state, and local government officials, must develop detailed, location-specific Area Contingency Plans; and (3) owners or operators of vessels and certain facilities that pose a serious threat to the environment must prepare their own Facility Response Plans.

Finally, the OPA increased penalties for regulatory noncompliance, broadened the response and enforcement authorities of the federal government, and preserved state authority to establish laws governing oil spill prevention and response.

Federal Emergency Management Agency

Federal Emergency Management Agency (FEMA) is an agency of the U.S. Department of Homeland Security with the primary purpose to coordinate response to disasters that overwhelm the resources of local and state authorities (FEMA, 2014a). President Carter's 1979 Executive Order merged various functions of disaster assistance and civil defense (previously handled by multiple agencies) under the direction of a single agency, FEMA. FEMA was created to coordinate the federal government's role in preparing for, preventing, mitigating the effects of, responding to, and recovering from all domestic disasters, whether natural or manmade, including acts of terror.

On March 21, 2014, President Obama signed the Homeowner Flood Insurance Affordability Act of 2014 into law. This law repeals and modifies certain provisions of the Biggert-Waters Flood Insurance Reform Act, which was enacted in 2012. FEMA will continue to identify and publish special flood hazards and flood risk zones as authorized and required by Congress. More information on the new law and its impacts on the National Flood Insurance Program (NFIP) will be forthcoming.

The Federal Insurance and Mitigation Administration and the Mitigation Directorate, which are components of FEMA, manage the NFIP. NFIP has developed Flood Insurance Rate Maps (FIRMs) that indicate areas with low, moderate, or high risk for flooding (FEMA, 2014b). FIRMs specifically illustrate a community's floodplain boundaries, base flood elevations (BFEs), and flood zones. Floodplain boundaries are the areas of land that could be impacted by flooding from a nearby body of water. BFE is the computed elevation (or height) to which floodwater is anticipated to rise during a 100-year flood. A 100-year floodplain is not an area subject to floods every 100 years; instead, it is land bordering a river or channel that can expect to be flooded in a storm that has a 1 percent chance of occurring each year.

FIRMs show different zone designations for various floodplains, depending on the risk of flooding (FEMA, 2014b). For example, Zone A covers areas that are subject to inundation by a 100-year flood and includes six different types, such as Zone AE, which is a floodplain where a BFE has been provided. Another example is Zone VE, which is a coastal area subject to a velocity hazard (wave action) where BFEs are provided on the FIRM, and Zone X, which is an area of minimal flood hazard and outside the 500-year flood level.

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Marine Protection, Research, and Sanctuaries Act of 1972, Section 103

Titles I and II of the Marine Protection, Research, and Sanctuaries Act (MPRSA), also referred to as the Ocean Dumping Act, generally prohibit (1) transportation of material from the U.S. for the purpose of ocean dumping; (2) transportation of material from anywhere for the purpose of ocean dumping by U.S. agencies or U.S.-flagged vessels; and (3) dumping of material transported from outside the U.S. into the U.S. territorial sea (USEPA, 2014c). A permit is required to deviate from these prohibitions.

Under MPRSA, the standard for permit issuance is whether the dumping will "unreasonably degrade or endanger" human health, welfare, or the marine environment. The USEPA is charged with developing ocean dumping criteria to be used in evaluating permit applications. The MPRSA provisions administered by the USEPA are published in Title 33 of the USC. The MPRSA provisions that address marine sanctuaries are administered by the National Oceanic and Atmospheric Administration and are published in Title 16 of the USC.

Rivers and Harbors Act, Section 10

Section 10 of the Rivers and Harbors Act (33 USC 401 et. seq.) requires authorization from the USACE for the construction of any structure in or over any navigable water of the U.S., the excavation/dredging or deposition of material in these waters, or any obstruction or alteration in a navigable water. Structure or work outside the limits defined for navigable waters of the U.S. require a Section 10 permit if the structure or work affects the course, location, condition, or capacity of the water body.

3.2 State and Local Policies and Regulations

Porter-Cologne Water Quality Act

In 1969, the California Legislature enacted the Porter-Cologne Water Quality Act (Porter-Cologne Act) to preserve, enhance, and restore the quality of the state's water resources (SWRCB, 2014c). The Porter-Cologne Act establishes water quality policies, enforces water quality standards for surface and ground water, and regulates discharges of pollutants. The Porter-Cologne Act establishes the SWRCB and nine Regional Water Quality Control Boards (RWQCBs) as the principal state agencies with the responsibility for controlling water quality in California.

State Water Resources Control Board/Regional Water Quality Control Boards

The SWRCB has the ultimate authority over state water rights and water quality policy. Nine RWQCBs are also established to oversee water quality on a day-to-day basis at the local and regional level. The SWRCB and RWQCBs are responsible for ensuring implementation and compliance with the provisions of the CWA and Porter-Cologne Act. The project site is located within SWRCB Region 9 under purview of the San Diego RWQCB (SDRWQCB).

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California Regional Water Quality Control Board, San Diego Region

The SDRWQCB regulates wastewater discharges to surface water (rivers, ocean, etc.) and to groundwater (via land). It also regulates storm water discharges from construction, industrial, and municipal activities; discharges from irrigated agriculture; dredge and fill activities; the alteration of federal water body under the Section 401 certification program; and several other activities with practices that could degrade water quality.

California Ocean Plan

Section 13170.2 of the California Water Code directs the SWRCB to formulate and adopt a water quality control plan for ocean waters of California. The SWRCB first adopted this plan, known as the California Ocean Plan, in 1972 (Ocean Protection Council, 2012). The California Water Code also requires a review of the California Ocean Plan at least every three years to guarantee that current standards are adequate and are not allowing degradation to indigenous marine species or posing a threat to human health. The amendments to the California Ocean Plan are reviewed and approved by the USEPA under the CWA.

The California Ocean Plan establishes water quality objectives and beneficial uses for California's ocean waters and provides the basis for regulation of wastes discharged into the state's coastal waters. The plan applies to point and nonpoint source discharges. Both the SWRCB and the six coastal RWQCBs implement and interpret the California Ocean Plan.

Water Quality Control Plan for the San Diego Basin

RWQCBs are required to develop and periodically update a Water Quality Control Plan, also known as a Basin Plan (SDRWQCB, 2011). The Water Quality Control Plan establishes water quality objectives for the ground and surface waters of the region and includes an implementation plan describing the actions by the SDRWQCB and others that are necessary to achieve and maintain these water quality objectives. The project site falls under the Water Quality Control Plan for the San Diego Basin (SDRWQCB, 2011).

As defined in the Porter-Cologne Act, water quality objectives are the set limits or levels of chemical constituents allowable in water (SDRWQCB, 2011). The designation of water quality objectives must satisfy all of the applicable requirements of the Porter-Cologne Act and the CWA. Through water quality objectives, the SDRWQCB provides for the reasonable protection of beneficial uses, taking into account existing water quality, environmental, and economic considerations.

National Pollutant Discharge Elimination System General Construction Permit

Pursuant to the CWA Section 402(p), which requires regulations for permitting of certain storm water discharges, BAE Systems will need to acquire a statewide NPDES permit for storm water discharges from the construction site and the dry dock once operative. Under this Construction General Permit, storm water discharges from construction sites with a disturbed area of one or more acres are required to obtain individual NPDES permits for storm water discharges or to be

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covered by the Construction General Permit. Coverage under the Construction General Permit is accomplished by completing and filing a Notice of Intent with the SDRWQCB. Each applicant under the Construction General Permit must ensure that a Storm Water Pollution Prevention Plan (SWPPP) is prepared prior to operations or construction. The primary objective of the SWPPP is to identify, construct, implement, and maintain best management practices (BMPs) to reduce or eliminate pollutants in storm water discharges and authorized non-storm water discharges from the construction site.

Municipal Permit

As delegated by the USEPA under the NPDES permit program, the SWRCB enforces the regulation of nonpoint source pollution and urban runoff in California, which uses a system of regional entities. A new Municipal Permit[2] was adopted by the SDRWQCB on May 8, 2013 that regulates discharges from Municipal Separate Storm Sewer Systems (MS4s) by establishing a new, watershed-based approach to plan and implement storm water programs (SDRWCB, 2013). The Municipal Permit includes 39 municipal, county government, and special district entities (referred to jointly as co-permittees) located in Southern Orange County, Southwestern Riverside County, and San Diego County. The co-permitees own and operate large MS4s that discharge storm water runoff and non-storm water runoff to surface waters throughout the San Diego region. The Municipal Permit requires each co-permittee to reduce discharges of pollutants and runoff flow during each of the following three major phases of urban development: planning, construction, and operation. New developments and redevelopment projects are required to identify and apply BMPs to reduce storm water pollutants to the maximum extent practicable (MEP). Elements of the Municipal Permit include the JRMP, and the post-construction BMPs.

Jurisdictional Runoff Management Plan

The NPDES permit program requires that each co-permittee implement a JRMP, which consists of the following components: land-use planning for new development and redevelopment; construction; existing development; education; illicit discharge detection and elimination; public participation; assessment of JRMP effectiveness; and fiscal analysis.

The primary objectives of the JRMP requirements are as follows:

- Ensure that discharges from municipal urban runoff conveyance systems do not cause or contribute to a violation of water quality standards;
- Effectively prohibit non-storm water discharges in urban runoff; and
- Reduce the discharge of pollutants from urban runoff conveyance systems to the MEP statutory standard.

[2] National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for Discharges from the Municipal Separate Storm Sewer System (MS4) Draining the Watersheds Within the San Diego Region (Municipal Permit) (Order Number R9-2013-0001, NPDES No. CAS0109266, Regional Board, 2013).

BMP Design Manual

The Municipal Permit requires co-permittees to incorporate a structural BMP performance requirements into their project approval process. The permitted parties are currently working on a BMP Design Manual which will be completed by June 2015. In the interim, the Standard Urban Stormwater Mitigation Plan (SUSMP) serves as the guidance document for BMP requirements for new development and redevelopment. The SUSMP, which was developed collaboratively by the co-permittees, addresses only land development and capital improvement projects. It is focused on project design requirements and related post-construction requirements, not on the construction process itself. Along with the detailed design procedure, the SUSMP includes design information and criteria for dispersal of runoff to landscaped areas and for pervious pavements, bioretention facilities, flow-through planters, infiltration trenches, infiltration basins, and cisterns (County of San Diego, 2011).

San Diego Bay Watershed Management Area Water Quality Improvement Plan

The new Municipal Permit requires that each jurisdictions' storm water program addresses priority receiving water conditions, focusing efforts toward measureable improvements in receiving water quality (District, 2014). To establish and implement these requirements, the new Municipal Permit requires that a Water Quality Improvement Plan (WQIP) be developed for the San Diego Bay Watershed Management Area (WMA). WMA responsible parties (RPs) included in the development of the WQIP are the County of San Diego, the Port of San Diego, the San Diego County Regional Airport Authority, and the Cities of Chula Vista, Coronado, Imperial Beach, La Mesa, Lemon Grove, National City, and San Diego. The California Department of Transportation (Caltrans) is also participating voluntarily in the development of the San Diego Bay WMA WQIP as a named party in the Chollas Creek TMDLs (District, 2014).

The final WQIP document will incorporate monitoring, assessment, and adaptive management processes for the Highest Priority Conditions and Focused Priority Conditions. The WQIP will develop final numeric goals for each Highest Priority Conditions and Focused Priority Conditions in addition to strategies that the RPs intend to implement to make measureable progress toward the goals. The document is currently in the second phase of development, and is intended to be finalized and submitted to the SDRWCB by June 2015 (District, 2014).

San Diego County Multi-Jurisdiction Hazard Mitigation Plan

The San Diego County Multi-Jurisdiction Hazard Mitigation Plan (County of San Diego, 2010) was prepared with input from responsible officials, the San Diego County Water Authority, the Rancho Santa Fe Fire Protection District, the California Emergency Management Agency, and FEMA. It was prepared in response to the Disaster Mitigation Act of 2000 and other federal legislation that reinforce the importance of mitigation planning and emphasize planning for disasters before they occur.

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This plan is intended to serve many purposes, including enhancing public awareness and understanding; creating a decision tool for management; promoting compliance with state and federal program requirements; enhancing local polices for hazard mitigation capability; providing inter-jurisdictional coordinating mitigation-related programming; and achieving regulatory compliance.

General Waste Discharge Requirements for Construction Non-Storm Water Discharges

General Waste Discharge Requirements (WDRs) (Dewatering General Permit) will be issued by the SDRWQCB, which governs non-storm water, construction-related discharges from activities associated with the upland dewatering staging areas. This permit addresses discharges from activities such as dewatering, water line testing, and sprinkler system testing. The discharge requirements include provisions mandating notification, testing, and reporting of dewatering and testing-related discharges. The General WDRs authorize such construction-related discharges as long as all conditions of the permit are fulfilled.

3.2.1 San Diego Unified Port District Policies and Regulations

District Jurisdictional Urban Runoff Management Plan

The District, as a co-permittee on the Municipal Permit, has prepared a JURMP document (District, 2008) and annual reports (District, 2012).[3] As identified in the District JURMP, the document has been developed to assist the District in identifying causes or contributions to water quality impacts, tracking urban runoff related activities, and implementing to the MEP BMPs to reduce or eliminate pollutants from reaching receiving waters in the District's jurisdiction.

The main objectives of the District's JURMP are to:

- Improve water quality in San Diego Bay and adjacent receiving waters;
- Minimize the urban runoff discharges from District tidelands; and
- Improve program management efforts related to urban runoff.

To achieve these objectives, the District engages in a number of activities, including employee training, tenant and public education/outreach, source identification, water quality monitoring, BMP development and implementation, inspections, code enforcement, and coordination with adjacent cities. Finally, as required by the Municipal Permit, the District compiles an Annual Report documenting the program activities conducted for the year.

[3] The new 5-year Municipal Permit (2015) redefines the JURMP as a JRMP.

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Standard Urban Storm Water Mitigation Plan[4]

The District, as a co-permittee on the Municipal Permit, jointly developed a model Jurisdictional SUSMP which meets the objectives of the JRMP (described in Section 3.2 under Municipal Permit) and can be used as a model for jurisdictional plans (District, 2011). The District SUSMP addresses post-construction urban runoff from new development and redevelopment projects that are considered to be "priority projects." The District SUSMP ensures to the maximum extent practicable that development will not increase pollutant loads and considers urban runoff flow rates, velocities, and durations. This may be achieved through site-specific controls and/or structural treatment controls. The District details specific steps for development projects to ensure adherence to the SUSMP. The District SUSMP includes a list of recommended BMPs, which are designed to remove pollutants to the maximum extent practicable.

Urban Storm Water Mitigation Plan

The District requires all new construction and redevelopment "priority projects" to comply with established SUSMP requirements. If SUSMP requirements apply, the project proponent must submit an USMP that describes how the project will meet SUSMP requirements. In general, the USMP must clearly convey the process used to identify pollutants of concern, conditions of concern, and BMPs selected for the project as well as to identify BMP maintenance requirements. The USMP must include storm water BMP maintenance provisions in an Operations and Maintenance Plan.

The SUSMP requirements apply to this project and therefore a USMP will be produced.

Storm Water Management and Discharge Control Ordinance

The District has adopted the Storm Water Management and Discharge Control Ordinance (Article 10), which sets forth requirements for dischargers to the District's storm water conveyance system and receiving waters. Article 10 also provides enforcement authorities to the District to implement its JRMP and any laws that provide protection and enhancement of water quality.

Specific objectives of Article 10 include the following:

- Reduce storm water runoff pollution;
- Reduce non-storm water discharge to the storm water conveyance system and receiving waters to the maximum extent practicable;
- Comply with all federal and state laws, lawful standards, and orders applicable to storm water and urban runoff pollution control;

[4] The permitted parties are currently working on a BMP Design Manual which will be completed by June 2015. In the interim, the District SUSMP serves as the guidance document for BMP requirements for new development and redevelopment.

- Prohibit any discharge that may interfere with the operation of, or cause damage to, the storm water conveyance system, or contribute to the impairment of the beneficial use or violation of a water quality objective of the receiving waters;
- Prohibit illegal discharges and illicit connections to the storm water conveyance system and receiving waters; and
- Develop and implement effective educational outreach programs designed to educate the public and District employees and tenants on issues of storm water and urban runoff pollution prevention.

This Ordinance requires compliance with general permits, including construction municipal permits or any general or individual storm water municipal permit, as well as compliance with BMPs, to reduce pollutants to the maximum extent practicable.

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4.0 PROJECT SETTING

BAE Systems currently leases approximately 9.8 acres of land and 16.6 acres of water on District tidelands property on the eastern waterfront of central San Diego Bay (Figure 1-1). BAE Systems (formerly operating as Southwest Marine Shipyard) began occupancy of the site in September 1979. Shipyard facilities operated over the years have included concrete platforms used for steel fabrication, two floating dry docks, five piers, and two marine railways that, together with cranes, enable ships to be launched or repaired. An assortment of waste has been generated at the facility, including spent abrasives, paint, rust, petroleum products, marine growth, sanitary waste, and general refuse. BAE Systems and former property owners at the site have historically performed ship repair and maintenance for the U.S. Navy and commercial customers (SDRWQCB, 2010). In addition to area included within the District tidelands lease, BAE Systems also currently subleases an approximately 2-acre land-side and 4-acre water-side parcel from the District via a TUOP[5].

BAE Systems maintains industrial facilities (production shops, offices, and related utilities, and infrastructure) for the maintenance, repair, overhaul, and conversion of large naval and commercial vessels. Waterfront storm water collection tanks are located along the shoreline near the Pier 4 abutment, which is located at the southern end of the facility near Schley Street. Additionally, there are areas of pavement and ramps, as well as buried pipes, a valve vault, utility vaults, three underground sewage lift stations, electrical substations, concrete revetments, and shoreline riprap and rubble.

Three working piers exist at BAE Systems to moor vessels for ship repair activities. These piers (Piers 1, 3 and 4[6]) currently accommodate berthing of large, deep-draft U.S. Navy and (to a lesser extent) commercial vessels, and include a variety of crane and utility services. Currently, BAE Systems acts as the prime contractor for five classes of U.S. Navy vessels: cruisers, destroyers, amphibious transport docks, dock landing ships, and mine countermeasures vessels. The facility is designed to support both pier-side repair (including vessel berthing) and dry dock repair, under multi-ship, multi-option contracts.

4.1 San Diego Bay Watershed

The project site is located on and adjacent to San Diego Bay, which originated from the alluvial plains of the Otay, San Diego, and Sweetwater Rivers. The San Diego Bay watershed encompasses a 415-square-mile area that extends more than 50 miles to the east to the Laguna Mountains. The watershed lies at sea level at San Diego Bay and reaches a maximum elevation of approximately 6,000 feet above sea level at the eastern boundary. Most of the watershed land area generally lies north of the border with Mexico and south of Interstate Highway 8. The headwaters of the watershed begin in the unincorporated area of San Diego County and then transect all or portions of seven cities.

[5] At the time of preparation of this Water Quality Technical Report, the Tidelands Use and Occupancy Permit (TUOP) with SDG&E, dated November 1, 2009 (Document No. 55689) expired on October 31, 2014. This parcel is currently leased to BAE Systems by the District via a 5-year TUOP.

[6] The replacement Pier 4 is currently under construction.

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Most of the freshwater input to San Diego Bay is from surface runoff from urban areas and intermittent flow from rivers and creeks during rainfall events. The major watercourses feeding San Diego Bay include the Sweetwater River, Otay River, Chollas Creek, Paleta Creek, Paradise Creek, and Switzer Creek. In winter, when San Diego County receives most of its precipitation, fresh water enters San Diego Bay via storm drains, urban runoff, streams, and flood control channels. In summer, freshwater flows into San Diego Bay are minimal, and evaporation of water from the surface of San Diego Bay increases. San Diego Bay is an "inverse" embayment, where evaporation exceeds freshwater inputs, creating a net inflow of ocean water.

Tides in San Diego Bay are classified as mixed diurnal/semi-diurnal, with the semi-diurnal component dominant. Generally, the tides in San Diego Bay consist of two low and two high tides per day on an approximately 2-week, spring-neap tidal cycle that is associated with the phase of the moon. Tides do not follow a 24-hour cycle, so some days experience only three of the four tides within a calendar day.

4.1.1 Pueblo San Diego Hydrologic Unit

As defined in the SDRWQCB Water Quality Control Plan for the San Diego Basin, watersheds are described as Hydrologic Units (HUs), Hydrologic Areas (HAs), and Hydrologic Subareas (SAs) (SDRWQCB, 2011). HUs are subdivided into HAs, which are divided into SAs. The purpose of hydrologic boundaries is to designate the area within a larger watershed that drains in a particular direction to a particular waterbody. HUs are the entire watershed of one or more streams, HAs are major tributaries and/or major groundwater basins within the HU, and SAs are major subdivisions of HAs, including both water-bearing and non-water-bearing formations.

According to the Water Quality Control Plan for the San Diego Basin, the project site is within the Pueblo San Diego HU, San Diego County's smallest HU (SDRWQCB, 2011). The Pueblo San Diego HU is a triangular-shaped area of about 60 square miles with no major stream system. It is bordered to the north by the watershed of the San Diego River and on the south, in part, by that of the Sweetwater River. The major population center is the City of San Diego. The unit is relatively dry with an annual precipitation of less than 11 to 13 inches. The San Diego Bay lies offshore of this unit.

The Pueblo San Diego HU comprises the following three HA boundaries: Point Loma, San Diego Mesa, and National City. The project site is specifically located within the San Diego Mesa HA boundary and Chollas HA boundary (SDRWQCB, 2011).

4.1.2 Surface Water Quality

Tidal exchange in San Diego Bay exerts control over the flushing of contaminants, salt and heat balance, and residence time of water. The ebb and flow of tides mix ocean and San Diego Bay waters. Tides produce currents, induce changes in salinity, and alternately expose and wet portions of the shoreline. Tidal flushing and mixing are important for dispersing pollutants, maintaining water quality, and moderating water temperature that has been affected by exchange with the atmosphere or heating.

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Primarily, water quality in north-central San Diego Bay, where the project site is located, is affected by tidal flushing and currents. Water quality also is influenced locally by freshwater inflows. Major contaminants found in San Diego Bay include chlorinated hydrocarbons, toxic components of petroleum hydrocarbons, PAHs, PCBs, heavy metals, and organotins such as tributyltin.

As discussed in Section 3.1, San Diego Bay is impaired for several constituents. A total of 172 acres of San Diego Bay are designated as contamination hot spots that contain toxic sediments and degraded benthic communities due to both point and nonpoint sources. The San Diego Bay shoreline between Sampson Street and 28th Street is impaired for copper, mercury, PAHs, PCBs, and zinc.

Water quality characteristics (e.g., salinity, temperature, and dissolved oxygen) form a gradient within San Diego Bay: waters in northern San Diego Bay are similar to ocean conditions; waters in southern San Diego Bay are strongly affected by shallow depths, fresh water inflows, and insulation; and waters in central San Diego Bay are intermediate in character. The turbidity (i.e., the amount of particulate matter in suspension in the water column) of San Diego Bay waters is affected by phytoplankton blooms; inputs of fine sediments from surface runoff during and after storms; and sediment resuspension by winds, waves, and human activities. Consequently, an increase in turbidity can limit light penetration and the level of primary production. Turbidity in San Diego Bay varies both temporally and spatially.

4.1.3 Beneficial Uses

Beneficial uses are defined within the Basin Plan as the uses of water necessary for the survival or well-being of man, plants, and wildlife (SDRWQCB, 2011). The following beneficial uses, as defined statewide, are designated within the project area and are shown in Table 4-1:

- Municipal and Domestic Supply (MUN) – Includes uses of water for community, military, or individual water supply systems, including, but not limited to, drinking water supply.
- Water Contact Recreation (REC-1) – Includes uses of water for recreational activities involving body contact with water, where ingestion of water is reasonably possible. These uses may include, but are not limited to, swimming, wading, water-skiing, skin and SCUBA diving, surfing, whitewater activities, fishing, and use of natural hot springs.
- Non-contact Recreation (REC-2) – Includes the uses of water for recreational activities involving proximity to water, but not normally involving body contact with water where ingestion of water would be reasonably possible. These uses may include, but are not limited to, picnicking, sunbathing, hiking, beachcombing, camping, boating, tidepool and marine life study, hunting, sightseeing, and aesthetic enjoyment in conjunction with the above activities.
- Warm Freshwater Habitat (WARM) – Includes the uses of water that support warm water ecosystems, including, but not limited to, preservation or enhancement of aquatic habitats, vegetation, and fish or wildlife including invertebrates.

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- Wildlife Habitat (WILD) – Includes the uses of water that supports wildlife habitats that may include, but are not limited to, the preservation and enhancement of vegetation and prey species used by waterfowl and other wildlife.
- Industrial Service Supply (IND) – Includes uses of water for industrial activities that do not depend primarily on water quality, including, but not limited to, mining, cooling water supply, hydraulic conveyance, gravel washing, fire protection, or oil well re-pressurization.
- Navigation (NAV) – Includes uses of water for shipping, travel, or other transportation by private, military, or commercial vessels.
- Commercial and Sport Fishing (COMM) – Includes the uses of water for commercial or recreational collection of fish, shellfish, or other organisms, including, but not limited to, uses involving organisms intended for human consumption or bait purposes.
- Estuarine Habitat (EST) – Includes uses of water that support estuarine ecosystems, including, but not limited to, preservation or enhancement of estuarine habitats, vegetation, fish, shellfish, or wildlife (e.g., estuarine mammals, waterfowl, shorebirds).
- Marine Habitat (MAR) – Includes uses of water that support marine ecosystems including, but not limited to, preservation or enhancement of marine habitats, vegetation such as kelp, fish, shellfish, or wildlife (e.g., marine mammals, shorebirds).
- Preservation of Biological Habitats of Special Significance (BIOL) – Includes uses of water that support designated areas or habitats, such as established refuges, parks, sanctuaries, ecological reserves, or Areas of Special Biological Significance (ASBS), where the preservation or enhancement of natural resources requires special protection.
- Rare, Threatened, or Endangered Species (RARE) – Includes uses of water that support habitats necessary, at least in part, for the survival and successful maintenance of plant or animal species established under state or federal law as rare, threatened, or endangered.
- Migration of Aquatic Organisms (MIGR) – Includes uses of water that support habitats necessary for migration, acclimatization between fresh and salt water, or other temporary activities by aquatic organisms, such as anadromous fish.
- Spawning, Reproduction, and/or Early Development (SPWN) – Includes uses of water that support high-quality aquatic habitats suitable for reproduction and early development of fish. This use is applicable only for the protection of anadromous fish (e.g., those fish that transition between saltwater and freshwater conditions).
- Shellfish Harvesting (SHELL) – Includes uses of water that support habitats suitable for the collection of filter-feeding shellfish (e.g., clams, oysters, and mussels) for human consumption, commercial, or sport purposes.
- Aquaculture (AQUA) – Includes the uses of water for aquaculture or mariculture operations, including, but not limited to, propagation, cultivation, maintenance, or harvesting of aquatic plants and animals for human consumption or bait purposes.

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Table 4-1.
Surface Water Beneficial Uses Within the Project Area

Basin	Hydrologic Unit	Beneficial Use															
		MUN	REC-1	REC-2	WARM	WILD	IND	NAV	COMM	BIOL	EST	RARE	MAR	MIGR	SPWN	SHELL	AQUA
Pacific Ocean		●	●	●		●	●	●	●	●		●	●	●	●	●	●
San Diego Bay			●	●		●	●	●	●	●	●	●	●	●	●	●	
Chollas Creek	8.22	+	○	●	●	●											

Notes:
+ Excepted from MUN
○ Potential Beneficial Use
● Existing Beneficial Use
Source: SDRWQCB, 2011

4.1.4 Groundwater

Groundwater basins are defined in the Water Quality Control Plan for the San Diego Basin by the same HUs, HAs, and SAs as are surface waters. Groundwater at the project site has substantial saltwater intrusion and is unsuitable for use as drinking water (LSA, 2011). The existing shoreline where the bulkhead will be constructed is covered in impervious surfaces that do not support surface recharge of groundwater.

4.1.5 Drainage and Flood Control

The existing shoreline under the TUOP parcel is mostly flat and covered in impervious surfaces (primarily pavement). During construction activities (including potential future demolition of the cooling tunnels, installation of sheet piles, ramp wharf construction, installation of new utilities, demolition and installation of mooring dolphins, and deployment of the new dry dock), storm water will be contained onsite; therefore, no treatment control BMPs will be necessary.

The project site is located within Flood Insurance Rate Map (FIRM) panel number 06073C1884F (FEMA, 2014b). The shoreline is located in Zone X, which is an area determined to be outside the 500-year floodplain (Figure 4-1). The San Diego Bay is located within Zone AE, which is a special flood hazard area that would be inundated by a 100-year flood.

The San Diego County Multi-Jurisdiction Hazard Mitigation Plan used the FIRM data to determine hazard risk for floods in San Diego County. This plan also identified the project site, as well as most of the San Diego County coastal areas, as being within a coastal storm/erosion/tsunami hazard area. However, the project site is not within an identified FEMA VE Zone, which is a high-risk tsunami zone (County of San Diego, 2010).

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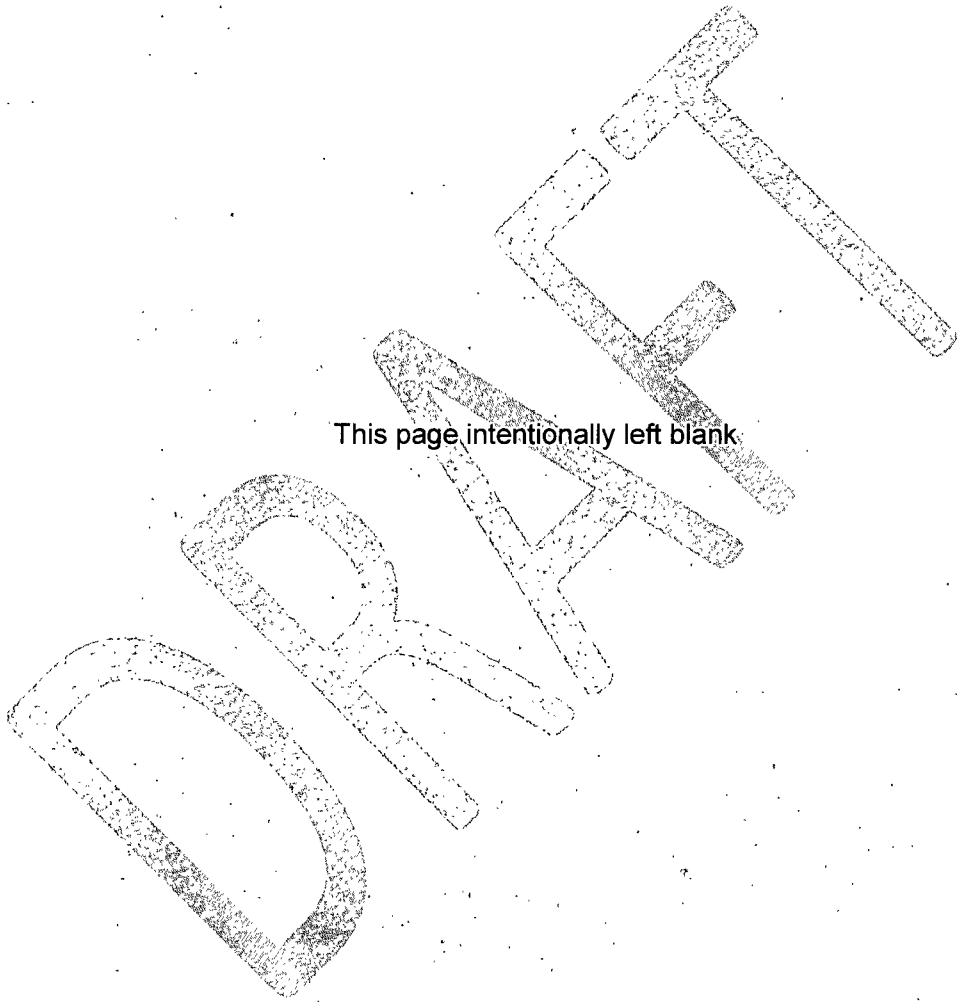

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Path: Q:\Aquatics\BAE\MXD\ReportFigures\Pier1N_EIR\Fig3-4_FEMA_Zones.mxd, aaron.johnson, 10/28/2014

Source: ESRI - 2011

FEMA Zones
Pier 1N Dry Dock Project
Water Quality and Hydrology Technical Report
BAE Systems San Diego Ship Repair

FIGURE 4-1

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4.2 Project Site Sediment Quality

Two components of the Proposed Project relate to project site sediment quality: 1) dredging associated with the installation of the new dry dock on the northern side of Pier 1; and 2) removal of the intake/discharge cooling tunnels from the TUOP parcel.

4.2.1 New Dry Dock Sump Dredging

The installation of a new dry dock on the northern side of Pier 1 will require dredging of approximately 395,000 cy of San Diego Bay bottom. The purpose of the dredging is to create a deep hole (referred to as a dry dock sump) in the bay bottom into which the floating dry dock can be submerged during ship loading and unloading operations.

The design depth needed to accommodate new dry dock operations is -65 feet MLLW (Figure 4-2). The dry dock dimensions will be approximately 205 feet by 851 feet, plus an apron on each end. While most of the dry dock dredging will be performed east of the U.S. Pierhead Line within Port tidelands jurisdiction, dredging will also take place west of the U.S. Pierhead Line within the jurisdiction of the California State Lands Commission and the California Coastal Commission. In addition to Port District approvals, the Proposed Project will also require separate authorizations from these state agencies, as well as the USACE and the SDRWQCB.

Dry dock sump dredging will involve excavation of bay sediments considerably deeper than the existing bottom grade. The vertical profile of the dredge footprint includes two different types of sediments: (1) unconsolidated, recently deposited sediments, and (2) dense, native materials that have never been dredged. Approximately 80 percent of the dredged material is native sediment deposits, with a smaller fraction of the dredged material, approximately 20 percent, being unconsolidated bay mud (Figure 4-3).

To identify suitable disposal locations for the approximately 395,000 cy of dry dock sump dredged material, an extensive sediment characterization study was conducted in accordance with USACE and USEPA testing guidelines. The dry dock sump sediment characterization program was performed in accordance with a Sampling and Analysis Plan that was reviewed and approved by the USACE and USEPA (AMEC Environment & Infrastructure, Inc. [AMEC], 2014a). The results of the sediment characterization study are detailed in the report entitled *Draft Pier 1N Dry Dock Sump Dredging Project, Dredged Material Characterization Study, BAE Systems San Diego Ship Repair, San Diego, California* (AMEC, 2014b).

The sediment characterization study was conducted to evaluate the suitability of the dredged material for a range of disposal options, including disposal at the LA-5 Ocean Dredged Material Disposal Site (ODMDS) and/or beneficial reuse for mitigation or beach nourishment. Ocean disposal of dredged materials is regulated under Section 103 of the MPRSA, Title 33 CFR 320-330 and 335-338. Environmental evaluations of dredged materials proposed for ocean disposal must comply with applicable criteria published in Title 40 CFR 220–238. Discharges of fill (e.g., beneficial reuse such as beach nourishment or in-bay fill for mitigation) in waters of the U.S. are subject to Section 404 of the CWA. CWA Section 404 discharges of dredge material also require a CWA Section 401 WQC from the SDRWQCB.

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The suitability of dredged material for unconfined aquatic disposal is determined by the USACE and USEPA on the basis of review of the multi-tiered sediment testing results. Any sediment deemed unsuitable for aquatic disposal by the USACE/USEPA will require placement in a designated upland landfill. The practice of dredging with upland landfill disposal of sediments has undergone considerable CEQA review and permitting for several recently completed and ongoing projects at the BAE Systems San Diego Ship Repair facility and other locations. Recent upland projects include the "Pride of San Diego" (POSD) Dry Dock Sump Maintenance Dredging Project and the Pier 4 Replacement Project. Ongoing upland landfill disposal activities are being implemented for the San Diego Shipyard Sediment Remediation Project. The dredging, treatment, transfer, and transportation methods employed for landfill disposal of contaminated dredged materials are well documented and are described in detail in the San Diego Shipyard Sediment Remediation Project Remedial Action Plan (RAP) (Anchor QEA, 2012).

4.2.1.1 Dredged Material Study Results

BAE Systems' testing program for the Proposed Project included collection of core samples in May 2014 at numerous locations throughout the unconsolidated, upper layers of the dry dock sump footprint. The sediment core samples were subjected to a battery of tests in accordance with the guidelines of the USEPA and the USACE, as outlined in (1) *Evaluation of Dredged Material Proposed for Ocean Disposal* (referred to as the "Green Book") (USEPA/USACE, 1991), and (2) *Evaluation of Dredged Materials Proposed for Discharge in Waters of the United States*, EPA-823-B-98-004 (Inland Testing Manual [ITM]) (USEPA/USACE, 1998).

The sediment testing program included the following analyses: (1) physical analyses to determine the grain size of the dredged materials (e.g., percentage of sand, percentage of fines); (2) chemical analyses for a suite of contaminants of concern, including heavy metals, petroleum hydrocarbons, chlorinated and pyrethroid pesticides, polychlorinated biphenyls, organotin compounds, polycyclic aromatic and petroleum hydrocarbons, and others; (3) sediment and water column toxicity analyses using sensitive marine organisms as indicators for acute and chronic toxicity (e.g., amphipods, bivalve larvae); and (4) exposures using worms and clams to assess the potential for organisms to bioaccummulate chemicals into their tissues.

Sediment samples found deeper in the footprint (i.e., native sediments) were collected using soil-boring equipment (a hollow-stem auger). The native sediments within the dredge footprint were collected during the geotechnical evaluation performed by TerraCosta Consulting Group in June 2014. A soil-boring device was needed to penetrate deep into the dense, consolidated native sediments found below the upper unconsolidated surface sediments. Because these deeper sediments have never been exposed to sources of contamination, the sediment testing regime for these samples was limited to physical and chemical analyses.

4.2.1.2 Dredged Material Study Results – Surface Sediments

Dredged material disposal location suitability is determined by comparisons of the chemical levels, toxicity, and bioaccumulation results from the project site sediment with guideline values (e.g., effects range-low [ERLs] and effects range-median [ERMs]) and statistical comparisons of the test results with reference sediment tests.

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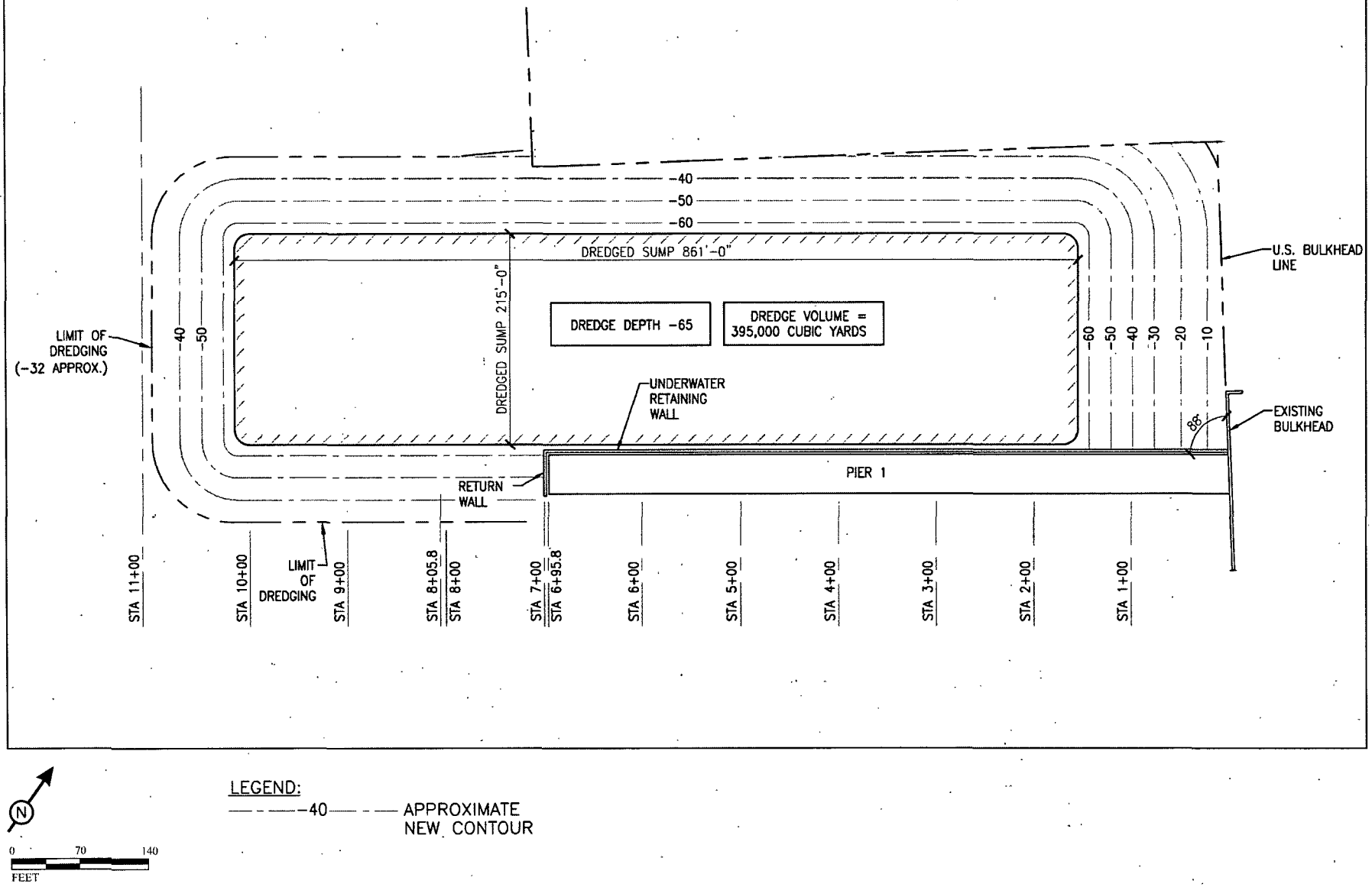

SOURCE: LSA, 2014 (Original file from BAE Systems, 2014)

Conceptual Design – Proposed Dredging Depths
Pier 1N Dry Dock Project
Water Quality and Hydrology Technical Report
BAE Systems San Diego Ship Repair

FIGURE
4-2

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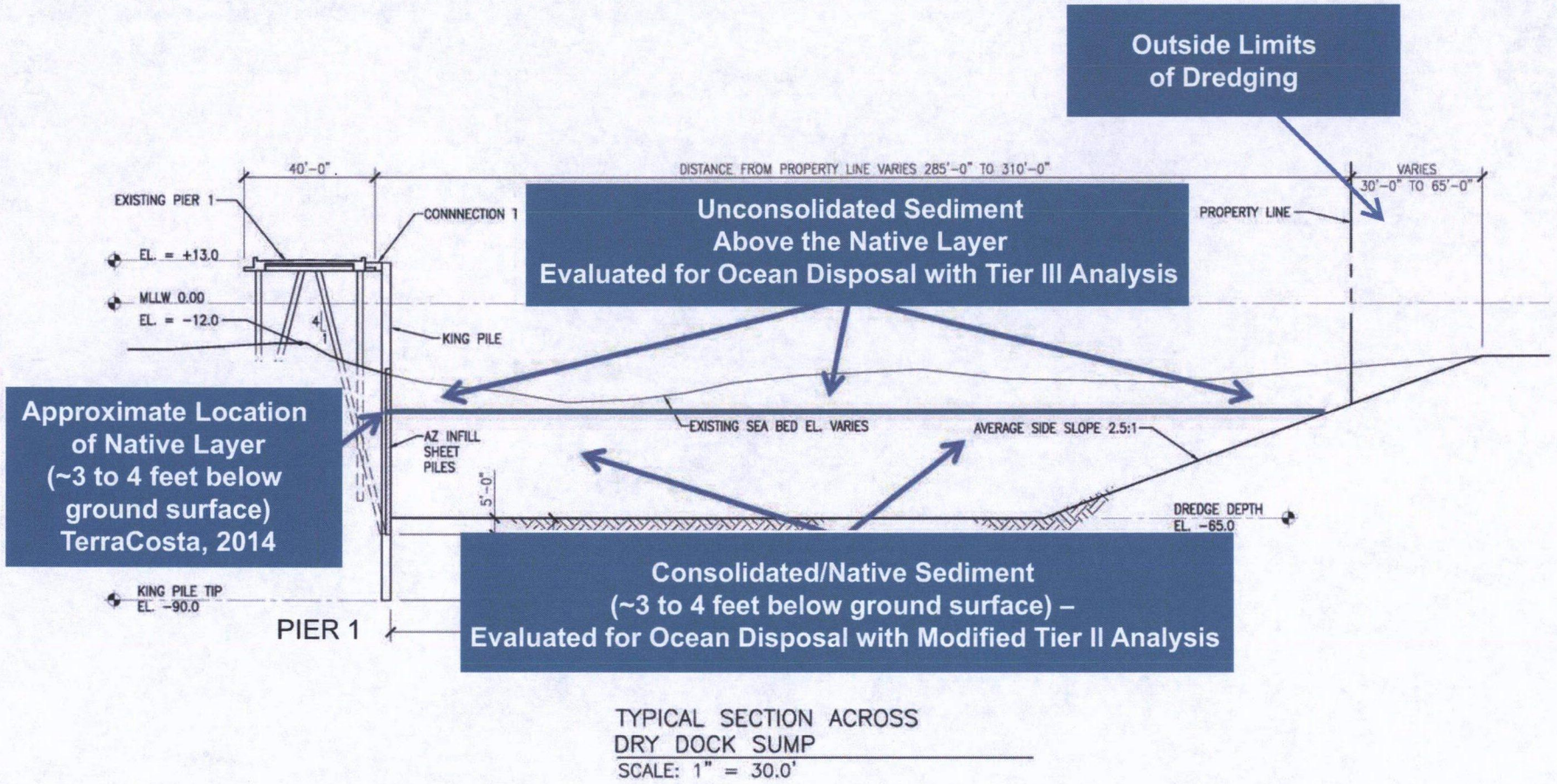

TYPICAL SECTION ACROSS
DRY DOCK SUMP
SCALE: 1" = 30.0'

SOURCE: Triton Engineers, 2014

Note: Cross section view point is from bulkhead. Pier 1 is on the left side of the page.

Disposal Consideration Cross-Section
Pier 1N Dry Dock Dredging
BAE Systems San Diego Ship Repair
San Diego Bay

FIGURE
4-3

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Graphics/Aquatics/BAE/DisposalConsiderationXSecv1.ai

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Results of the testing conducted on the unconsolidated dry dock sump sediment showed the following:

1. Comparison of the sediment chemistry results for sediments collected in the dry dock sump footprint with the ERL/ERM guideline values and the reference sediment results indicates, in general, that most of the test sediments collected within the dredge footprints contain low concentrations of chemical contaminants.
2. Results of the water column and sediment toxicity tests showed no significant effects on test organisms exposed to dry dock sump dredged material samples.
3. No significant bioaccumulation of chemicals was observed in clams or worms exposed to dry dock sump sediments.

4.2.1.3 Dredged Material Study Results – Native Sediments

Analysis of the native layer indicated little to no anthropogenic influence in the sediment chemistry below the unconsolidated-native sediment interface. This finding verifies that the native material is clean, native sediment that is free of chemical contaminants.

4.2.1.4 Dredged Material Study Results – Disposal Suitability Determination

Based upon low chemical levels, and lack of significant toxicity and bioaccumulation, it appears that these sediments within the dry dock footprint meet the limiting permissible concentration for unconfined aquatic disposal as outlined in the Ocean Dumping Law and CWA Section 404. The ultimate decision regarding disposal site suitability is made by the USACE in consultation with the USEPA. The agencies' determination of ocean disposal suitability will likely be finalized in November 2014[7].

Evaluation of beneficial reuse options for the Proposed Project dredged materials that are deemed suitable for unconfined aquatic disposal is being conducted by Merkel & Associates for BAE Systems. The final beneficial reuse option(s) will require approval by the USACE/USEPA and be permitted by all appropriate agencies prior to placement.

4.2.1.5 Dredged Material Study Results – Potential Additional Testing

As mentioned previously, the San Diego Shipyard Sediment Remediation Project (i.e. the CAO Area dredging project) will be completed before any of the dredging activities associated with the Proposed Project are initiated. For the CAO Area dredging project to be considered complete, post-dredge confirmation sediment testing is required. The confirmation testing will be conducted to verify that the contaminant levels (i.e. concentration levels) in the post-dredge

[7] In an e-mail dated November 17, 2014, from Robert Smith of the USACE to Shaun Halvax of BAE Systems SDSR, the USACE and USEPA provided their preliminary determination on the suitability of the Proposed Project dredged material for unconfined aquatic disposal. The USEPA concluded, "Overall, the proposed sediments from composite areas A and B appear to be suitable for unconfined aquatic disposal at LA-5 or other beneficial reuse options; there appear to be sandy sediments available from this project, particularly in the consolidated native sediments below the unconsolidated muddy layer." The USACE concurred by stating, "The Corps concurs with EPA in reference to the chemical contaminant concentrations being below the ERL and ERM screening levels under Item 3. The submitted bioassays also indicate the dredged material is suitable for unconfined aquatic disposal per Item 4. below." The agencies also requested additional information regarding beneficial reuse options for the material.

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surface sediments meet the cleanup objectives contained in the CAO for all primary contaminants of concern.

Once the San Diego Shipyard Sediment Remediation CAO Area dredging has been deemed complete by the SDRWQCB, any remaining unconsolidated sediment in the CAO area of the Proposed Project footprint considered for unconfined aquatic disposal will need to be tested in accordance with USACE/USEPA guidance (i.e., Green Book and ITM) to determine disposal site suitability. To date, none of the unconsolidated surface sediments within the CAO area have been tested for unconfined aquatic disposal suitability. The deeper native sediments in the CAO area, however, have been chemically tested and appear to meet the criteria for placement at LA-5 ODMDS.

Following completion of the CAO dredging and subsequent closure of the site, it is expected that any remaining residual unconsolidated sediments that are characterized will pass all required Green Book tests and be deemed suitable for unconfined aquatic disposal at the LA-5 ODMDS. However, if any portion of the dredged material does not meet Ocean Dumping Law criteria, the unsuitable sediment would need to be placed in an upland landfill. In the event that upland disposal is required, this activity would be conducted according to the standards and practices that were previously employed by BAE Systems for other CEQA-certified and agency-permitted projects (e.g. Pier 4 Replacement Project).

4.3 Existing Operations

BAE Systems currently has one floating dry dock—the "Pride of San Diego" (POSD), which has been operating at the facility since 1984. BAE Systems formerly operated a second dry dock at the facility (the "Diligence"), but in 2010 it was sold and relocated to the South Bay. In 2013, the dry dock was removed from San Diego Bay. Over the past five years, BAE Systems has averaged four dry dockings per year.

The proposed location of the new dry dock eliminates one large vessel wet berth at Pier 1N (Figure 4-4). Similar to the existing dry dock, the new dry dock at Pier 1N will be used to conduct repair and maintenance activity that cannot normally be conducted while the vessel is submerged. These activities generally include exterior hull repair, preservation (abrasive blasting and/or hydro-blasting and painting), shaft repair, propeller and rudder repair, and repair/replacement of valves and fittings below the waterline. Ships are docked by lowering (submerging) and then raising the dry dock by means of integral ballast tanks, which take in and discharge seawater. Once the dry dock is lowered, a vessel is positioned within the dock. The dry dock is then raised, and the ship is lifted out of the water.

Wastes generated during ship repair in dry dock may include spent abrasives, paint, rust, petroleum products, marine growth, and general refuse, all of which are contained and then transferred to shore facilities for disposal. Environmental protection related to dry dock operations includes complete encapsulation of the vessel to prevent fugitive particulate emissions, storm water collection, and zero discharge of industrial wastewater. In addition, BAE Systems enforces a stringent Best Management Practices (BMP) Manual (BAE Systems 2013)

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and detailed standard operating procedures (SOPs) for its dry dock operations and hazardous material handling activities at the shipyard.

4.4 Intake/Discharge Cooling Tunnels

The 2-acre TUOP parcel currently has two subsurface intake/discharge water tunnels that were installed by San Diego Gas and Electric (SDG&E) and previously used for intake/discharge of cooling water for the SDG&E Silvergate Power Plant.[8] The intake/discharge tunnels consist of two tunnels for intake water and two tunnels for outbound water. San Diego Bay water was used as once-through, non-contact cooling water in the power plant. Each of the four tunnels is approximately 8 feet by 8 feet. Each tunnel is approximately 700 feet long with an 8-foot square opening. As depicted in Figure 2-3, the portions of the tunnels within the District's jurisdiction stretch from the southern curb of Belt Street to San Diego Bay and consist of approximately 490 feet of intake tunnels and approximately 450 feet of discharge tunnels. Outside the District's jurisdiction, the tunnels traverse for an additional 250 feet north of the existing leasehold beginning at East Belt Street, crossing underneath Burlington Northern Santa Fe Railway property, and extending into the existing SDG&E substation north of the Proposed Project site. The Silvergate power plant was removed in 2007 and the intake/discharge tunnels are no longer in operation. The removal of the existing intake/discharge tunnels within the TUOP parcel could occur during the construction of the proposed dry dock or at a future time. Figure 4-5 illustrates the conditions of the entrance to the intake/discharge water tunnels.

Subsurface Investigations

In December 2010, Ninyo & Moore performed a subsurface investigation that included conducting cone penetration testing (CPT) and Ultraviolet Optical Screening Tool (UVOST) analyses at 38 locations to depths ranging from 40 to 48 feet below ground surface (bgs); advancing 28 soil borings; and installing 15 temporary wells to collect groundwater samples (Ninyo & Moore, 2011). Ninyo & Moore also collected sediment samples from the cooling tunnels. Based on visual observation of the sediment extracted from the two cooling water tunnels, the sediment generally consisted of silty sands to sandy silts. Sediment samples from the discharge and intake tunnels had a slight hydrocarbon odor, and the samples were generally gray to black in color. The study found concentrations of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), PAHs, PCBs, and metals above the laboratory detection limits in soil, groundwater, and the cooling tunnel sediment samples.

An additional Phase I Environmental Site Assessment was performed by Ninyo & Moore for the District in 2014 (Ninyo & Moore, 2014). Based on the findings of the draft Phase I ESA, there is a moderate to high probability that hazardous materials or wastes are present at the site. Any soil or groundwater generated may result in a short-term increase of hazardous waste disposal. If hazardous materials or wastes are encountered during construction activities (e.g., contaminated soil and groundwater), there is low likelihood that the disturbance would create a

[8] The SDG&E Silvergate Power Plant ceased operations in 1984. In 2007, SDG&E completed the abatement, decontamination, and dismantlement of all interior equipment and demolition of the structure. (Cleveland Wrecking Company, http://clevelandwrecking.com/sdge-silvergate-power-2/, website accessed July 9, 2014.) However, the SDG&E cooling tunnels associated with the Silvergate Power Plant remain, but are required to be removed under existing agreements between the District and SDG&E.

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significant hazard to the public or the environment, with the implementation of mitigation measures outlined in Section 6.0, Mitigation Measures.

In addition, the cooling tunnels currently have an opening to the San Diego Bay that would be removed following tunnel removal. This change would mean there is no longer a connection to San Diego Bay.

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Existing Pier 1.

SOURCE: LSA, 2014

Existing Conditions at Pier 1N
Pier 1N Dry Dock Project
Water Quality and Hydrology Technical Report
BAE Systems San Diego Ship Repair

FIGURE
4-4

Graphics/Aquatics/BAE/ExistingConditionsv2.ai

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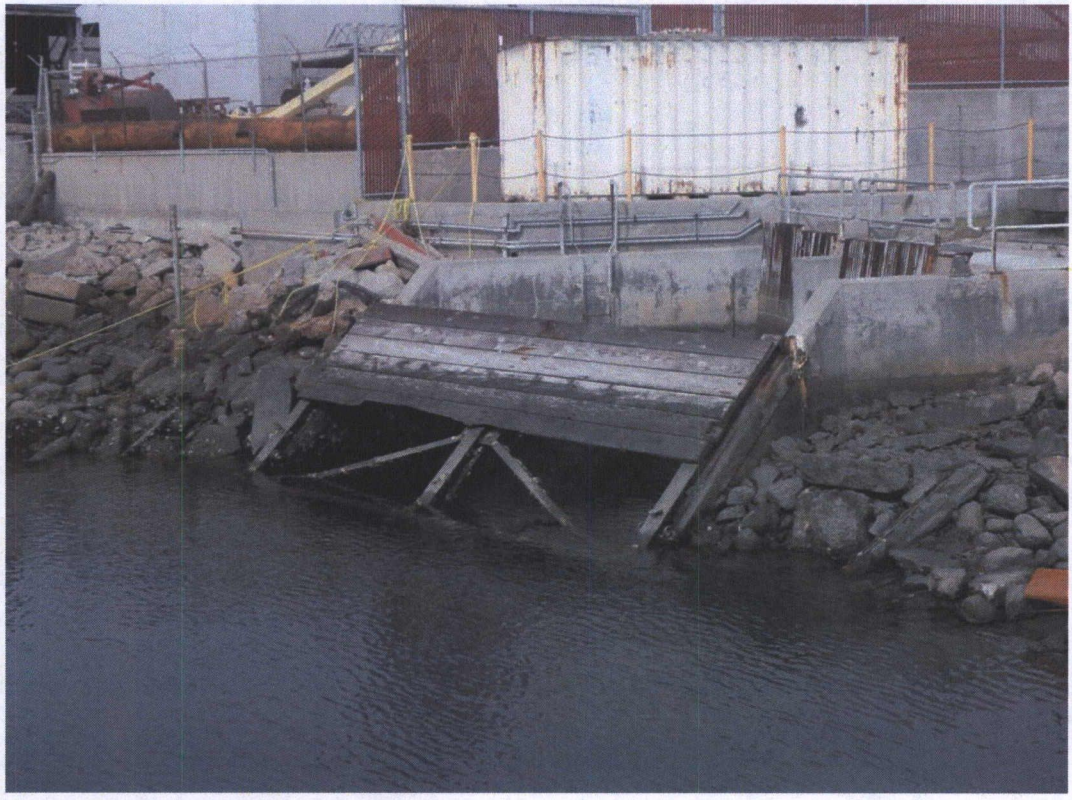


Tunnel 12 (Northern part of project limits)



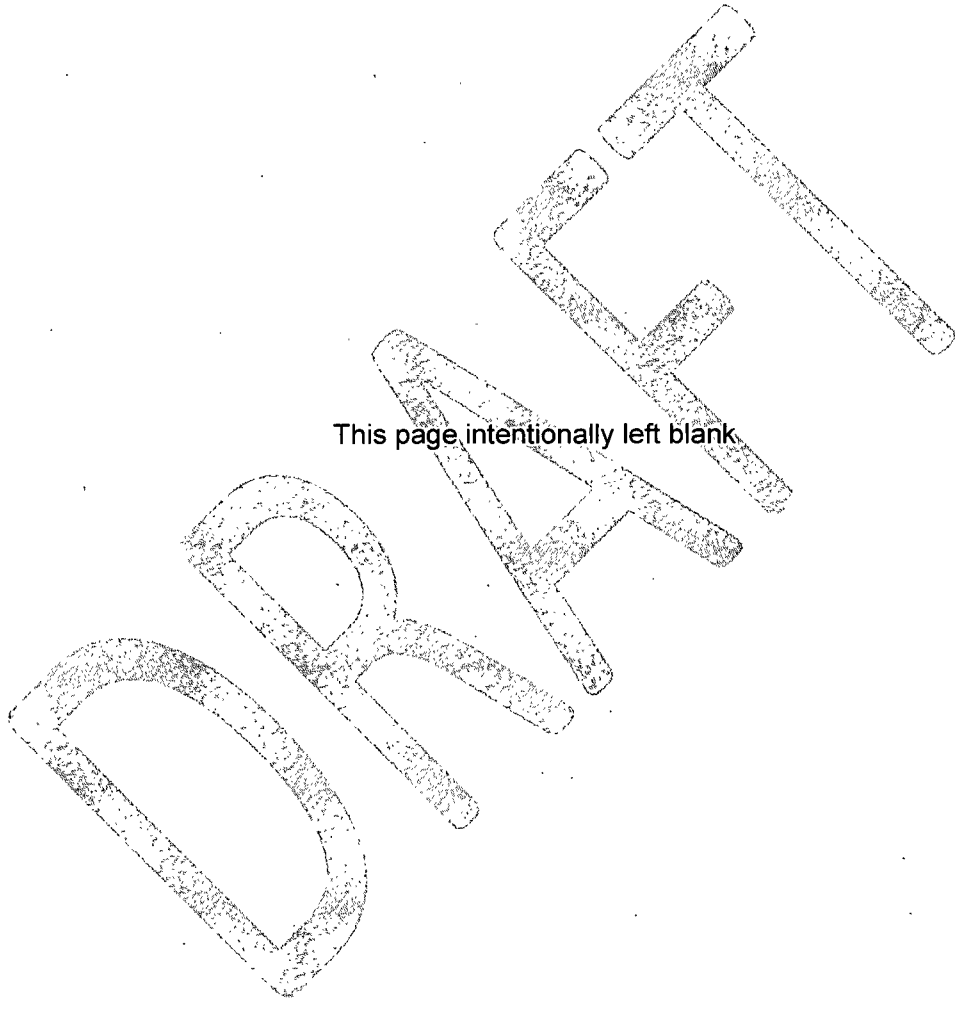
Tunnel 13 (Southern part of project limits)

Condition of the Intake/Discharge Water Tunnel Entrances
Pier 1N Dry Dock Project
Water Quality and Hydrology Technical Report
BAE Systems San Diego Ship Repair

FIGURE
4 -5

amec

Graphics/Aquatics/BAE/Tunnels12and13 v2.ai



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5.0 ENVIRONMENTAL ANALYSIS

This section describes the potentially significant impacts to water quality and hydrology associated with the following Proposed Project components:

- Installation of a new dry dock on the northern side of its Pier 1; and
- Preliminary program-level assessment of the removal of the intake/discharge tunnels that currently exist within the TUOP parcel as well as any soil and/or groundwater remediation efforts associated with tunnel removal.

The Proposed Project elements considered in this technical report that may potentially impact water quality and hydrology include both construction elements and operational elements:

Construction Elements

- Dry Dock Installation
  - Dredging and dredged material disposal
    - Potential pumping of dredged sediment (in slurry form) into mitigation sites
  - Dry dock associated in-water construction activities
    - Installation of an underwater sheet pile wall and cantilevered king piles
    - Demolition and installation of mooring dolphins and access ramps
    - Assembly and deployment of the new dry dock
  - Dry dock associated land-side construction activities
    - Installation of electrical and mechanical utilities needed to service the new dry dock
    - Ramp wharf construction
    - Potential hazardous material spills
- Demolition/removal and backfill of the intake/discharge tunnels on the existing TUOP parcel and shoreline revetment
- Demolition of remaining offshore structure

Operational Elements

- Dry dock operations
  - Ship loading and unloading (especially the intake and discharge of ballast waters
  - Ship repair and maintenance activities
  - Long-term maintenance needs (i.e., cleaning/wash-down, repairs, and painting)
- Operations associated with the TUOP parcel after removal/demolition of the intake/discharge tunnels

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Mitigation measures identified to reduce any impacts found to be potentially significant in this water quality and hydrology analysis are described in Section 6.0.

5.1 Dry Dock Installation

This section describes potential impacts to water quality due to the Proposed Project during construction and installation of the new dry dock.

5.1.1 Dredging and Dredged Material Disposal

Potential environmental impacts associated with dredging and dredged material disposal are described in this section. Two dredged material disposal options are being considered for the Proposed Project: (1) unconfined aquatic disposal, and (2) upland disposal in a landfill.

To date, none of the sediment tested as part of the dry dock sump dredged material characterization study has been deemed unsuitable for unconfined aquatic disposal (i.e., requiring upland disposal); however, a final regulatory suitability for unconfined aquatic disposal (SUAD) determination is pending. As mentioned above, a portion of the dredge footprint has not yet been evaluated for unconfined aquatic disposal. It is possible that some of the sediment in the dredge footprint may require upland disposal. Consequently, the potential impacts associated with both aquatic and upland disposal are evaluated below.

Dredging – Aquatic Disposal
As discussed in Section 4.2 (Project Site Sediment Quality), a sediment characterization study was conducted in accordance with federal testing guidelines to determine the physical characteristics and chemical levels in the sediments within the Proposed Project dredge footprint. Specifically, the sediment was evaluated to determine its suitability for unconfined aquatic disposal in accordance with the National Dredging Policy, the Ocean Dumping Law, and the CWA.

The sediment testing results show that the dry dock footprint dredged material is substantially free of chemical contamination, toxicity, and bioaccumulation potential. The test results are currently being evaluated by the USACE and USEPA to determine whether they meet the Ocean Dumping Law and CWA Section 404 criteria for unconfined aquatic disposal. A SUAD determination by the USACE and USEPA would indicate that the Proposed Project dredged material would not pose a threat to the environment due to elevated contaminant levels at either the dredging site or the selected disposal site.

The SUAD determination made at this time will apply only to the unconsolidated surface sediments within the dredge footprint west of the San Diego Shipyard Sediment Remediation Project cleanup area as well as all the clean native materials deeper in the dredge footprint that span the Proposed Project footprint. As previously discussed, the San Diego Shipyard Sediment Remediation Project sediment removal will be completed prior to implementation of the Proposed Project. Any remaining sediments following remedial activities will need to undergo further analyses.

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Potential Impacts:

Because the Proposed Project dredged materials have been shown to be substantially free of chemical contaminants and toxicity, the primary impact associated with dredging and dredged material disposal of the materials is sediment resuspension. Dredging and disposal activities could cause sediments to enter the water column, which may cause increased turbidity. Increased turbidity (suspended and settleable solids) is deleterious, or harmful, to benthic organisms and may cause the formation of anaerobic conditions, which can clog fish gills and interfere with respiration in aquatic fauna. It also can screen out light, hindering photosynthesis and normal aquatic plant growth and development (SDRWQCB, 1994). Dredging activities that could cause resuspension of sediments include:

- Over filling of the dredge bucket during the sediment removal operations
- Debris preventing the dredge bucket from closing completely
- Barge repositioning (vessel propeller wash)
- Silt curtain placement
- Damage of silt curtain during dredging
- Spillage of sediment resulting from overloading the material barge
- Contact with sediment on or around the material barge during loading
- Cable snap of loading bucket during loading procedures
- Shear pin breakage, allowing the bucket to open prematurely during loading procedures
- Material barge or tugboat collision with another vessel
- Dredge slurry movement offsite of disposal area if the option chosen is in-bay beneficial reuse for eelgrass habitat

Although dredging, disposal, and construction (such as pile driving and sheet pile wall construction) could result in temporary increases in turbidity and suspended particulates at the dredging and disposal site, these water quality changes usually do not persist more than approximately 20 to 50 meters from the dredge site (Thackston and Palermo, 2000). Suspended particulates would increase turbidity and could reduce dissolved oxygen concentrations in the water column. These effects are expected to be localized and transient. The length of time it takes for the suspended material to settle, combined with the current direction and velocity, would determine the size and duration of the turbidity plume. Turbidity can be expected to dissipate in a period of 20 to 30 minutes, as was demonstrated at the Dredged Material Management Program Pilot Capping Project in Long Beach (USACE, 2002). Additionally, dredging would be conducted in accordance with applicable regulations to prevent impacts to water quality during Proposed Project dredging.

Resuspension of sediments within the Proposed Project area may also cause sediment re- deposition near the dredge and/or disposal areas or, depending on the environmental conditions and controls, cause sediment to be transported to other locations in the water body. Furthermore, resuspension of potentially contaminated sediments and release of constituents of

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concern from the areas of the Proposed Project that underlie the CAO area could impact water quality by decreasing dissolved oxygen, changing pH, increasing turbidity, and increasing contaminant levels to levels that are toxic to aquatic receptors. Changes in water quality could degrade and/or impair the beneficial uses in San Diego.

Spray disposal operations can be modified to target specific locations and avoid sensitive areas (Ray, 2007) and it has been reported that water from the liquid slurry tends to rapidly drain off, quickly leaving the deposited sediment without producing unusually high levels of turbidity (Cahoon and Cowan, 1987 and 1988). The Proposed Project dredged materials consist of a mixture of silt, sand, and clay. This sediment has a moderate potential for localized increases in turbidity should material move off this site; however, mitigation to reduce the potential for turbidity (such as silt curtains) will be implemented during all dredging and disposal options. Mitigation will also consider BMPs that will limit potential impacts on nearby sensitive resources. In addition, much of the sediment to be dredged within the Proposed Project area is at least partially lithified, making increases in localized turbidity less likely because the sediment particulates are naturally cemented together.

In addition to water quality impacts due to turbidity, there is potential for accidental fuel or oil spills during the proposed dredging operations to impair and/or degrade water quality in San Diego Bay. Such events are likely to be localized spills of lighter, refined diesel fuels, gasoline, and lubricating oils that are highly toxic to marine life. The potential for the occurrence of petroleum product leaks or spills is low, but the potential for significant impacts to marine resources is moderate to high should a spill occur.

Dredging – Upland Disposal

All of the sediment tested to date according federal guidelines and evaluated by the USACE and USEPA has been deemed suitable for unconfined aquatic disposal. As discussed in Section 4.2.1.5 (Dredged Material Study – Potential Additional Testing), however, a portion of the sediment within the project footprint still requires disposal suitability testing. This untested sediment is composed of any residual unconfined material that remains following completion of CAO cleanup dredging activities. As discussed in the Project Description under separate cover, it is assumed that a small portion of the project dredged material may require upland disposal. An upland disposal contingency factor of approximately 2,500 to 10,000 cubic yards (3,500 to 14,000 tons) of dredged material has been identified for purposes of this analysis.

Any sediment not approved for ocean disposal or beneficial reuse will be disposed of outside of the tidelands (upland) at an appropriately permitted landfill. Any sediment designated for upland disposal will be tested, waste classified, and approved by the landfill operator for landfill disposal. Should upland disposal become necessary, the proposed disposal site will be Otay Landfill located at 1700 Maxwell Road in Chula Vista, California. Alternative landfills may also be considered.

In the unlikely event that any portion of the dredged materials is classified as hazardous waste, those materials will require transport to a hazardous waste disposal facility (a Class I facility). None of the previous dredging projects conducted at BAE Systems that required landfill disposal (e.g., the San Diego Shipyard Sediment Remediation Project; the POSD Dry Dock Sump

Maintenance Dredging Project; Pier 4 Replacement Project dredging) uncovered any sediments that were classified as hazardous wastes. All sediments from these projects meet Otay Landfill's waste classification requirements to be disposed of as non-hazardous solid waste.

Upland disposal of dredge material will require dredging, processing onsite (i.e., dewatering and thickening), transfer to a truck, and transport to and disposal at the Otay Landfill. Assuming a carrying capacity of 23 tons per truckload, approximately 110 to 610 truckloads will be required for upland disposal of these dredged materials. The disposal process, including truck routes, will be conducted using the same transportation logistics used for recent landfill disposal projects conducted by BAE Systems.

It is estimated that, for the dredging operation to remove the 2,500 to 10,000 cy of sediment requiring upland disposal, dredging equipment will include the dredge crane barge, two dredge barges (scows), a large excavator for mixing cement (i.e., thickening) into the dredge material within the dredge scow and for offloading dredged material into trucks, pumps and hoses to capture supernatant water from the dump scow that can be transferred on-shore for disposal, and other miscellaneous equipment.

During upland disposal days (anticipated to be 17 days during the month), approximately 30 to 40 trucks per day will be required to haul off the treated dredged sediments. In addition, approximately 10 to 35 cement trucks will be required to dry all of the upland dredged material. The cement trucks will arrive on approximately 5 to 6 separate days during this period. Approximately 10 workers will be onsite each day that this dredging is being conducted.

The sediment will be sampled by the removal contractor for landfill profiling in accordance with the landfill's acceptance criteria. Sediment samples will be collected by the removal contractor from the containment barge. Once it is determined that the sediment has met the analytical and water content requirements of the disposal facility, the material will be certified for disposal (by the landfill operator), manifested, loaded into on-road trucks (typically using a large-wheeled front-end loader), weighed to document compliance with California Department of Transportation (Cal-DOT) regulations, transported, and deposited at the selected disposal facility.

Potential Impacts:

Potential water quality and hydrology impacts associated with the dredging and upland landfill disposal of dredged materials include:

- Resuspension of contaminated sediments during dredging activities (same as listed above under Dredging – Aquatic Disposal)
- Overfilling of the dump scow, causing sediment and supernatant water (i.e., water that rises to the surface in the dredge barge during loading operations) to overflow the sides
- Leaks in the supernatant water handling system, causing releases of contaminated water to the bay

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- Accidental spills of 1) the cement used as a thickening agent during on-scow treatment of the upland disposal sediments or 2) the resultant wet slurry mixture
- Spilling of upland disposal sediments during the transfer process from the dump scow
- Discharge of spilled materials back into the bay during storm events

Dredging Activities
The equipment (e.g., clamshell dredge and barge, dump scows, tender boats, cement trucks, and dump trucks) used during construction use fuels and oil that may be accidentally released to bay waters. The potential for petroleum product leaks or spills is low, but the potential for long-term impacts is moderate to high if a leak or spill occurs.

In-water construction for the Proposed Project may impact water quality by potentially changing surface water characteristics and current movements, as well as causing turbidity during activities such as pile driving for the sheet and king piles, and mooring dolphin demolition and replacement. In addition, possible storm events during construction may have impacts to water quality via runoff over new or exposed surfaces.

The project will require the handling and disposal of hazardous materials, including oils, gasoline, paints, solvents, concrete and asphalt products, and other potentially toxic materials, during construction activities. Use of these materials could contribute to polluted runoff leaving the project site. However, as previously discussed, the Proposed Project will be required to implement a USMP; therefore, the handling, storage, and disposal of hazardous materials will not increase runoff pollution into San Diego Bay.

Impacts to water quality due to turbidity and storm water associated with in-water construction activities are considered temporary.

Potential Impacts:

Potential impacts associated with dredging operations include:

- Accidental oil or fuel spills that could occur during the dredging operations and impair and/or degrade water quality in San Diego Bay
- Resuspension of contaminated bottom sediments

5.1.2 In-water Construction Activities

In addition to dredging-related activities associated with installation of the new dry dock, the Proposed Project will also include additional in-water construction activities. These include:

Sheet pile and king pile installation – To prevent undermining of the existing Pier 1, the Proposed Project will include an underwater wall and cantilevered king pile installation. These underwater improvements will allow for dredging adjacent to the pier without adversely impacting the strength and integrity of the pier.

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Access ramp installation – Two ramp wharfs (north and south) designed for accessing the dry dock are proposed adjacent o and westward of the bulkhead and will extend from approximately the current bulkhead line to 125 feet into San Diego Bay. The wharfs will be designed to support heavy vehicle and equipment loads and will consist of a reinforced concrete deck supported by precast concrete piles anchored along the shoreline.

Intermediary wharf structure - Material delivery staging area for the dry dock must be with reach of cranes. An intermediary wharf structure is planned for installation between the two access ramps. The intermediary wharf will be constructed in similar fashion as the ramps and abut the ramps to the north and south.

Mooring dolphin expansion and replacement – To accommodate the mooring of the proposed dry dock, one new and one retrofitted mooring dolphin are proposed to be constructed approximately 344 feet and 890 feet offshore (west) of the U.S. Bulkhead Line. The dolphins are necessary to provide a fixed mooring structure to secure the dry dock. Additionally, the current Pier 1N mooring dolphin would be expanded.

Dry dock assembly – Installation of a new floating dry dock approximately 205 feet in width and 851 feet in length (174,455 square feet total) plus aprons (approximately 16,165 square feet total) attached to the dry dock on each end is proposed. It is anticipated that most of the dry dock will be assembled offsite. However, there will likely be some additional dry dock assembly work once the dry dock has been towed to the shipyard.

Potential Impacts:

Potential environmental impacts that may result from these in-water construction activities include:

- Resuspension of sediments during pile removal and installation activities
- Routine use, transport, or disposal of potentially hazardous materials (e.g., fuels, oils, lubricants) by construction equipment
- Spills of fuels or oils during construction activities and refueling operations

5.1.3 Land-Side Construction Activities

A small portion of the construction activities associated with installation of the new dry dock will occur on land. Electrical and mechanical utilities to support the dry dock will need to be installed. These utilities will be similar to the types and capacities currently utilized within the existing shipyard. The proposed electrical utilities include a 12,000-volt, 500-amp feeder cable to the proposed new wharf; new load interrupt switches for the distribution of the 12,000-volt circuit; shore and pier 480-volt and 208/110-volt distribution systems, including 400-amp shore power mounds on the shore at two locations for barges and for ship repair operations; convenience receptacles on shore and on the pier and power to new infrastructure where needed (sewage lift station, storm water collection systems, etc.) and shore and pier lighting, including pole lights and embedded light fixtures in the wharf structure that will be located on the

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shore and wharf; and shore and wharf data, telephone, and television systems for use by vessels in dry dock.

The Proposed Project area is located in an industrialized area and the shoreline is currently covered in impervious surfaces such as concrete. Landside construction activities associated with the Proposed Project will have minimal effect on localized water quality; however, the discovery of contaminated soils and/or groundwater during trenching operations or storm water runoff related to land disturbance activities may result in a discharge of contaminated soil, groundwater, or storm water to the bay. The Proposed Project area is industrialized and the shoreline is currently covered in impervious surfaces. The Proposed Project will revise the layout of project site impervious surfaces by constructing the apron ramp wharf, but will not substantially alter storm water flows on the project site. Onsite storm water will be contained as described in BAE Systems BMP Manual (BAE Systems, 2013).

In addition, onshore construction activities may result in the accidental release of hazardous materials (e.g., oils and fuels) into bay waters.

Potential Impacts:

The potential impacts associated with utility installation include:

- Release of contaminated soils, groundwater, or storm water runoff during trenching operations
- Accidental spills of potentially hazardous materials (e.g., fuels, oils, lubricants) by construction equipment

5.2 Removal of Intake/Discharge Tunnels

The removal of the cooling tunnels would require the following activities:

- Soil and groundwater characterization
- Excavation of soil
- Soil dewatering
- Potential remediation of contaminated soils
- Disposal of the soils
- Installation of shoring to protect the excavation
- Demolition and removal of tunnels (concrete)
- Backfill of the tunnel area with clean structural fill beginning from the historic mean high tide line
- Replacement of numerous structures, equipment, and operating systems located over the tunnels
- Shoreline revetment

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- Removal of remaining off-shore structure

Based on the findings of the draft Phase I ESA, there is a moderate to high probability that hazardous materials or wastes are present at the site (Ninyo & Moore, 2014). Any soil or groundwater generated may result in a short-term increase of hazardous waste disposal. If hazardous materials or wastes are encountered during construction activities (e.g., contaminated soil and groundwater), there is low likelihood that the disturbance would create a significant hazard to the public or the environment. The unlikely exposure routes include direct contact, leeching into groundwater, or release into the San Diego Bay.

In addition, the cooling tunnels currently have discharge to the San Diego Bay that would likely be removed to (at least) the mean high tide line. This change would mean there is no longer a connection to San Diego Bay.

As outlined in the geotechnical report under separate cover, construction dewatering will need to occur to enable removal of the cooling tunnels followed by backfilling (TerraCosta, 2014). Using a shoring system such as sheet piling or secant piling may be generally effective at reducing groundwater infiltration into the excavation, but infiltration cannot be eliminated. As such, dewatering pumps will be required to further remove groundwater from the excavation. Depending upon the volume of water produced, and the water quality, water may possibly be treated and discharged accordingly, or may have to be hauled to an appropriate facility. Dewatering volumes, means and methods, water treatment, and the need for appropriate permits, should be assessed during the project level or design phase assessment of the cooling tunnel removal project.

As with the land-side construction activities, the shoreline will remain covered in impervious surfaces (similar to current conditions); therefore, future conditions on the project site will not significantly alter water quality with regard to storm water flow or drainage patterns. In addition, a sheet-pile wall will be installed in two segments (one 5 foot section and one 15 foot section) along the shoreline in support of the Shipyard Sediment CAO. This sheet-pile wall will help prevent contaminated sediment release into San Diego Bay during tunnel removal and will seal the mouth to the tunnels during construction and replacements of revetment. Installation of this wall will facilitate the removal and regrading of the existing slope to allow for the proposed sump. A new rock covered slope extending from the top of the submerged sheet-pile wall to the level landward parcel will also be installed. In addition, drainage patterns will not be significantly altered because all stormwater will be captured similar to current landside conditions. Construction level details regarding proposed removal of the cooling tunnels shall be addressed during the design stage for that project and/or during the preparation of the project level EIR for that phase.

Potential Impacts:

Similar to the dredging and construction activities listed above, impacts to San Diego Bay water quality could be observed during demolition and removal of the cooling tunnels. The potential impacts include:

- Release of potentially contaminated soils, groundwater, and/or debris from the tunnel demolition into San Diego Bay waters via surface runoff or tunnel excavation and removal activities
- Contamination of groundwater resources
- Potential accidental release of hazardous materials (e.g., oils and fuels) during tunnel removal construction activities

5.3 New Dry Dock Operations

Operational activities currently conducted at the BAE Systems facility include non-nuclear ship repair, modernization, conversion, and overhaul for government and commercial customers. Operations in the new dry dock will be similar to existing operational conditions at the current Pier 1N wet berth, but with the addition of the new dry dock. The new dry dock will be used to conduct repair and maintenance activity that cannot normally be conducted while the vessel is afloat. In a typical year, it is anticipated that two DDG-class vessels, one LPD-class vessel, one CG-class vessel, and one LCS-class vessel will utilize the dry dock.

Operational activities in the new dry dock (ship loading and unloading, ship repair and maintenance activities, and long-term dry dock maintenance needs) will be similar to existing activities for the POSD dry dock currently in use at the facility. Adding the second dry dock will create no new conditions at the site that could result in significant impairment to water quality. Operations for the new dry dock will be subject to the same and/or similar permit and operational requirements and conditions. Dry dock operational activities are conducted in accordance with the following permits and procedures:

- BAE Systems San Diego Ship Repair Industrial User Discharge Permit (No. 11-0217) issued by the City of San Diego Public Utilities Department Industrial Wastewater Control Program
- National Pollution Discharge Elimination [NPDES] Permit No. CA0109151 (Order No. R9-2009-0080 modified by No. R9-2010-0090) – Waste Discharge Requirements, BAE Systems San Diego Ship Repair, Inc., Discharge to San Diego Bay[9]
- Best Management Practices (BMP) Program Manual SOPs for shipyard activities (including dry dock operations) at BAE Systems San Diego Ship Repair (BAE 2013). The BMP Program Manual contains two major objectives:
  - Identify and evaluate potential pollutant sources and pathways associated with ship modification, repair, and maintenance; and

[9] A new or modified NPDES permit will need to be written to include the new Pier 1 North Dry Dock. The current NPDES permit covers discharge from numerous locations at BAE Systems including dry dock ballast water from the POSD dry dock, fire protection water, potable water leaks from hoses, steam condensate leaks from hoses, and water weight test bag effluent. Contact storm water is generally not discharged to San Diego Bay, but may be treated on-site and then discharged to a municipal treatment plant for disposal. However, discharges of storm water may occur at the Facility to the San Diego Bay when the on-site holding capacity is exceeded or the storm water collection and treatment system is not operating properly.

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- Identify and implement site-specific BMPs to reduce or prevent the discharge of wastes and pollutants to waters of the state, and, more specifically, San Diego Bay.

BAE Systems has the following SOPs in place to mitigate the potential impacts of shipyard operations on water quality. These SOPs provide specific details with regard to regulations and permits, responsibilities (of BAE employees as well as subcontractors), procedures, and recordkeeping/documentation for various shipyard activities and systems that may affect water quality:

- BAE Systems San Diego Ship Repair (SDSR) Procedure 1210-02M (Revised 3/5/14) – Industrial Wastewater Discharge: The purpose of Procedure 1210-02M is to establish SOPs for discharge and record keeping of industrial wastewater discharges to the BAE SDSR sewer system.
- BAE Systems SDSR Procedure 1210-03K (Revised 9/12/13) – Dry Dock Submergence Cleaning: This procedure establishes requirements and coordinates activities of BAE Systems SDSR work groups and subcontractors to ensure that dry dock washdown is conducted in a manner that is both efficient and protective of natural resources.
- BAE Systems SDSR Procedure 1210-04K (Revised 6/6/14) – Oil-Water Separator Operation: The purpose of Procedure 1210-04K is to describe acceptable methods of operation, maintenance, and BMPs for Oil-Water Separators used at BAE Systems SDSR for treatment of bilge, ballast, and other oily wastewater sources.
- BAE Systems SDSR Procedure 1220-02J (Revised 1/6/14) – Abrasive Blasting and Spay Painting Containment Procedures: This procedure establishes operational controls and BMPs to ensure that hydroblasting, pressure washing, abrasive blasting, and spray painting operations are conducted in a manner that is protective of the environment.
- BAE Systems SDSR Procedure 1230-02L (Revised 5/5/14) – Hazardous Wastes Manifest: This SOP establishes standard practices for manifesting hazardous waste.
- BAE Systems SDSR Procedure 1230-03C (Revised 7/31/14) – Disposal of Oil from Vessels: This procedure establishes requirements and coordinates activities of BAE Systems SDSR work and subcontractors to ensure that oil removed from vessels is disposed of appropriately, including supporting documentation.
- BAE Systems SDSR Procedure 1230-04C (Revised 1/27/14) – Scrap Metal Recycling Procedures: This SOP defines the procedures for the segregation, handling, and recycling of scrap metal to ensure that no heavy metals are introduced into the environment.

Specific activities related to dry dock operation and water quality control measures are described below.

Loading and Unloading Vessels

Ships are docked by lowering (submerging) and then raising the dry dock by means of integral ballast tanks, which take in and discharge seawater. Once the dry dock is lowered, a vessel is

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positioned within the dock. The dry dock is then raised, and the ship is lifted out of the water. Prior to submergence, the dry dock will be cleaned and free of any hazardous material wastes (spent abrasives, paint, petroleum products, sanitary waste, and general refuse and debris) associated with ship repair or maintenance activities taking place within the dry dock. All wastewater from the wash-down process is captured and held at the facility prior to discharge into the City of San Diego Metropolitan Sanitary Sewer System for disposal to a publically owned treatment works (POTW) in accordance with the requirements of Industrial User Discharge Permit (No. 11-0217).

Ship Repair and Maintenance in the Dry Dock

Ship repair and maintenance includes exterior hull repair, preservation (abrasive blasting and/or hydroblasting and painting), shaft repair, propeller and rudder repair, and repair/replacement of valves and fittings below the waterline. Wastes generated during ship repair in dry dock may include spent abrasives, paint, rust, petroleum products, marine growth, and general refuse, all of which are contained and then transferred to shore facilities for disposal.

Environmental protection related to dry dock operations includes complete encapsulation of the vessel to prevent fugitive particulate emissions, storm water collection, and actions to ensure zero discharge of industrial wastewater. In addition, hazardous waste will not be stored on the dry dock for extended periods, the dry dock will be monitored regularly for cleanliness, and other housekeeping procedures will be performed (i.e., waste removal, regular meetings and training sessions, and spill kit supplies checks). Any ship repair activity that presents a spill potential shall be controlled with structural control measures such as curtains, tarps, and shrink-wrap approved and periodically inspected by Environmental Services personnel.

Long-term Dry Dock Maintenance

The dry dock requires long-term maintenance, including repairs and painting, that is similar to the ship repair and maintenance currently being performed. All ship repair and maintenance activities should be considered as pertaining to the dry dock itself when evaluating impact significance.

Storm Water Discharges

The new dry dock will be designed to capture all storm water runoff and waste water, and to monitor flows in a manner similar to the method currently used at the POSD dry dock at BAE Systems (i.e., via a similar NPDES monitoring program). For the current NPDES program, ballast water, miscellaneous waste water, and surface runoff are captured and maintained in a robust drainage system with several levels of engineering controls to ensure that all runoff at the shipyard is captured, except in the case of a catastrophic event. Storm water collected at BAE Systems is held in a storm water diversion system (SWDS) and subsequently discharged to the POTW in accordance with BAE Systems' Industrial User Discharge Permit or trucked waste permit.

The SWDS includes a series of drains, piping, and tanks that collect storm water from areas of industrial activity, including the hazardous waste storage area, solid waste reclamation area, POSD (dry dock) wharf, Piers 1 through 4, the POSD dry dock, and outdoor storage and manufacturing areas. When the amount of rainfall exceeds the storage or treatment throughput

capacity of the SWDS, at any one of the shipyard's six drain outfalls into San Diego Bay may be opened to release the excess runoff to prevent catastrophic flooding of the shipyard.

The current capacity of the SWDS is approximately 500,000 gallons, or just over 1 inch of rainfall. Currently, the first 0.25 inch of rainfall may be discharged directly to the sanitary sewer during a rain event. The remaining storm water must be held for 24 hours prior to discharge to the sanitary sewer.

Discharge into surface waters should not occur during dry dock operations and all storm water from the dry dock will be contained and held before discharging into the storm sewer system (BAE Systems, 2013). If discharge from the dry dock must occur, it will be regulated in accordance with an NPDES permit similar to that currently outlined for the POSD Dry Dock.

Potential Impacts:

Potential water quality impacts associated with the operations of the new dry dock include:

- Release of contaminants to surface waters when the dry dock is submerged for loading and unloading of vessels
- Spills of fuels, oils, lubricants, or other liquids or powers during ship repair activities
- Release of contaminants to San Diego Bay waters during routine dry dock repair and maintenance activities
- Release of contaminated water associated with the dry dock's ballast water system
- Release of contaminated water associated with the wet weather runoff

5.4 Cumulative Impacts

This section explains and evaluates potential significant cumulative impacts resulting from the Proposed Project. A cumulative impact is defined in Section 15355 of the CEQA Guidelines as "two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts."

5.4.1 Cumulative Impact Analysis

Cumulative water quality impacts result from projects that combine to either pollute the quality or increase the turbidity of water. Cumulative hydrology impacts result from projects that combine to alter the course of surface water flow or to increase flood hazards in a particular area, either through diverting floodways or constructing structures within the floodways.

San Diego Bay is currently a CWA Section 303(d)-listed impaired water body for PCBs, and the shoreline of San Diego Bay between Sampson Street and 28th Street is listed as an impaired water body for PCBs, PAHs, zinc, mercury, and copper. This listing is, in itself, a cumulative impact, as past projects occurring for decades throughout the watershed have contributed pollutants to San Diego Bay.

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However, similar to the Proposed Project, each cumulative project is subject to CWA and NPDES compliance, as well as state and local regulatory standards and ordinances that must be achieved or complied with during construction and operation to reduce or avoid polluted runoff. These regulations are designed to prevent impacts on water quality throughout the District and at a regional level. Accordingly, adherence to regulatory standards would reduce cumulatively significant impacts on water quality to reduce impacts to less than significant levels.

Additionally, as stated previously, the Proposed Project will not result in cumulative hydrology impacts with respect to flooding or surface water flows. Therefore, the Proposed Project, in conjunction with past, present, and reasonably foreseeable future projects, is not anticipated to result in a cumulative impact to water quality or turbidity.

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6.0 MITIGATION MEASURES

This section presents mitigation measures that correspond to Project impacts described in Section 5.0.

The potential water quality and hydrology impacts associated with the Proposed Project are reduced to levels less than significant with mitigation incorporated. The Proposed Project will be subject to implementation of BMPs and to oversight by regulatory permitting agencies, including the SDRWQCB, the USACE, and the USEPA. Therefore, the Proposed Project will not result in significant water quality or hydrology impacts with compliance and with the mitigation measures described in this section.

6.1 Dredging Activities

Mitigation measures associated with dredging are described below.

6.1.1 Mitigation Measure 1: Dredging Management Plan

Prior to commencement of dredging operations, the contractor shall prepare a dredging management plan (DMP) for review and approval by the District and SDRWQCB. The DMP shall contain SOPs that are developed for the Proposed Project prior to initiation of dredging and are implemented for the duration of the dredging activity. The DMP will include the following measures to prevent release of hazardous materials that could affect water quality during dredging activities:

1. Personnel involved with dredging and handling of the dredged material will be given training on their specific task areas, which will be identified in the Health and Safety Plan (HASP). The training shall be approved by the District and carried out by BAE Systems per Occupational Safety and Health Administration (OSHA) requirements. The training materials include:
   - Potential hazards resulting from accidental oil and/or fuel spills;
   - Potential impacts to water quality associated with turbidity; and
   - Proper operation of dredging equipment.
2. Required instrumentation to avoid spillage of dredged material will be identified for each piece of equipment used during dredging operations.
3. Personnel will be required to visually monitor for oil or fuel spills during construction activities.
4. In the event that a sheen or spill is observed, the equipment will be immediately shut down and the source of the spill identified and contained. Additionally, the spill will be reported to the applicable agencies presented in the DMP.

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5. All personnel associated with dredging activities will be trained as to where to find oil/fuel spill kits, how to deploy the oil-absorbent pads, and how to dispose of the materials properly. The dredging barge shall have a sufficient quantity of oil/fuel spill kits onboard to allow for quick and timely spill containment.
6. Barge load limits and loading procedures will be identified, and the appropriate draft level will be marked on the materials barge hull.
7. Water discharges (supernatant water from sediment and storm water) to San Diego Bay are prohibited.

During dredging, the District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis; and (2) periodic site inspections.

Specific mitigation measures in the DMP related to dredging will include the following:

1. The contractor will remove dredge material and will not stockpile material on the San Diego Bay floor, and will not sweep or level the bottom surface with the digging bucket.
2. The contractor will not overfill the digging bucket because overfill results in material overflowing back into the water.
3. When dredging sediments that have been deemed unsuitable for unconfined aquatic disposal by the USACE/USEPA, the contractor will deploy and maintain inner- and outer-boundary floating silt curtains fully around the dredging area at all times. Double silt curtains will be utilized for containment of the dredge area; silt curtain configurations, technologies, and actual locations in relation to the dredge barge will be finalized during the design phase of the project.
4. The contractor will not overfill the material barge to a point where overflow or spillage could occur. Each material barge will be clearly marked to allow the operator to visually identify the maximum load point.
5. If the contractor proposes to use weirs as a means to dewater the scow during dredging approved for unconfined aquatic disposal, the use of silt curtains shall be deployed to minimize turbidity. Decanting of dredge scow return water during dredging of material determined to be unsuitable for unconfirned aquatic disposal is prohibited.
6. The contractor will place material in the material barge to minimize splashing or sloshing that could send sediment back into the water. Splashing can be controlled by restricting the drop height from the bucket.
7. If the use of a grate to collect debris is required, the contractor will not allow material to pile up on the grate and flow or slip from the grate back into the water. The debris scalper will be positioned to be totally contained on the shore side of the unloading operations.

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8. The dredge operator will visually monitor for debris build-up and alert the support personnel on the barge to assist in clearing the debris, as necessary. Debris that is derived from dredging activities will be removed from the grate by the dredge clamshell bucket and placed in a contained area on the dredge barge or in a second material barge for subsequent removal and disposal.
9. The contractor will restrict barge movement and work boat speeds (i.e., reducing propeller wash) in the dredge area.

6.1.2 Mitigation Measure 2: Contingency Plan

The contractor shall prepare and submit to the District for approval a Contingency Plan prior to initiation of dredging and will implement it for the duration of the dredging activity; the plan will address equipment and operational failures that could occur during dredging operations. The Contingency Plan will include the following measures to prevent a release of dredged materials into the marine environment in the event of equipment failure, repair, or silt curtain breach:

1. Procedures for communication to project personnel;
2. Installation of proper signage and/or barriers alerting others of potentially unsafe conditions;
3. Specification for repair work to be conducted on land and not over water;
4. Identification of proper spill containment equipment (e.g., spill kit);
5. Identification of other equipment or subcontracting options;
6. Emergency procedures to follow in the event of equipment failure or release;
7. Incident reporting and review procedure to evaluate the causes of an accidental release and steps to avoid further incidents;
8. Response procedures in the event of barge overfill; and
9. Procedures for prompt notification of the District and all other regulatory agencies.

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.1.3 Mitigation Measure 3: Dredge and Disposal Site Water Quality Monitoring

The District and the SDRWQCB shall coordinate water quality monitoring efforts and share water quality monitoring data with other dredging projects in San Diego Bay throughout the duration of the project. Considerations for the issuance of dredge permits or General Waste Discharge Requirements shall include distance(s) between sites and proposed timing of in-water activities that shall involve potential impacts to water quality, selection of appropriate water quality reference sampling locations in San Diego Bay, and coordination of expected commercial and recreational vessel traffic.

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The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the Port on a twice-monthly basis, and (2) periodic site inspections, as needed.

In addition, if in-bay beneficial reuse is chosen as a disposal option to support eelgrass mitigation and habitat enhancement, water quality monitoring will be implemented according to the mitigation requirements outlined in the EIR and CWA 401 water quality certification requirements. Proper BMPs will be utilized during all phases of the Proposed Project. BMPs may include 1) periodic inspection for leaks in the slurried sediment pipeline (if used) by the contractor to place the material at the disposal site; 2) appropriate turbidity control BMPs such as silt curtains to protect nearby sensitive resources, and 3) visual monitoring by the contractor for excessive turbidity near the transport pipeline or containment barge and associated sediment placement apparatus. If a substantial leak is identified in the slurry pipeline, a silt curtain or similar mitigation measure shall be employed to capture and retain the source of the leak and the affected pipeline segment shall be immediately repaired or replaced.

Visual monitoring of sediment movement and turbidity levels shall be performed by the contractor during and after sediment placement. Movement of sediment on the site shall be adaptively managed until adequately compacted to ensure that movement of sediment off the site is minimized.

6.1.4 Mitigation Measure 4: Storm Water Impacts

The Proposed Project will be required to prepare a construction SWPPP as well as an operation SWPPP (USEPA, 2009). The SWPPP will:

- Identify potential sources of storm water pollution at the facility;
- Describe storm water control measures that are used to reduce or eliminate pollutants in storm water discharges from the industrial facility; and
- Identify procedures the operator will use to comply with the terms and conditions of the most recent state general industrial storm water permit.

In addition, the SWPPP will identify the facility's storm water pollution prevention team and responsibilities and develop procedures for conducting required inspection/monitoring activities and regular maintenance of control measures.

6.1.5 Mitigation Measure 5: Supernatant and Storm Water Containment

This mitigation measure only applies in the event that a portion of the dredged material is deemed unsuitable for unconfined aquatic disposal (i.e., upland disposal becomes necessary). The contractor shall ensure that the supernatant and storm water collected from the scow are transported to landside containers. These containers are to be sealed when not in use to avoid overflow during a storm event. Storm water management in the project footprint during all phases of the project will be in compliance with the Statewide General Construction Permit and

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District requirements. Secondary containment features will be in place around the scows (silt curtains) and holding tanks (berms).

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.1.6 Mitigation Measure 6: Sediment Unloading

This mitigation measure only applies in the event that a portion of the dredged material is deemed unsuitable for unconfined aquatic disposal (i.e., upland disposal becomes necessary). If upland disposal of sediment is required, the contractor shall reduce water column impacts by controlling the swing radius of the unloading equipment. A spillage plate will be used to prevent the offloaded sediments from falling into the water beneath the swing radius of the unloading equipment at the offload location, which will limit spillage from removal of the wet sediment slurry falling directly into the water. All equipment used to move sediments from the scow to the trucks as well as the trucks used to transport sediments to the landfill will be properly cleaned and any waste water will be properly contained and disposed.

The contractor shall use a power wash unit to reduce impacts related to spillage from the excavator arm onto transport vehicles. In the event that sediment is spilled onto the transport vehicle, it can be quickly washed and the water directed into the collection sump. The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.1.7 Mitigation Measure 7: Overfilling Transport Vehicles, Increasing Potential to Spill onto the Roadway

If dredging of sediment deemed to be unsuitable for unconfined aquatic disposal is necessary, the contractor shall ensure that truck volumes are limited to prevent spillage and will be based on visual observations, and that trucks will be covered and secured per Cal-DOT regulations during transport to the disposal facility. The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.1.8 Mitigation Measure 8: Operator Error Spilling Sediment during Loading

If dredging of sediment deemed to be unsuitable for unconfined aquatic disposal is necessary, the contractor shall ensure that trucks are loaded within a constructed loading zone to confine sediment spilled during the loading process. Prior to entering the roadway, the vehicles will be power washed to prevent cross-contamination onto the roadways. This will ensure that no contaminants are released and potentially re-introduced into the aquatic environment via runoff. The District will verify implementation of this measure through (1) review of a mitigation

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implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.2 Construction Activities

Mitigation measures associated with construction activities are described below.

6.2.1 Mitigation Measure 9: Preconstruction Meeting

The BAE Systems Environmental Manager or designee will ensure that the contractor shall hold a preconstruction meeting to review all construction mitigation requirements for impacts to water quality and the environmentally sensitive areas with the construction crew. Pertinent sections of the DMP related to protection of water quality or the environment will also be presented at this meeting (see Mitigation Measure 1). The District shall be invited to send a representative to the preconstruction meeting. The purpose of the meeting will be to review the relevant project features, regulatory requirements, and mitigation measures to ensure implementation, and to review mitigation monitoring tracking program and log requirements.

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the Port on a twice-monthly basis, and (2) periodic site inspections, as needed.

6.2.2 Mitigation Measure 10: Health and Safety Plan for Land-side Construction Activities

Although no significant ground disturbance is anticipated with the Proposed Project component evaluated for this technical report, this mitigation measure is included to ensure that appropriate precautions are taken should contaminated groundwater or soils be encountered during any trenching activities. Implementation of this project feature requires compliance with safety measures required by OSHA and will adequately address potential impacts related to contaminated groundwater or soils, should any be encountered during limited landside construction activities:

During all excavation and trenching activities for utilities, BAE Systems shall require that all construction subcontractors address site safety requirements by complying with the appropriate health and safety measures required by the OSHA-applicable specifications in regard to earth resources (Section 29 Code of Federal Regulations [CFR] Part 1926), which are focused on worker safety in excavations. In the event that suspicious odors are detected in soil, construction shall be terminated until the soil is properly characterized for hazardous waste content. Appropriate measures shall be taken in compliance with all applicable regulations for the characterization and disposal of hazardous materials.

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

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6.2.3 Mitigation Measure 11: Soil Management Plan

Prior to commencing any on-shore construction activities, a Soil Management Plan will be prepared that describes the procedures to be implemented in the event that contaminated soils are discovered during installation of utilities, seawalls, and other landside features. The plan will describe contaminants that may be encountered during ground disturbance activities, sample collection and analytical techniques that will be employed to screen contaminant in the soils, segregation and handling of contaminated soils, and procedures for the proper transportation and disposal of any identifies wastes. Appropriate measures shall be taken in compliance with all applicable regulations for the characterization and disposal of hazardous materials. In addition, BMPs such as silt curtains (if applicable), land-side containment/covering or engineering controls to prevent runoff, excess water capture and proper disposal, and visual monitoring will be used to prevent release and impact to water quality at the Proposed Project site.

The District will verify implementation of this measure through (1) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis, and (2) periodic site inspections.

6.2.4 Mitigation Measure 12: Secondary Containment

Prior to the commencement of dredging, demolition, or construction activity, the contractor shall install a secondary containment structure for the storage of all fuel, oil, and other petroleum products, as required by the USMP (District, 2010), the BAE BMP Manual (BAE Systems, 2013), and current or updated BAE Systems Environmental SOPs. At all times during construction and operation of the Proposed Project, the contractor shall house all oil and fuel in a secondary containment structure to ensure that spilled or leaked oil or fuel will be prevented from entering the water column. The District will verify implementation of this measure through (1) periodic site inspections to verify that a secondary containment structure is in place and functioning, and (2) review of a mitigation implementation and monitoring tracking log maintained by BAE Systems and submitted to the District on a twice-monthly basis.

6.2.5 Mitigation Measure 13: Environmental Controls During Intake/Discharge Tunnel Removal

According to the Intake/Discharge Tunnel Phase I ESA prepared by Ninyo & Moore, subsurface disturbance activities (e.g. soil excavation) should include the preparation and implementation of a Soil and Groundwater Management Plan. The plan would address the possibility of encountering areas of potential environmental concern as well as control measures in place to mitigate potential environmental and human health impacts (Ninyo & Moore, 2014). The plan should be prepared by a qualified environmental consultant and should be implemented during subsurface disturbance activities by the contractor under the oversight of an environmental professional on behalf of the project proponent. The plan should address soil and groundwater monitoring, handling, stockpiling, characterization, reuse, export, and disposal protocols. The objective of the plan is to assist the contractor in the excavation, notification, monitoring,

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segregation, characterization, handling, and reuse and/or disposal (as appropriate) of waste that may be encountered during earthwork activities.

The project-specific Soil and Groundwater Management Plan shall follow the guidelines and procedures prescribed by the County of San Diego Department of Environmental Health (DEH) Site Assessment and Mitigation Program. Specific components of the plan would follow the guidance outlined in the current Site Assessment and Mitigation (SAM) Manual. Prior to excavation of site soils, preparation of a Corrective Action Plan (CAP) may be required if there is evidence that surface water or groundwater has been or may be affected by the unauthorized release, or there is evidence that contaminated soils are or could come in contact with surface water or groundwater. A CAP includes the following four basic elements:

1. Assessment of impacts
2. Determination of applicable cleanup levels
3. Feasibility study and corrective action work plan
4. Plan to monitor and report the effectiveness of the corrective action

If contaminated soils are encountered during the tunnel removal process, they will need to be evaluated for off-site disposal. Contaminated soils are assumed to require disposal at a Class I landfill. The nearest Class I landfill to the project site is Clean Harbors Buttonwillow LLC facility located in Buttonwillow, California. Documentation of proper disposal of the soil (bill of lading, weigh tickets, manifests, etc.) must be submitted to DEH.

In addition, measures should be taken to prevent any potentially contaminated soil or water from entering the San Diego Bay during the tunnel removal and associated construction. To ensure that no contaminants from the tunnels or the construction area enter San Diego Bay, appropriate BMPs should be put in place. BMPs may include a silt curtain or other containment device used during tunnel removal or construction to prevent any activities from impacting bay waters outside the immediate area. Any water generated during construction should be captured prior to release into the storm sewer system.

In addition, tunnel removal activities would need to comply with various regulations, including (but not limited to):

- Requirements of the statewide National Pollutant Discharge Elimination System (NPDES) Construction General Permit.
- SWRCB Statewide General Waste Discharge Requirements (WDRs) for discharges to land with a low threat to water quality (Order No. 2003–0003-DWQ).
- Requirements set forth in the *General Waste Discharge Requirements for Discharges from Temporary Groundwater Extraction and Similar Waste Discharges to San Diego Bay, Tributaries Thereto under Tidal Influence, and Storm Drains or Other Conveyance Systems Tributary Thereto Order No. R9-2007-0034 (NPDES No. CAG919001)*.

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- San Diego Municipal Storm Water Permit (Order No. R9-2013-0001, NPDES No. CAS0109266).
- Requirements outlined in the SUSMP to prepare an Urban Storm Water Mitigation Plan (USMP). The USMP would include BMPs to reduce pollutants of concern and BMP maintenance provisions in an Operations and Maintenance Plan. The proposed project would also be required to comply with the Storm Water Management and Discharge Control Ordinance adopted by the District which sets forth requirements for dischargers and places of discharge to protect and enhance water quality

In accordance with the Construction General Permit, the Municipal Permit, and the Storm Water Management and Discharge Control Ordinance, prior to construction appropriate BMPs would be identified and implemented pursuant to a project-specific Stormwater Pollution Prevention Plan (SWPPP). Temporary or short-term BMPs identified in the Jurisdictional Urban Runoff Management Plan (JRMP) that could be included in the project SWPPP include the following:

- Concrete waste management
- Desilting basin
- Erosion control mats and spray-on applications
- Fiber roll
- Gravel bag berm
- Material delivery and storage
- Paving and grading operations
- Sandbag barrier
- Silt fence
- Solid waste management
- Spill prevention and control
- Stabilized construction entrance/exit
- Stockpile management
- Storm drain inlet protection
- Street sweeping and vacuuming
- Vehicle and equipment maintenance
- Water conservation practices

6.3 Dry Dock Operations

Mitigation measures associated with dry dock operations are described below.

6.3.1 Mitigation Measure 14: Update Permits, BMP Manual, and SOPs

Operations of the new dry dock (ship loading and unloading, ship repair and maintenance activities, and long-term dry dock maintenance needs) would be similar to existing operational activities for the POSD dry dock currently in use at the BAE Systems facility. Adding the second dry dock would not create new conditions at the facility that could result in impairments to water quality. Operations for the new dry dock would be subject to the operational requirements that are the same as or similar to those of the existing dry dock.

As soon as practical, BAE Systems will update and modify the permits and operational BMPs and SOPs that mitigate the impacts to water quality during the normal operations and maintenance of the new dry dock.

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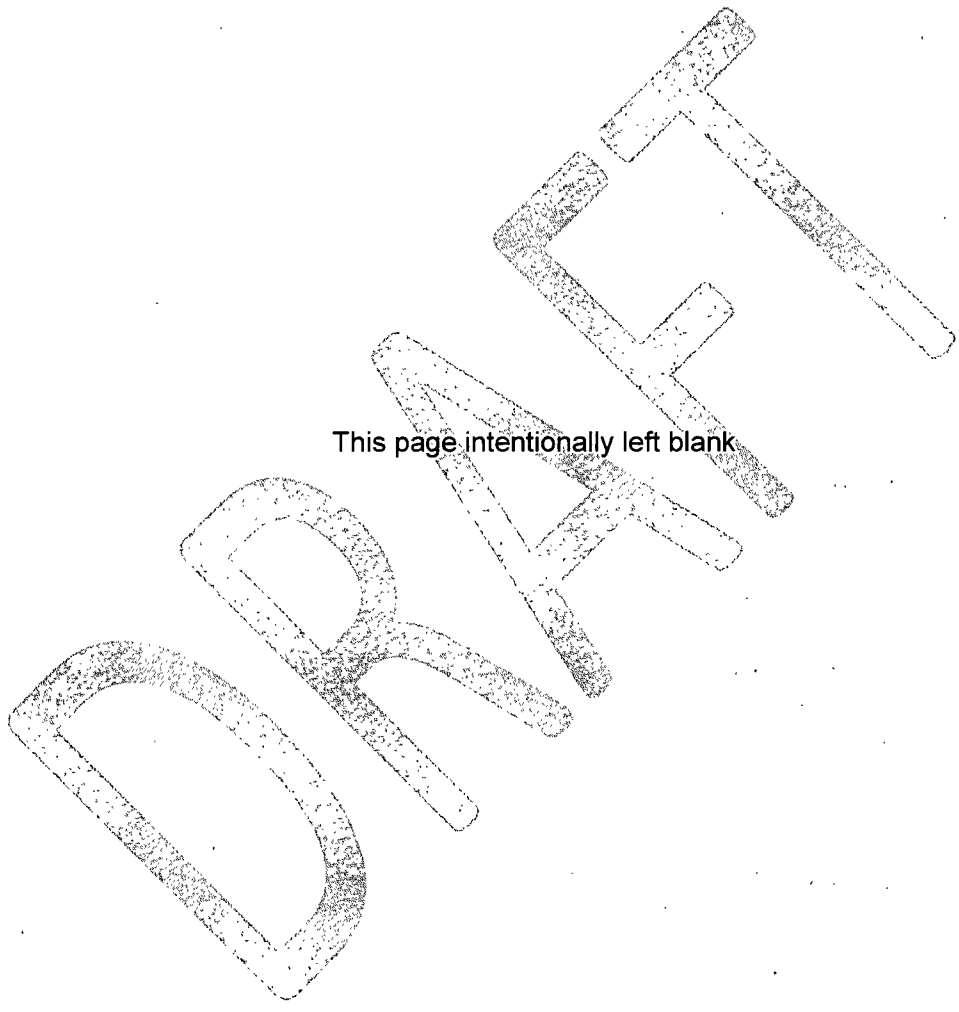

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APPENDIX F

NOISE IMPACT ANALYSIS

NOISE IMPACT ANALYSIS

PIER 1 NORTH DRY DOCK

CITY OF SAN DIEGO, CALIFORNIA

Tung-Chen Chung, Ph.D., INCE Bd. Cert.

LSA

March 2015

NOISE IMPACT ANALYSIS

PIER 1 NORTH DRY DOCK, ASSOCIATED REAL ESTATE AGREEMENTS, AND COOLING TUNNELS REMOVAL PROJECT

CITY OF SAN DIEGO, CALIFORNIA

Submitted to:

San Diego Unified Port District
3165 Pacific Highway
San Diego, California 92101

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Project No. PTO1402

LSA

March 2015

SUMMARY OF FINDINGS

This noise impact analysis has been prepared to evaluate the potential noise impacts and mitigation measures associated with the proposed Pier 1 North Dry Dock Project (project) in the City of San Diego (City), California.

BAE Systems proposes to site a new drydock on the north side of its Pier 1 and extend the existing lease term based on its investments in the leasehold. Additionally, BAE Systems proposes to enter into a real estate agreement with the San Diego Unified Port District (District) on the neighboring two-acre land parcel and four-acre water area that is currently leased by a Tidelands Use and Occupancy Permit (TUOP). The TUOP tideland parcel contains two existing intake/discharge tunnels that would be removed either during the new dry dock construction or during a later phase of the project. Potential remediation efforts associated with the removal of the intake/discharge tunnels would be identified and disclosed. The primary existing noise sources in the project area are port operations, including shipyard repair activities, within the District and traffic noise along Harbor Drive and other local streets in the project vicinity.

Construction activities will comply with the hours set by the City's Municipal Code. Construction noise levels measured at or beyond the property lines of any property zoned residential shall not exceed an average sound level greater than 75 decibels (dB) during the 12-hour period from 7:00 a.m. to 7:00 p.m. In addition, construction activity is prohibited between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays as specified in Section 21.04 of the San Diego Municipal Code, with the exception of Columbus Day and Washington's Birthday, or on Sundays, that would create disturbing, excessive, or offensive noise unless a permit has been applied for and granted beforehand by the Noise Abatement and Control Administrator, in conformance with San Diego Municipal Code Section 59.5.0404.

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INTRODUCTION

This report is intended to satisfy the San Diego Unified Port District's (District's) requirement for the Pier 1 North Dry Dock Project (project) and evaluate the effectiveness of mitigation measures incorporated as part of the project designs.

PROJECT DESCRIPTION

The proposed project involves construction of a new drydock (dry berth) on the north side of Pier 1 at the BAE Systems facility. The drydock would support the current and future planned home-porting of United States Naval ships in the harbor and allow greater flexibility in the utilization of dry-docking facilities. The proposed drydock would replace an existing wet berth used for ship repair and maintenance with a dry berth. BAE Systems also proposes to enter into a future, long-term real estate agreement with the District on the neighboring 2-acre land parcel and 4-acre water area that is currently leased by BAE Systems under a Tidelands Use and Occupancy Permit (TUOP). The TUOP parcel (formerly known as the SDG&E parcel) contains two existing underground intake/discharge ("cooling") tunnels that could be removed during project construction or at a later date. For purposes of this noise impact study, removal of the cooling tunnels has been assumed to occur during project construction.

Please refer to a full Project Description under separate cover for more information (provided as Appendix A). Figure 1 illustrates the project location. BAE Systems will schedule approximately 93 new employees at the Pier 1 North (1N) project site for work shifts that begin and end outside of the a.m. peak-hour and p.m. peak-hour periods (7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.). Based on discussion with BAE Systems, 20 percent of employees currently utilize alternative means of transportation such as bus or train and/or carpool. Therefore, it is anticipated that 20 percent of the 93 new employees will also utilize transit or carpool. The remaining 80 percent will drive themselves to and from the project site. Therefore, 93 employees would generate approximately 149 average daily trips (ADT) and 0 peak-hour trips. Figure 2 shows the project's preliminary site plan.



LSA

LEGEND

Project Limits

FIGURE 1

0 1000 2000

FEET

SOURCE: Bing Maps (2012); BAE Systems (6/2014)

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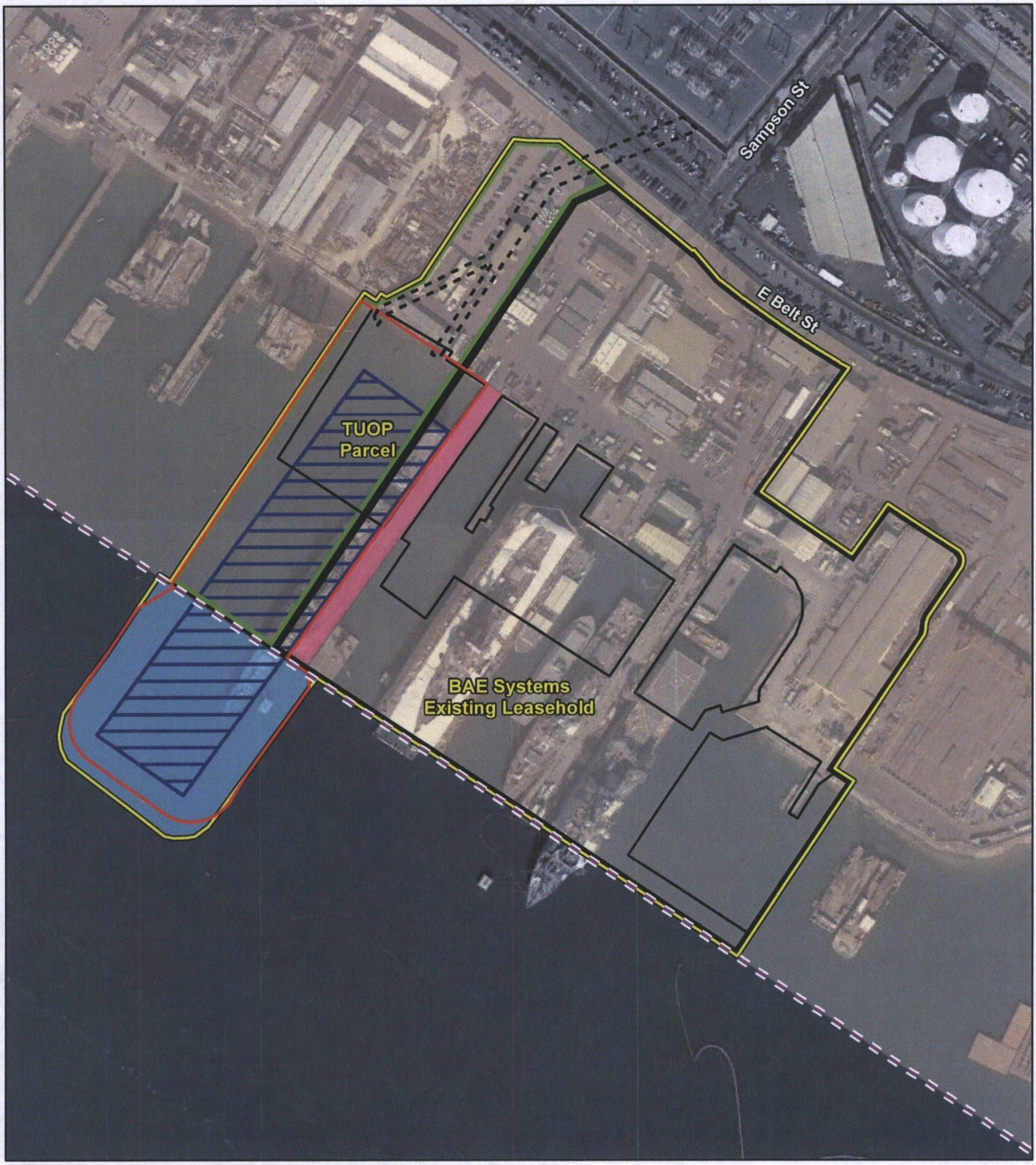
Pier 1 North Drydock Project

Project Location Map



LSA

FIGURE 2

LEGEND

- U.S. Pierhead Line
- Project Limits
- California State Lands Commission Jurisdiction
- Port Jurisdiction
- Existing Cooling Tunnels
- Remedial Footprint

Project Features

- Existing Pier 1
- Proposed Floating Dry Dock
- Dredge Area
- BAE Systems Existing Leasehold
- TUOP Parcel

N

0 137.5 275
FEET

SOURCE: Google Earth (2013); BAE Systems (9/2014)

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Pier 1 North Drydock Project

Preliminary Site Plan

METHODOLOGY RELATED TO NOISE IMPACT ASSESSMENT

Evaluation of noise impacts associated with the proposed project includes the following:

- Determination of the noise impacts associated with short-term construction of the proposed project on adjacent noise-sensitive uses;
- Determination of the long-term mobile and stationary source noise impacts on noise-sensitive uses adjacent to the site; and
- Determination of the required mitigation measures to reduce short-term and long-term noise impacts.

This noise impact analysis utilizes the City's noise standards, including the City's Progress Guide and General Plan (which are summarized in Significance Determination Thresholds California Environmental Quality Act, City of San Diego Development Services Department Land Development Review Division Environmental Analysis Section, April 2004) and San Diego Municipal Code Chapter 5 Article 9.5: Noise Abatement and Control, as thresholds against which potential noise impacts are evaluated.

CHARACTERISTICS OF SOUND

Sound is increasing in the environment and can affect quality of life. Noise is usually defined as unwanted sound. Noise consists of any sound that may produce physiological or psychological damage and/or interfere with communication, work, rest, recreation, and sleep.

To the human ear, sound has two significant characteristics: pitch and loudness. Pitch is generally an annoyance, while loudness can affect the ability to hear. Pitch is the number of complete vibrations, or cycles per second, of a wave, resulting in the tone's range from high to low. Loudness is the strength of a sound and describes a noisy or quiet environment; it is measured by the amplitude of the sound wave. Loudness is determined by the intensity of the sound waves, combined with the reception characteristics of the human ear. Sound intensity refers to how hard the sound wave strikes an object, which in turn produces the sound's effect. This characteristic of sound can be precisely measured with instruments. The analysis of a project defines the noise environment of the project area in terms of sound intensity and its effect on adjacent sensitive land uses.

MEASUREMENT OF SOUND

Sound intensity is measured through the A-weighted scale to correct for the relative frequency response of the human ear. That is, an A-weighted noise level de-emphasizes low and very high frequencies of sound similar to the human ear's de-emphasis of these frequencies. Unlike linear units, such as inches or pounds, decibels are measured on a logarithmic scale representing points on a sharply rising curve.

For example, 10 decibels (dB) are 10 times more intense than 1 dB, 20 dB are 100 times more intense, and 30 dB are 1,000 times more intense. Thirty dB represent 1,000 times more acoustic energy than 1 dB. The decibel scale increases as the square of the change, representing the sound pressure energy. A sound as soft as human breathing is about 10 times greater than 0 dB. The decibel system of measuring sound gives a rough connection between the physical intensity of sound and its perceived loudness to the human ear. A 10 dB increase in sound level is perceived by the human ear as only a doubling of the loudness of the sound. Ambient sounds generally range from 30 (very quiet) to 100 A-weighted decibels (dBA) (very loud).

Sound levels are generated from a source, and their decibel level decreases as the distance from that source increases. Sound dissipates exponentially with distance from the noise source. For a single point source, sound levels decrease approximately 6 dB for each doubling of distance from the source. This drop-off rate is appropriate for noise generated by stationary equipment. If noise is produced by a line source, such as highway traffic or railroad operations, the sound decreases 3 dB for each doubling of distance in a hard site environment. Line source noise, when produced within a relatively flat environment with absorptive vegetation, decreases 4.5 dB for each doubling of distance.

There are many ways to rate noise for various time periods, but an appropriate rating of ambient noise affecting humans also accounts for the annoyance effects of sound. Equivalent continuous sound level (L_{eq}) is the total sound energy of time-varying noise over a sample period. However, the predominant rating scales for human communities in the State of California are the L_{eq} and Community Noise Equivalent Level (CNEL) or the day-night average level (L_{dn}) based on A-weighted decibels. CNEL is the time-varying noise over a 24-hour period, with a 5 dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours) and 10 dBA weighting factor applied to noise occurring from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours). L_{dn} is similar to the CNEL scale but without the adjustment for events occurring during the evening hours. CNEL and L_{dn} are within 1 dBA of each other and are normally exchangeable. The noise adjustments are added to the noise events occurring during the more sensitive hours.

Other noise rating scales of importance when assessing the annoyance factor include the maximum noise level (L_{max}), which is the highest exponential time-averaged sound level that occurs during a stated time period. The noise environments discussed in this analysis are specified in terms of maximum levels denoted by L_{max} for short-term noise impacts. L_{max} reflects peak operating conditions and addresses the annoyance aspects of intermittent noise.

Another noise scale often used together with the L_{max} in noise ordinances for enforcement purposes is noise standards in terms of percentile noise levels. For example, the L_{10} noise level represents the noise level exceeded 10 percent of the time during a stated period. The L_{50} noise level represents the median noise level. Half the time the noise level exceeds this level, and half the time it is less than this level. The L_{90} noise level represents the noise level exceeded 90 percent of the time and is considered the background noise level during a monitoring period. For a relatively constant noise source, the L_{eq} and L_{50} are approximately the same.

Noise impacts can be described in three categories. The first is audible impacts, which refers to increases in noise levels noticeable to humans. Audible increases in noise levels generally refer to a change of 3 dB or greater, since this level has been found to be barely perceptible in exterior

environments. The second category, potentially audible, refers to a change in the noise level between 1 and 3 dB. This range of noise levels has been found to be noticeable only in laboratory environments. The last category is changes in noise level of less than 1 dB, which are inaudible to the human ear. Only audible changes in existing ambient or background noise levels are considered potentially significant.

PHYSIOLOGICAL EFFECTS OF NOISE

Physical damage to human hearing begins at prolonged exposure to noise levels higher than 85 dBA. Exposure to high noise levels affects the entire system, with prolonged noise exposure in excess of 75 dBA increasing body tensions and thereby affecting blood pressure and functions of the heart and the nervous system. In comparison, extended periods of noise exposure above 90 dBA would result in permanent cell damage. When the noise level reaches 120 dBA, a tickling sensation occurs in the human ear even with short-term exposure. This level of noise is called the threshold of feeling. As the sound reaches 140 dBA, the tickling sensation is replaced by the feeling of pain in the ear. This is called the threshold of pain. A sound level of 160 to 165 dBA will result in dizziness or loss of equilibrium. The ambient or background noise problem is widespread and generally more concentrated in urban areas than in outlying, less developed areas.

Table A lists "Definitions of Acoustical Terms;" Table B shows "Common Sound Levels and Their Noise Sources;" and Table C shows "City of San Diego Noise Land Use Compatibility Chart."

VIBRATION

Vibration refers to groundborne noise and perceptible motion. Groundborne vibration is almost exclusively a concern inside buildings. It is rarely perceived as a problem outdoors where the motion may be discernible, but without the effects associated with the shaking of a building, there is less adverse reaction. Vibration energy propagates from a source through intervening soil and rock layers to the foundations of nearby buildings. The vibration then propagates from the foundation throughout the remainder of the structure. Building vibration may be perceived by occupants as the motion of building surfaces, the rattling of items on shelves or hanging on walls, or a low-frequency rumbling noise. The rumbling noise is caused by the vibrating walls, floors, and ceilings that are radiating sound waves. Annoyance from vibration often occurs when the vibration exceeds the threshold of perception by 10 dB or less. This is an order of magnitude below the damage threshold for normal buildings.

Typical sources of groundborne vibration are construction activities (e.g., blasting, pile driving, and operating heavy-duty earthmoving equipment), steel-wheeled trains, and occasional traffic on rough roads. Problems with groundborne vibration and noise from these sources are usually localized to areas within approximately 100 feet (ft) from the vibration source, although there are examples of groundborne vibration causing interference out to distances greater than 200 ft (Federal Transit Administration [FTA] 2006). When roadways are smooth, vibration from traffic, even heavy trucks, is rarely perceptible. It is assumed for most projects that the roadway surface will be smooth enough that groundborne vibration from street traffic will not exceed the impact criteria; however, both construction of the project and the freight train operations could result in groundborne vibration that

Table A: Definitions of Acoustical Terms

Term	Definition
Decibel, dB	A unit of level that denotes the ratio between two quantities that are proportional to power; the number of decibels is 10 times the logarithm (to the base 10) of this ratio.
Frequency, Hz	Of a function periodic in time, the number of times that the quantity repeats itself in one second (i.e., number of cycles per second).
A-Weighted Sound Level, dBA	The sound level obtained by use of A-weighting. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise. All sound levels in this report are A-weighted, unless reported otherwise.
L_{02}, L_{08}, L_{50}, L_{90}	The fast A-weighted noise levels that are equaled or exceeded by a fluctuating sound level 2 percent, 8 percent, 50 percent, and 90 percent of a stated time period, respectively.
Equivalent Continuous Noise Level, L_{eq}	The level of a steady sound that, in a stated time period and at a stated location, has the same A-weighted sound energy as the time-varying sound.
Community Noise Equivalent Level, CNEL	The 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 5 decibels to sound levels occurring in the evening from 7:00 p.m. to 10:00 p.m. and after the addition of 10 decibels to sound levels occurring in the night between 10:00 p.m. and 7:00 a.m.
Day/Night Noise Level, L_{dn}	The 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 10 decibels to sound levels occurring in the night between 10:00 p.m. and 7:00 a.m.
L_{max}, L_{min}	The maximum and minimum A-weighted sound levels measured on a sound level meter, during a designated time interval, using fast time averaging.
Ambient Noise Level	The all-encompassing noise associated with a given environment at a specified time, usually a composite of sound from many sources at many directions, near and far; no particular sound is dominant.
Intrusive	The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, and time of occurrence and tonal or informational content as well as the prevailing ambient noise level.

Source: Handbook of Acoustical Measurement and Noise Control (1991).

Table B: Common Sound Levels and Their Noise Sources

Noise Source	A-Weighted Sound Level in Decibels	Noise Environments	Subjective Evaluations
Near Jet Engine	140	Deafening	128 times as loud
Civil Defense Siren	130	Threshold of Pain	64 times as loud
Hard Rock Band	120	Threshold of Feeling	32 times as loud
Accelerating Motorcycle at a Few Feet Away	110	Very Loud	16 times as loud
Pile Driver; Noisy Urban Street/ Heavy City Traffic	100	Very Loud	8 times as loud
Ambulance Siren; Food Blender	95	Very Loud	
Garbage Disposal	90	Very Loud	4 times as loud
Freight Cars; Living Room Music	85	Loud	
Pneumatic Drill; Vacuum Cleaner	80	Loud	2 times as loud
Busy Restaurant	75	Moderately Loud	
Near Freeway Auto Traffic	70	Moderately Loud	Reference Level
Average Office	60	Quiet	½ as loud
Suburban Street	55	Quiet	
Light Traffic; Soft Radio Music in Apartment	50	Quiet	¼ as loud
Large Transformer	45	Quiet	
Average Residence without Stereo Playing	40	Faint	⅛ as loud
Soft Whisper	30	Faint	
Rustling Leaves	20	Very Faint	
Human Breathing	10	Very Faint	Threshold of Hearing
	0	Very Faint	

Source: Compiled by LSA Associates, Inc. (2004).

Table C: City of San Diego Noise Land Use Compatibility Chart

	Land Use	Annual Community Noise Equivalent Levels In Decibels					
		50	55	60	65	70	75
1	Outdoor amphitheaters						
2	Schools, libraries						
3	Nature Preserves, wildlife preserves						
4	Residential single-family, multi-family, mobile homes, transient housing						
5	Retirement homes, intermediate care facilities, convalescent homes						
6	Hospitals						
7	Parks, playgrounds						
8	Office buildings, business and professional						
9	Auditoriums, concert halls, indoor arenas, churches						
10	Riding stables, water recreation facilities						
11	Outdoor spectator sports, golf courses						
12	Livestock farming, animal breeding						
13	Commercial-retail, shopping centers, restaurants, movie theaters						
14	Commercial-wholesale, industrial manufacturing, utilities						
15	Agriculture (except livestock), extractive industry, farming						
16	Cemeteries						

Source: City of San Diego CEQA Significance Determination Thresholds (January 2007).

could be perceptible and annoying. Groundborne noise is not likely to be a problem because noise arriving via the normal airborne path usually will be greater than groundborne noise.

Groundborne vibration has the potential to disturb people as well as damage buildings. Although it is very rare for train-induced groundborne vibration to cause even cosmetic building damage, it is not uncommon for construction processes such as blasting and pile driving to cause vibration of sufficient amplitudes to damage nearby buildings (FTA 2006). Groundborne vibration is usually measured in terms of vibration velocity, either the root-mean-square (RMS) velocity or the peak particle velocity (PPV). RMS is best for characterizing human response to building vibration and PPV is used to characterize the potential for damage. Decibel notation acts to compress the ranges of numbers required to describe vibration. Vibration velocity level in decibels is defined as:

$$L_v = 20 \log_{10} [V/V_{ref}]$$

where L_v is the velocity in decibels (VdB), "V" is the RMS velocity amplitude, and "V_{ref}" is the reference velocity amplitude, or 1×10^{-6} inches/second used in the United States.

Factors that influence groundborne vibration and noise include the following:

- **Vibration Source:** Vehicle suspension, wheel types and condition, railroad track/roadway surface, railroad track support system, speed, transit structure, and depth of vibration source.
- **Vibration Path:** Soil type, rock layers, soil layering, depth to water table, and frost depth.
- **Vibration Receiver:** Foundation type, building construction, and acoustical absorption.

Among the factors listed above, there are significant differences in the vibration characteristics when the source is underground compared to at the ground surface. In addition, soil conditions are known to have a strong influence on the levels of groundborne vibration. Among the most important factors are the stiffness and internal damping of the soil and the depth to bedrock.

Experience with groundborne vibration indicates that (1) vibration propagation is more efficient in stiff clay soils than in loose sandy soils, and (2) shallow rock seems to concentrate the vibration energy close to the surface and can result in groundborne vibration problems at large distances from a railroad track. Factors such as layering of the soil and depth to water table can have significant effects on the propagation of groundborne vibration. Soft, loose, sandy soils tend to attenuate more vibration energy than hard, rocky materials. Vibration propagation through groundwater is more efficient than through sandy soils.

SETTING

EXISTING SENSITIVE LAND USES IN THE PROJECT AREA

Sensitive receptors include residences, schools, hospitals, and similar uses that are sensitive to noise. There are existing residences located to the northwest of the project site, along Main Street and South Evans Street, that are approximately 1,000 ft from the project boundary. Existing residences to the northeast along South 26th Street and Boston Avenue are approximately 1,200 ft from the project site. Existing residences to the north along Sicard Street and Newton Avenue are approximately 1,000 ft from the project site. Cesar Chavez Park is located approximately 1,800 ft to the northwest of the project site. A college, Woodbury School of Architecture, is located approximately 1,600 ft to the north of the project site. These sensitive land uses are separated from the project site by existing intervening buildings and structures.

EXISTING NOISE ENVIRONMENT IN THE PROJECT AREA

The primary existing noise sources in the project area are port activities, including shipyard repair activities, and other transportation facilities (e.g., existing roadways). Noise associated with port operations occurs intermittently. Traffic on Harbor Drive, Sampson Street, Sicard Street, and other local streets in the project vicinity is the steady source of ambient noise. The existing ADT volumes for roadway segments in the project vicinity are obtained from the *Traffic Impact Study* (LSA Associates, Inc. [LSA], March 2015) prepared for this project.

The Federal Highway Administration (FHWA) *Highway Traffic Noise Prediction Model* (FHWA RD-77-108) was used to evaluate highway traffic-related noise conditions in the vicinity of the project site. This model requires various parameters including traffic volumes, vehicle mix, vehicle speed, and roadway geometry to compute typical equivalent noise levels during daytime, evening, and nighttime hours. The resultant noise levels are weighted and summed over 24-hour periods to determine the CNEL values. Table D provides the existing traffic noise levels adjacent to roadway segments in the project vicinity. These noise levels represent worst-case scenarios, which assume that no shielding is provided between the traffic and the location where the noise contours are drawn. The specific assumptions used in developing these noise levels and the model printouts are provided in Appendix A. Traffic noise is generally moderate along all existing street segments in the project vicinity, with the 70 dBA CNEL noise contour confined within the roadway rights-of-way.

Table D: Existing Traffic Noise Levels

Roadway Segment	ADT	Centerline to 70 CNEL (ft)	Centerline to 65 CNEL (ft)	Centerline to 60 CNEL (ft)	CNEL (dBA) 50 Ft from Centerline of Outermost Lane
Logan Avenue from I-5 southbound Off-Ramp to Cesar Chavez	6,500	< 50	< 50	100	62.7
Cesar Chavez Parkway from Kearney Avenue to Logan Avenue	14,500	< 50	80	169	66.2
Cesar Chavez Parkway from Logan Avenue to Harbor Drive	11,600	< 50	70	146	65.2
Kearney Avenue from Cesar Chavez Parkway to Sampson Street	500	< 50	< 50	< 50	49.6
Harbor Drive from Cesar Chavez Parkway to Sampson Street	8,500	< 50	58	119	63.8
Harbor Drive from Sampson Street to 28th Street	9,600	< 50	62	129	64.4
Sampson Street from 28th Street to Kearney Avenue	3,200	< 50	< 50	< 50	57.6
Sampson Street from Kearney Avenue to Harbor Drive	2,700	< 50	< 50	< 50	56.9
28th Street from SR-94 eastbound Ramps to Sampson Street	7,000	< 50	< 50	66	61.0
28th Street from National Avenue to Boston Avenue	13,900	< 50	78	165	66.0
28th Street from Boston Avenue to Harbor Drive	15,300	< 50	83	176	66.4
National Avenue from 28th Street to I-5 northbound Ramps	14,600	< 50	80	170	66.7
Boston Avenue from 28th Street to I-5 southbound On-Ramp	8,100	< 50	< 50	72	61.7

Source: LSA Associates, Inc. (March 2015).
Note: Traffic noise within 50 ft of the roadway centerline should be evaluated with site-specific information.
ADT = average daily trips
CNEL = community noise equivalent level
dBA = A=weighted decibel(s)
ft = feet/foot
I-5 = Interstate 5
SR-94 = State Route 94

THRESHOLDS OF SIGNIFICANCE

A project will normally have a significant noise-related effect on the environment if it substantially increases the ambient noise levels in adjoining areas or conflicts with adopted environmental plans and goals of the community in which it is located. The project site is governed by the San Diego Unified Port District. However, neither the Port Master Plan nor the Port's Rules and Regulations provides any noise level restriction guidelines. Therefore, noise standards included in the City's Progress Guide and General Plan (which are summarized in Significance Determination Thresholds California Environmental Quality Act, City of San Diego Development Services Department Land Development Review Division Environmental Analysis Section, 2007) and San Diego Municipal Code, Chapter 5, Article 9.5: Noise Abatement and Control are used in this noise impact analysis. Although the project site is within the Barrio Logan Community Plan, it stated that "The General Plan provides sufficient policy direction for noise-related issues; therefore minimal additional policies have been provided specifically for Barrio Logan." Therefore, no specific noise policies or standards have been identified from the Barrio Logan Community Plan for the noise impact analysis for this project.

City of San Diego Progress Guide and General Plan, Significance Determination Thresholds California Environmental Quality Act

The City has adopted traffic noise significance thresholds for various land uses. Noise standards for the proposed project are as follows:

- Noise-sensitive uses such as public parks and multifamily residences are considered significantly affected by traffic noise in excess of 65 dBA CNEL in their required exterior usable space. For interior noise-sensitive space, the noise standard is 45 dBA CNEL per Title 24 of the California Code of Regulations.
- If a nonresidential use, such as a commercial, industrial, or school use, is proposed to abut an existing residential use, the decibel level at the property line should be the arithmetic mean of the decibel levels allowed for each use as set forth in Section 59.5.0401 of the Municipal Code. Although the noise level above could be consistent with the City's Noise Ordinance Standards, a noise level above 65 dBA CNEL at the residential property line could be considered a significant environmental impact. For an existing use, any expansion or repair/maintenance activity would be required to comply with this noise policy.
- Temporary construction noise that exceeds 75 dBA $L_{eq}(1)$ at a sensitive receptor would be considered significant. Construction noise levels measured at or beyond the property lines of any property zoned residential shall not exceed an average sound level greater than 75 dB during the 12-hour period from 7:00 a.m. to 7:00 p.m. In addition, construction activity is prohibited between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays as specified in Section 21.04 of the San Diego Municipal Code, with the exception of Columbus Day and Washington's Birthday, or on Sundays, that would create disturbing, excessive, or offensive noise unless a permit has been applied for and granted beforehand by the Noise Abatement and Control Administrator, in conformance with San Diego Municipal Code Section 59.5.0404.

City of San Diego Noise Abatement and Control Ordinance

The City of San Diego Municipal Code, Chapter 5, Article 9.5, Noise Abatement and Control, governs stationary sources and operational noise. The applicable sound level is a function of the time of day and land use zone. Sound levels are measured at the property line of the noise source. As stated in the City's Noise Abatement and Control ordinance:

> It shall be unlawful for any person to cause noise by any means to the extent that the one-hour average sound level exceeds the applicable limit given in the following table (see Table E), at any location in the City of San Diego on or beyond the boundaries of the property on which the noise is produced. The noise subject to these limits is that part of the total noise at the specified location that is due solely to the action of said person.

Table E: Applicable Noise Limits

Zone	Time	1-Hour Average Sound Level, $L_{eq}(1)$, dBA
Single-Family Residential	7:00 a.m.–7:00 p.m.	50
	7:00 p.m.–10:00 p.m.	45
	10:00 p.m.–7:00 a.m.	40
Multifamily Residential (up to a maximum density of 1/2000)	7:00 a.m.–7:00 p.m.	55
	7:00 p.m.–10:00 p.m.	50
	10:00 p.m.–7:00 a.m.	45
All other Residential	7:00 a.m.–7:00 p.m.	60
	7:00 p.m.–10:00 p.m.	55
	10:00 p.m.–7:00 a.m.	50
Commercial	7:00 a.m.–7:00 p.m.	65
	7:00 p.m.–10:00 p.m.	60
	10:00 p.m.–7:00 a.m.	60
Industrial or Agricultural	Anytime	75

Source: City of San Diego Municipal Code Noise Abatement and Control Ordinance.
dBA = A-weighted decibels
$L_{eq}(1)$ = equivalent continuous noise level over 1 hour

Table E summarizes the applicable hourly noise limits for various receiving land uses. For the proposed project, the multifamily dwellings are subject to the noise standards of 55 dBA $L_{eq}(1)$ from 7:00 a.m. to 7:00 p.m., 50 dBA $L_{eq}(1)$ from 7:00 p.m. to 10:00 p.m., and 45 dBA $L_{eq}(1)$ from 10:00 p.m. to 7:00 a.m. The commercial/retail uses are subject to the noise standards of 65 dBA $L_{eq}(1)$ from 7:00 a.m. to 7:00 p.m., 60 dBA $L_{eq}(1)$ from 7:00 p.m. to 10:00 p.m., and 60 dBA $L_{eq}(1)$ from 10:00 p.m. to 7:00 a.m.

The sound level limit at a location on a boundary between two zoning districts is the arithmetic mean of the respective limits for the two districts. For example, at the dividing line between a commercial property and an industrial use property, the noise standard would be (75 + 65 = 140, then 140/2 =) 70 dBA between the hours of 7:00 a.m. and 7:00 p.m.

California Building Code

Title 24 of the California Code of Regulations, also referred to as the California Building Code, requires that interior noise levels in multifamily residences caused by exterior sources not exceed 45 dBA CNEL. This is also considered a desirable noise exposure standard for single-family residences. Title 24 further specifies that if exterior noise levels exceed 60 dBA CNEL for multifamily residential uses, an acoustical analysis shall be required to demonstrate that the design would achieve the prescribed interior noise standard.

The noise level of 65 dBA CNEL is also the threshold where noise interferes noticeably with the ability to carry on a quiet conversation. Therefore, exterior noise exposure of 65 dBA CNEL is the most common noise/land use compatibility guideline for new residential construction in California.

Vibration Impact Criteria

The criteria for environmental impact from groundborne vibration and noise are based on the maximum levels for a single event. Hydroacoustic analysis pertaining to underwater vibration impacts are addressed separately in the Hydroacoustics Analysis prepared by TerraData (January 2015).

Federal Transit Administration and Federal Railroad Administration. Due to the lack of vibration standards developed for projects similar to the proposed project, vibration standards included in FTA's *Transit Noise and Vibration Impact Assessment* (FTA, May 2006) are used in this analysis for groundborne vibration impacts, as shown in Table F. The criteria presented in Table F account for variation in project types as well as the frequency of events, which differ widely among transit projects. Most experience is with the community response to groundborne vibration from rail rapid transit systems, with typical headways in the range of 3 to 10 minutes and each vibration event lasting less than 10 seconds. It is intuitive that when there will be fewer events per day, as is typical for commuter rail projects, it should take higher vibration levels to evoke the same community response. This is accounted for in the criteria by distinguishing between projects with frequent and infrequent events, where the term "frequent events" is defined as more than 70 vibration events from the same source per day. "Occasional events" is defined as between 30 and 70 vibration events from the same source per day. "Infrequent events" is defined as fewer than 30 vibration events of the same kind per day.

Table G illustrates the human response to various vibration levels, as described in the FTA *Transit Noise and Vibration Impact Assessment* (FTA, May 2006).

FTA guidelines show that a vibration level of up to 102 VdB (an equivalent to 0.5 inch/sec in RMS) (FTA, May 2006) is considered safe and would not result in any construction vibration damage. For a nonengineered timber and masonry building, the construction vibration damage criterion is 94 VdB (0.2 inch/sec in RMS). The RMS values for building damage thresholds referenced above are shown in Table H, taken from the *Transportation- and Construction-Induced Vibration Guidance Manual* (prepared by Jones & Stokes, for the California Department of Transportation [Caltrans], June 2004).

Table F: Groundborne Vibration (GBV) and Groundborne Noise (GBN) Impact Criteria for General Assessment

Land Use Category	GBV Impact Levels (VdB re 1 micro-inch/sec)			GBN Impact Levels (dB re 20 micro-Pascals)		
	Frequent[1] Events	Occasional[2] Events	Infrequent[3] Events	Frequent[1] Events	Occasional[2] Events	Infrequent[3] Events
Category 1: Buildings where low ambient vibration is essential for interior operations.	65 VdB[4]	65 VdB[4]	65 VdB[4]	N/A[4]	N/A[4]	N/A[4]
Category 2: Residences and buildings where people normally sleep.	72 VdB	75 VdB	80 VdB	35 dBA	38 dBA	43 dBA
Category 3: Institutional land uses with primarily daytime use.	75 VdB	78 VdB	83 VdB	40 dBA	43 dBA	48 dBA

Source: Federal Transit Administration (2006).

1 Frequent events are defined as more than 70 vibration events from the same source per day.

2 Occasional events are defined as between 30 and 70 vibration events from the same source per day.

3 Infrequent events are defined as fewer than 30 vibration events of the same kind per day.

4 This criterion limit is based on levels that are acceptable for most moderately sensitive equipment, such as optical microscopes. Vibration-sensitive manufacturing or research will require detailed evaluation to define the acceptable vibration levels. Ensuring lower vibration levels in a building often requires special design of the HVAC systems and stiffened floors.

5 Vibration-sensitive equipment is generally not sensitive to groundborne noise.

dB = decibels
dBA = A-weighted decibels
HVAC = heating, ventilation, and air conditioning
inch/sec = inches per second
VdB = vibration velocity decibels

Table G: Human Response to Different Levels of Groundborne Noise and Vibration

Vibration Velocity Level	Noise Level		Human Response
	Low Frequency[1]	Mid Frequency[2]	
65 VdB	25 dBA	40 dBA	Approximate threshold of perception for many humans. Low-frequency sound usually inaudible; mid-frequency sound excessive for quiet sleeping areas.
75 VdB	35 dBA	50 dBA	Approximate dividing line between barely perceptible and distinctly perceptible. Many people find transit vibration at this level unacceptable. Low-frequency noise acceptable for sleeping areas; mid-frequency noise annoying in most quiet occupied areas.
85 VdB	45 dBA	60 dBA	Vibration acceptable only if there are an infrequent number of events per day. Low-frequency noise unacceptable for sleeping areas; mid-frequency noise unacceptable even for infrequent events with institutional land uses such as schools and churches.

Source: Federal Transit Administration (2006).
[1] Approximate noise level when vibration spectrum peak is near 30 Hz.
[2] Approximate noise level when vibration spectrum peak is near 60 Hz.
dBA = A-weighted decibels
Hz = Hertz
VdB = vibration velocity decibels

Table H: Construction Vibration Damage Criteria

Building Category	PPV (inch/sec)	Approximate Lv[1]
Reinforced-concrete, steel or timber (no plaster)	0.5	102
Engineered concrete and masonry (no plaster)	0.3	98
Non-engineered timber and masonry buildings	0.2	94
Buildings extremely susceptible to vibration damage	0.12	90

Source: Transit Noise and Vibration Impact Assessment (May 2006).
[1] RMS velocity in decibels (VdB) re 1 micro-inch/second.
inch/sec = inches per second
L_V = vibration velocity level
PPV = peak particle velocity
RMS = root mean square

The criteria in Tables G and H are related to groundborne vibration causing human annoyance or interfering with the use of vibration-sensitive equipment. Table I lists the guideline vibration potential threshold criteria from the Caltrans *Transportation- and Construction-Induced Vibration Guidance Manual* (Caltrans, June 2004).

Table I: Guideline Vibration Potential Threshold Criteria

Structure and Condition	Maximum PPV (inch/sec)	
	Transient Sources[1]	Continuous/Frequent Intermittent Sources[2]
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.20	0.10
Historic and some old buildings	0.50	0.25
Older residential structures	0.50	0.30
New residential structures	1.00	0.50
Modern industrial/commercial buildings	2.00	0.50

Source: Caltrans *Transportation- and Construction-Induced Vibration Guidance Manual* (June 2004).

[1] Transient sources create a single, isolated vibration event, such as blasting or drop balls.

[2] Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seat equipment, vibratory pile drivers, and vibratory compaction equipment.

inch/sec = inches per second

PPV = peak particle velocity

PROJECT IMPACTS

CONSTRUCTION NOISE

Short-term noise impacts would be associated with dredging, pile driving, and installation of dry dock on site during construction of the proposed project. Construction-related, short-term noise levels would be higher than existing ambient noise levels in the project area, but would cease once construction activities have been completed.

Two types of short-term noise impacts could occur during the construction of the proposed project. First, construction crew commutes and the transport of construction equipment and materials to and from the site would incrementally increase noise levels on adjacent access roads. To analyze conservative, worst case construction conditions, the simultaneous construction of the Pier 1N Drydock (overlapping Phases I through VI) and the removal of the cooling tunnels (Phase III) have been assumed. As such, a total of approximately 89 workers and 58 trucks could be destined to the project site on the busiest day. Construction-related truck traffic to and from the site would occur along Harbor Drive south to I-5 or Civic Center Drive for in and outbound routes. Construction deliveries will be directed not to traverse the local Barrio Logan community neighborhoods. There will be a relatively high single-event noise exposure potential at a maximum level of 87 dBA L_{max} with trucks passing at 50 ft. As a rule of thumb, it takes doubling of the traffic volumes to increase the traffic noise by 3 dBA, which is the minimum human perceptible noise level increase. These worker trips would occur during the non-peak hours and would be dispersed throughout the road network. The projected construction traffic will not be more than the existing traffic volumes on street segments in the project vicinity. Table J lists the traffic noise levels under the existing with project construction traffic scenario. Table J shows that construction traffic would add at most 0.1 dBA to the traffic noise on roadways in the project vicinity. Therefore, short-term construction-related worker commutes and equipment transport noise impacts would not be significant.

The second type of short-term noise impact results from noise generated during dredging, pile driving, and construction of the proposed project features. Construction is performed in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on the site. Therefore, the noise levels vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table K lists maximum noise levels recommended for noise impact assessments for typical construction equipment based on a distance of 50 ft between the equipment and a noise receptor, taken from the FHWA *Roadway Construction Noise Model* (FHWA *Highway Construction Noise Handbook*, August 2006). Equipment noise levels collected in this document represent the latest information available for construction equipment that would be used. Typical maximum noise levels range up to 91 dBA L_{max} at 50 ft during the noisiest construction phases. The noisiest construction equipment is pile driving activity. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 or 4 minutes at lower power settings.

Table J: Existing Traffic Noise Levels With Project Construction Traffic

Roadway Segment	ADT	Center-line to 70 CNEL (ft)	Center-line to 65 CNEL (ft)	Center-line to 60 CNEL (ft)	CNEL (dBA) 50 Ft from Centerline of Outermost Lane	Increase CNEL (dBA) 50 Ft from Centerline of Outermost Lane
Logan Avenue from I-5 southbound Off-Ramp to Cesar Chavez	6,600	< 50	< 50	101	62.7	0.0
Cesar Chavez Parkway from Kearney Avenue to Logan Avenue	14,500	< 50	80	169	66.2	0.0
Cesar Chavez Parkway from Logan Avenue to Harbor Drive	11,800	< 50	71	148	65.3	0.1
Kearney Avenue from Cesar Chavez Parkway to Sampson Street	500	< 50	< 50	< 50	49.6	0.0
Harbor Drive from Cesar Chavez Parkway to Sampson Street	8,700	< 50	58	121	63.9	0.1
Harbor Drive from Sampson Street to 28th Street	9,800	< 50	63	131	64.5	0.1
Sampson Street from 28th Street to Kearney Avenue	3,200	< 50	< 50	< 50	57.6	0.0
Sampson Street from Kearney Avenue to Harbor Drive	2,700	< 50	< 50	< 50	56.9	0.0
28th Street from SR-94 eastbound Ramps to Sampson Street	7,000	< 50	< 50	66	61.0	0.0
28th Street from National Avenue to Boston Avenue	14,000	< 50	79	166	66.0	0.0
28th Street from Boston Avenue to Harbor Drive	15,300	< 50	83	176	66.4	0.0
National Avenue from 28th Street to I-5 northbound Ramps	14,700	< 50	80	171	66.7	0.0
Boston Avenue from 28th Street to I-5 southbound On-Ramp	8,200	< 50	< 50	73	61.7	0.0

Source: LSA Associates, Inc. (March 2015).
Note: Traffic noise within 50 ft of the roadway centerline should be evaluated with site-specific information.

ADT = average daily trips
CNEL = community noise equivalent level
dBA = A=weighted decibel(s)
ft = feet/foot
I-5 = Interstate 5
SR-94 = State Route 94

Table K: RCNM Default Noise Emission Reference Levels and Usage Factors

Equipment Description	Impact Device?	Acoustical Usage Factor	Spec. 721.560 L_{max} at 50 Ft (dBA, slow)	Actual Measured L_{max} at 50 Ft (dBA, slow)	Number of Actual Data Samples (Count)
All other Equipment > 5 HP	No	50	85	N/A	0
Auger Drill Rig	No	20	85	84	36
Backhoe	No	40	80	78	372
Bar Bender	No	20	80	N/A	0
Blasting	Yes	N/A	94	N/A	0
Boring Jack Power Unit	No	50	80	83	1
Chain Saw	No	20	85	84	46
Clam Shovel (dropping)	Yes	20	93	87	4
Compactor (ground)	No	20	80	83	57
Compressor (air)	No	40	80	78	18
Concrete Batch Plant	No	15	83	N/A	0
Concrete Mixer Truck	**No**	**40**	**85**	**79**	**40**
Concrete Pump Truck	**No**	**20**	**82**	**81**	**30**
Concrete Saw	No	20	90	90	55
Crane	**No**	**16**	**85**	**81**	**405**
Dozer	No	40	85	82	55
Drill Rig Truck	**No**	**20**	**84**	**79**	**22**
Drum Mixer	No	50	80	80	1
Dump Truck	No	40	84	76	31
Excavator	No	40	85	81	170
Flat Bed Truck	No	40	84	74	4
Front End Loader	No	40	80	79	96
Generator	No	50	82	81	19
Generator (< 25 kVA, VMS Signs)	No	50	70	73	74
Gradall	No	40	85	83	70
Grader	No	40	85	N/A	0
Grapple (on backhoe)	No	40	85	87	1
Horizontal Boring Hydraulic Jack	No	25	80	82	6
Hydra Break Ram	Yes	10	90	N/A	0
Impact Derive	Yes	20	95	101	11
Jackhammer	Yes	20	85	89	133
Man Lift	No	20	85	75	23
Mounted Impact Hammer (hoe ram)	**Yes**	**20**	**90**	**90**	**212**

Table K: RCNM Default Noise Emission Reference Levels and Usage Factors

Equipment Description	Impact Device?	Acoustical Usage Factor	Spec. 721.560 L_{max} at 50 Ft (dBA, slow)	Actual Measured L_{max} at 50 Ft (dBA, slow)	Number of Actual Data Samples (Count)
Pavement Scarifier	No	20	85	90	2
Paver	No	50	85	77	9
Pickup Truck	**No**	**40**	**55**	**75**	**1**
Pneumatic Tools	**No**	**50**	**85**	**85**	**90**
Pumps	No	50	77	81	17
Refrigerator Unit	No	100	82	73	3
Rivit Buster/Chipping Gun	Yes	20	85	79	19
Rock Drill	No	20	85	81	3
Roller	No	20	85	80	16
Sand Blasting (single nozzle)	No	20	85	96	9
Scraper	No	40	85	84	12
Sheers (on backhoe)	No	40	85	96	5
Slurry Plant	No	100	78	78	1
Slurry Trench Machine	No	50	82	80	75
Soil Mix Drill Rig	No	50	80	N/A	0
Tractor	No	40	84	N/A	0
Vacuum Excavator (Vac-Truck)	No	40	85	85	149
Vacuum Street Sweeper	No	10	80	82	19
Ventilation Fan	No	100	85	79	13
Vibrating Hopper	No	50	85	87	1
Vibratory Concrete Mixer	No	20	80	80	1
Vibratory Pile Driver	**No**	**20**	**95**	**101**	**44**
Warning Horn	No	5	85	83	12
Welder/Torch	No	40	73	74	5

Source: FHWA Highway Construction Noise Handbook (August 2006).
Equipment in **Bold** is expected to be used on the project site.
dBA = A-weighted decibels
ft = foot/feet
ft-lb/blow = foot-pounds per blow
L_{max} = maximum instantaneous noise level
N/A = Not Applicable
Spec. 721.560 L_{max} at 50 ft (dBA Slow)=The specification "Spec" limit for each piece of equipment expressed as an L_{max} level in dBA "slow" at a reference distance of 50 ft from the loudest side of equipment
Actual Measured L_{max} at 50 ft (dBA, slow)(Samples Averaged)=The measured "Actual" emission level at 50 ft for each piece of equipment based on hundreds of emission measurements performed on CA/T work sites

The following construction noise impact discussion focuses on the maximum noise-producing construction equipment that are likely to be used concurrently at a given time. If the removal of the cooling tunnels occurs at the same time, noise from on-site construction activity would not increase substantially due to the distance between these two construction areas. Construction traffic noise impacts on off-site areas were discussed in the discussion for Table J.

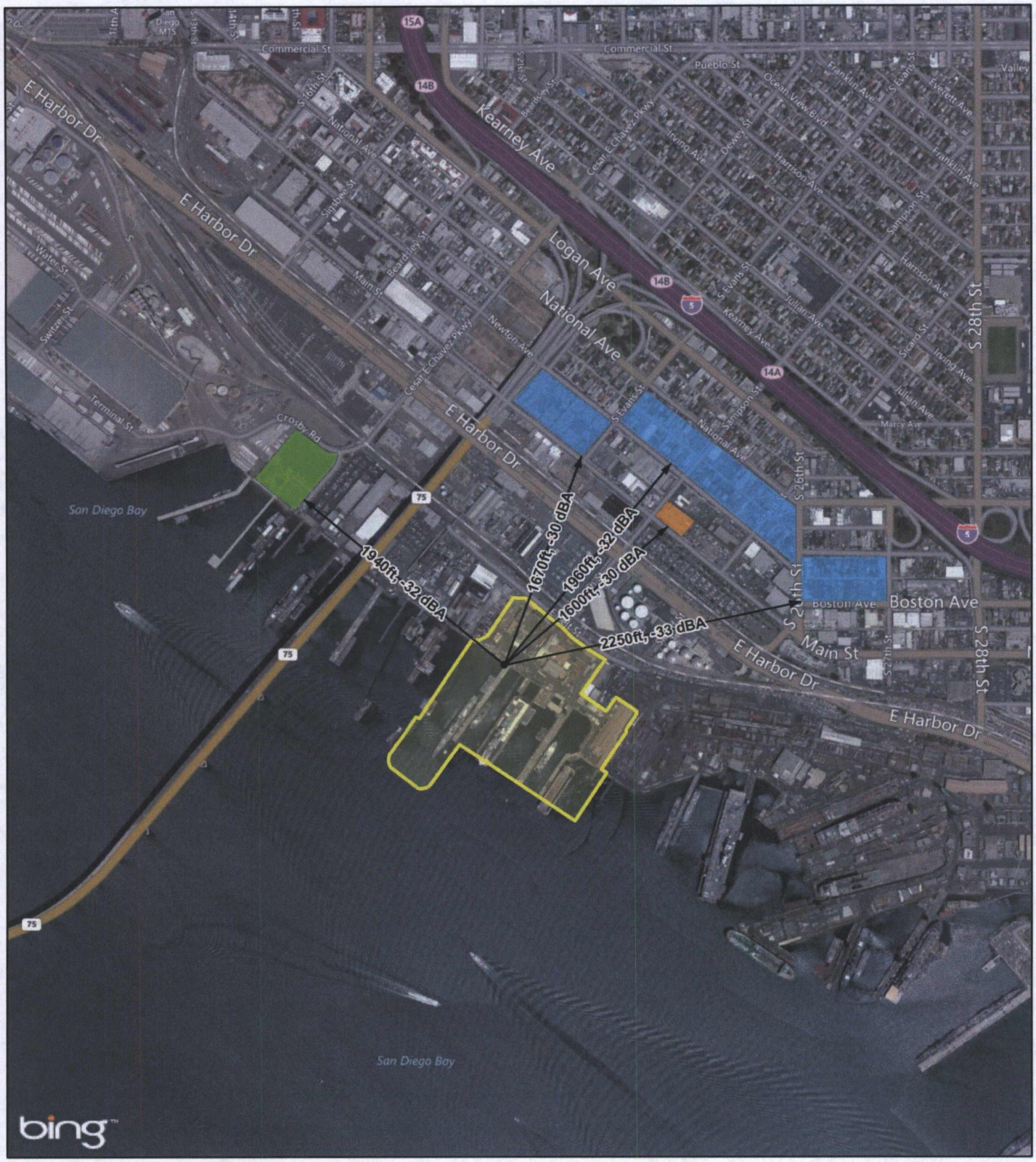
Construction of the proposed project is expected to require the use of a floating crane barge, a land-based crawler crane, deck barges, a tug boat, trucks, forklifts, a drilling rig, an impact hammer, a vibratory hammer, and concrete trucks. Based on Table K, the maximum noise level generated by each crane on the proposed project site is assumed to be 81 dBA L_{max} at 50 ft from the crane. Each dump truck would generate 76 dBA L_{max} at 50 ft. The maximum noise level generated by pickup trucks is also 75 dBA L_{max} at 50 ft from these vehicles. Each doubling of a sound source with equal strength increases the noise level by 3 dBA. Assuming that each piece of construction equipment operates at some distance from the other equipment, the worst-case combined noise level at each individual residence during this phase of construction would be 90 dBA L_{max} at a distance of 50 ft from the active construction area (with 8 pieces of equipment generating 81 dBA each or higher number of equipment with lower individual source noise levels). Pile driving, when used, would potentially result in a noise level of 93 dBA L_{max} at a distance of 50 ft (taken from Noise Control for Buildings and Manufacturing Plants, Bolt, Beranek & Newman, 1987).

There are existing residences located to the northwest of the project site, along Main Street and South Evans Street that are approximately 1,920 ft from the project boundary. Existing residences to the northeast along South 26th Street and Boston Avenue are approximately 2,250 ft from the project site. Existing residences to the north along Sicard Street and Newton Avenue are approximately 1,960 ft from the project site. Cesar Chavez Park is located approximately 1,940 ft to the northwest of the project site. A college, Woodbury School of Architecture, is located approximately 1,600 ft to the north of the project site. Figure 3 depicts these off-site sensitive receiver locations. Table L lists these sensitive receptors and their respective distances to the project site.

Table L: Nearest Off-site Noise Sensitive Receivers

Receiver Location	Direction	Distance (feet)
Main Street and South Evans Street	Northwest	1,670
South 26th Street and Boston Avenue	Northeast	2,250
Sicard Street and Newton Avenue	North	1,960
Cesar Chavez Park	Northwest	1,940
Woodbury School of Architecture	North	1,600

Source: LSA Associates, Inc.



LSA

LEGEND

Project Limits

Sensitive Receptors

Cesar Chavez Park

Woodbury School of Architecture

Residences

0 500 1000
FEET

FIGURE 3

Pier 1 North Drydock Project

Nearby Sensitive Receptors

SOURCE: Bing Maps (2012); BAE Systems (6/2014)

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The closest residences that are approximately 1,670 ft from the project boundary may be subject to short-term noise below 60 dBA L_{max} that is generated by construction activities (except pile driving, which is 3 dBA higher than standard construction equipment) near the project boundary at Pier 1 due to distance attenuation alone, which would decrease by 6 dBA per doubling of the distance (e.g., from 100 ft to 200 ft, or from 200 ft to 400 ft) under the soft site condition. Table M lists the distance attenuation for these off-site receivers under the soft site condition. Intervening commercial and/or industrial buildings and structures between the project site and these off-site sensitive uses would function as noise barriers and provide 10 to 20 dBA reduction depending on the shielding coverage by the intervening buildings/structures. Total noise reduction from distance attenuation and shield effect by intervening buildings/structures would be 40 to 50 dBA and reduce the on-site construction noise to 50 dBA L_{max} or lower at the off-site receivers that are 1,600 ft away. Noise from pile driving activity would potentially reach 53 dBA L_{max} at the nearest residences to the northeast. Cesar Chavez Park, approximately 1,940 ft from the project boundary, would receive 32 dBA from distance attenuation and at least 15 dBA of shielding effect from intervening buildings/structures. Construction noise from on-site activity would be reduced to 43 dBA L_{max} or lower from general construction activity and 46 dBA L_{max} from pile driving at the Cesar Chavez Park.

Table M: Noise Reduction at Off-site Noise Sensitive Receivers

Land Use/Receiver Location	Pile Driving Noise Level at 50 feet (dBA L_{max})	Shielding by Intervening Buildings* (dBA)	Distance (feet)	Total Reduction in Noise (dBA)	Resulting Noise Level (dBA L_{eq})[1]	City Noise Standard (dBA L_{eq})
Residences/Main Street and South Evans Street	93	10	1,670	40	53	75
Residences/South 26th Street and Boston Avenue	93	10	2,250	43	50	75
Residences/Sicard Street and Newton Avenue	93	10	1,960	42	51	75
Cesar Chavez Park	93	10	1,940	42	51	75
Woodbury School of Architecture	93	10	1,600	40	53	75

Source: LSA Associates, Inc.
* Shielding by intervening buildings assumes the minimum 10 dBA only. It could be higher depending on the density of the buildings and/or structures between the receiver and the project site.
[1] Assumes that the maximum noise would last for more than 30 minutes in an hour so it becomes L_{eq} level.

This range of maximum construction noise would occur only intermittently when construction activity occurs near the project's boundary. As stated previously, typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 or 4 minutes at lower power settings. It would be rare for the equipment to operate at full power continuously over an entire hour. Therefore, the above analysis shows that, even if under the worst-case scenario of the equipment operating at full power continuously, the maximum hourly noise level at the off-site receiver locations would be 53 dBA $L_{eq}(1)$ or lower, and would be below the 75 dBA $L_{eq}(1)$ noise standard over a 1-hour period. Traffic noise in the immediate vicinity of these

noise-sensitive uses would be higher than the projected construction noise and would generally mask any project-related construction noise. Compliance with the construction hours and maximum noise levels specified in the City's Noise Abatement and Control Ordinance is a standard requirement of all development/construction in the project area and would further limit construction-related noise impacts to off-site sensitive receptors.

The ocean disposal of excavated dredged materials at the off-shore disposal site would not result in any perceptible noise for the sensitive land uses to the north (residences and college) and west (Cesar Chavez Park) of the project site. No significant construction noise impacts would occur during the ocean disposal of the excavated dredge materials.

The removal of cooling tunnels would require excavation of soil, dewatering, installation of shoring to protect the excavation, demolition and removal of tunnels (concrete), and backfill with clean structural fill. These construction activities are similar to the above discussion for the proposed dry dock installation. Therefore, no significant construction noise impacts would occur during the removal of the cooling tunnels. The cumulative conditions when the removal of cooling tunnels occurs at the same time as the construction of the Pier 1 Dry Dock have been discussed above for both on-site (areas adjacent to the project site) and off-site (along access routes) receptors.

CONSTRUCTION VIBRATION IMPACT

Groundborne noise and vibration from construction activity would be mostly low to moderate except if pavement breaking or sheet pile vibration is used on site. Heavy-tracked construction equipment generates approximately 92 VdB of groundborne vibration when measured at 50 ft, based on the *Transit Noise and Vibration Impact Assessment* (FTA, May 2006). This level of groundborne vibration exceeds the threshold of human perception, which is approximately 65 VdB. Based on the Caltrans *Transportation Related Earthborne Vibration, Technical Advisory* (Rudy Hendricks, July 24, 1992), the vibration level decreases by 6 VdB for every doubling of the distance between the source and the receiver. Therefore, receptors at 50 ft and 100 ft from the construction activity may be exposed to groundborne vibration of up to 92 VdB and 86 VdB, respectively. Groundborne vibration levels at the nearest residences approximately 1,000 ft from the project construction activity would be reduced to 66 VdB from distance attenuation alone. This range of vibration would be slightly over the 65 VdB human perception threshold, but would not cause any damage to the buildings. Construction vibration, similar to vibration from other sources, would not have any significant effects on outdoor activities such as those in Cesar Chavez Park, approximately 1,940 ft to the northwest of the project site, that would experience vibration level up to 60 VdB.

Table N lists the potential vibration level from construction equipment in terms of the peak particle velocity (PPV), or inch/sec. As shown in the table, pile driving would result in 0.644 inch/sec of PPV at 25 ft. This vibration level quickly drops to 0.124 inch/sec at 75 ft from the vibration source. At the nearest sensitive uses that are 1,600 ft or more from the project boundary (Cesar Chavez Park, Woodbury School of Architecture, and existing residences to the northwest, north, and northeast), the vibration from pile driving at the project site would be reduced to less than 0.001 inch/sec, which would not be perceptible by occupants at these nearest sensitive uses. Likewise, no structural damage would occur at these off-site sensitive uses. In addition, no structural damage would occur at the nearest industrial/commercial buildings that are more than 200 ft away since construction vibration on

Table N: Vibration Source Amplitudes for Construction Equipment

Equipment	Reference PPV at 25 ft (inch/sec)	
	at 25 ft (inch/sec)	at 75 ft (inch/sec)
Pile Driver (Impact), Typical	0.644	0.124
Pile Driver (Sonic), Typical	**0.170**	**0.033**
Vibratory Roller	0.210	0.041
Large Bulldozer	0.089	0.017
Caisson Drilling	0.089	0.017
Loaded Trucks	**0.076**	**0.015**
Jackhammer	0.035	0.007
Small Bulldozer	0.003	0.001
Crack-and-Seat Operations	2.400	0.462

Sources: Federal Transit Administration (2006), except Hanson 2001 for vibratory rollers and Caltrans 2000 for crack-and-seat-operations.
Equipment in **Bold** is expected to be used on the project site.
Caltrans = California Department of Transportation
ft = feet
inch/sec = inches per second
PPV = peak particle velocity

the project site would drop to below 0.5 inch/sec at these nearest off-site buildings (see previously referenced Table I).

Any construction activity occurring on the ocean side of the project site would result in lower vibration levels to the sensitive land uses (residences, a college, and a park) in the project vicinity. As a receiver moves away from the project site, the perceived vibration level would decrease proportionally. Therefore, no construction vibration impacts would occur as a result of the construction activity in the ocean.

OPERATIONAL STATIONARY SOURCE NOISE IMPACT

Operational/Stationary Source Noise. While the expansion of drydock capabilities and supporting facilities would accommodate large vessels, the industrial marine repair activities taking place at the project site would be similar to existing conditions. During the peak operational day with implementation of the project, there may be up to 93 more employees (which would include customer visits) to the project site, with two-thirds of new employees assigned to the first shift (6:00 a.m.–2:30 p.m.) The surrounding community is subject to various stationary noise sources including existing shipyard activities. Noise associated with these activities includes various types of outdoor mechanical equipment, warning horns and truck deliveries. The noise level associated with these activities varies. Delivery trucks produce a maximum noise level of approximately 75–85 dBA at a distance of 50 feet depending in part on the speed of the truck. The truck back-up alarms typically generate 65–75 dBA at 50 feet. It is anticipated that noise associated with shipyard operations would continue to range from 70 to 80 dBA L_{eq} at a distance of 50 feet from the shipyard. The incremental

increase in peak operational day activities is not expected to substantially alter the nature of daily shipyard activities; therefore, no substantial change in the nature of shipyard noise is anticipated.

Residential. The closest residences are located along Main Street/South Evans Street and Sicard Avenue/Newton Avenue approximately 1,670 feet from the drydock. Assuming an operational noise level of 80 dBA at 50 feet, distance divergence would provide an approximate 30 dBA in noise attenuation. Additionally, with the line-of-sight between the noise source and a receptor blocked by intervening structures, would provide an additional noise reduction from 10 to 20 dBA. Project-related operational noise at the nearest residential uses would range from 30 to 40 dBA.

School. The Woodbury School of Architecture is located along Main Street in a commercial area approximately 1,600 feet from the drydock. At this location, the school would receive 30 dBA noise attenuation from distance divergence. Intervening structures would provide additional noise reduction of up to 20 dBA. Project-related operational noise at the institutional use would range from 30 to 40 dBA.

Cesar Chavez Park. Located approximately 1,940 feet from the drydock, this park would receive 32 dBA attenuation from distance divergence and at least 15 dBA attenuation from intervening structures. Assuming a noise level of 80 dBA at 50 feet, project-related operational noise would be reduced to 33 dBA.

Based on the foregoing discussion, continuing shipyard activities associated with the proposed project would not permanently increase noise levels at noise-sensitive uses in excess of established standards. A less than significant impact would occur; therefore, no mitigation is required.

Table O lists the distance attenuation for these off-site receivers under the soft site condition. Intervening commercial and/or industrial buildings and structures between the project site and these off-site sensitive uses would function as noise barriers and provide 10 to 20 dBA reduction depending on the shielding coverage by the intervening buildings/structures. Total noise reduction from distance attenuation and shield effect by intervening buildings/structures would be 30 to 50 dBA and reduce the on-site construction noise to 40 dBA L_{max} or lower at the off-site receivers that are 1,600 ft or more away. Therefore, noise from project operations would not exceed thew City's operational noise standards at the single family residences and other noise-sensitive uses in the project vicinity. No mitigation measures are required.

Table O: Operational Noise Reduction at Off-site Noise Sensitive Receivers

Land Use/Receiver Location	Project Operations Noise Level at 50 feet (dBA L_{max})	Shielding by Intervening Buildings* (dBA)	Distance (feet)	Total Reduction in Noise (dBA)	Resulting Noise Level (dBA L_{eq})[1]	City Noise Standard (dBA L_{eq})
Residences/Main Street and South Evans Street	80	10-20	1,670	40	40	40-50[2]
Residences/South 26th Street and Boston Avenue	80	10-20	2,250	43	37	40-50

Table O: Operational Noise Reduction at Off-site Noise Sensitive Receivers

Land Use/Receiver Location	Project Operations Noise Level at 50 feet (dBA L_{max})	Shielding by Intervening Buildings* (dBA)	Distance (feet)	Total Reduction in Noise (dBA)	Resulting Noise Level (dBA L_{eq})[1]	City Noise Standard (dBA L_{eq})
Residences/Sicard Street and Newton Avenue	80	10-20	1,960	42	38	40-50
Cesar Chavez Park	80	10-20	1,940	42	38	40-50
Woodbury School of Architecture	80	10-20	1,600	40	40	40-50

Source: LSA Associates, Inc.
* Shielding by intervening buildings assumes the minimum 10 dBA only. It could be higher depending on the density of the buildings and/or structures between the receiver and the project site.
1 Assumes that the maximum noise would last for more than 30 minutes in an hour so it becomes L_{eq} level.
2 7:00 a.m.-7:00 p.m., 50 dBA Leq(1h); 7:00 p.m.-10:00 p.m., 45 dBA Leq(1h); 10:00 p.m.-7:00 a.m., 40 dBA Leq(1h).

TRAFFIC NOISE IMPACT

The primary existing noise sources in the project area are transportation facilities and shipyard repair operations. Traffic on local streets in the project vicinity is the source of ambient noise. The projected future ADT volumes for roadway segments in the project vicinity are obtained from the *Traffic Impact Study* (LSA, March 201) prepared for this project.

The FHWA *Highway Traffic Noise Prediction Model* (FHWA RD-77-108) was used to evaluate highway traffic-related noise conditions in the vicinity of the project site. Tables P, Q, and R provide the existing with project, the 2017 cumulative without project, and the 2017 cumulative with project scenarios, respectively, along roadway segments in the project vicinity. These noise levels represent worst-case scenarios, which assume that no shielding is provided between the traffic and the location where the noise contours are drawn. The specific assumptions used in developing these noise levels and the model printouts are provided in Appendix A. Traffic noise levels would remain similar to the

Table P: Existing Traffic Noise Levels With Project

Roadway Segment	ADT	Center-line to 70 CNEL (ft)	Center-line to 65 CNEL (ft)	Center-line to 60 CNEL (ft)	CNEL (dBA) 50 Ft from Centerline of Outermost Lane	Increase CNEL (dBA) 50 Ft from Centerline of Outermost Lane
Logan Avenue from I-5 southbound Off-Ramp to Cesar Chavez	6,500	< 50	< 50	100	62.7	0.0

Table P: Existing Traffic Noise Levels With Project

Roadway Segment	ADT	Center-line to 70 CNEL (ft)	Center-line to 65 CNEL (ft)	Center-line to 60 CNEL (ft)	CNEL (dBA) 50 Ft from Centerline of Outermost Lane	Increase CNEL (dBA) 50 Ft from Centerline of Outermost Lane
Cesar Chavez Parkway from Kearney Avenue to Logan Avenue	14,500	< 50	80	169	66.2	0.0
Cesar Chavez Parkway from Logan Avenue to Harbor Drive	11,700	< 50	70	147	65.2	0.0
Kearney Avenue from Cesar Chavez Parkway to Sampson Street	500	< 50	< 50	< 50	49.6	0.0
Harbor Drive from Cesar Chavez Parkway to Sampson Street	8,500	< 50	58	119	63.8	0.0
Harbor Drive from Sampson Street to 28th Street	9,600	< 50	62	129	64.4	0.0
Sampson Street from 28th Street to Kearney Avenue	3,300	< 50	< 50	< 50	57.8	0.2
Sampson Street from Kearney Avenue to Harbor Drive	2,700	< 50	< 50	< 50	56.9	0.0
28th Street from SR-94 eastbound Ramps to Sampson Street	7,100	< 50	< 50	66	61.1	0.1
28th Street from National Avenue to Boston Avenue	14,000	< 50	79	166	66.0	0.0
28th Street from Boston Avenue to Harbor Drive	15,300	< 50	83	176	66.4	0.0
National Avenue from 28th Street to I-5 northbound Ramps	14,700	< 50	80	171	66.7	0.0
Boston Avenue from 28th Street to I-5 southbound On-Ramp	8,200	< 50	< 50	73	61.7	0.0

Source: LSA Associates, Inc. (March 2015).
Note: Traffic noise within 50 ft of the roadway centerline should be evaluated with site-specific information.
ADT = average daily trips
CNEL = community noise equivalent level
dBA = A=weighted decibel(s)
ft = feet/foot
I-5 = Interstate 5
SR-94 = State Route 94

Table Q: 2017 Cumulative Traffic Noise Levels Without Project

Roadway Segment	ADT	Center-line to 70 CNEL (ft)	Center-line to 65 CNEL (ft)	Center-line to 60 CNEL (ft)	CNEL (dBA) 50 ft from Centerline of Outermost Lane
Logan Avenue from I-5 southbound Off-Ramp to Cesar Chavez	6,800	< 50	< 50	103	62.9
Cesar Chavez Parkway from Kearney Avenue to Logan Avenue	16,100	< 50	86	182	66.6
Cesar Chavez Parkway from Logan Avenue to Harbor Drive	12,900	< 50	76	159	65.7
Kearney Avenue from Cesar Chavez Parkway to Sampson Street	1,200	< 50	< 50	< 50	53.4
Harbor Drive from Cesar Chavez Parkway to Sampson Street	9,800	< 50	64	133	64.5
Harbor Drive from Sampson Street to 28th Street	10,900	< 50	68	142	65.0
Sampson Street from 28th Street to Kearney Avenue	3,600	< 50	< 50	< 50	58.1
Sampson Street from Kearney Avenue to Harbor Drive	3,000	< 50	< 50	< 50	57.5
28th Street from SR-94 eastbound Ramps to Sampson Street	7,400	< 50	< 50	68	61.3
28th Street from National Avenue to Boston Avenue	15,000	< 50	82	174	66.3
28th Street from Boston Avenue to Harbor Drive	16,700	< 50	88	187	66.8
National Avenue from 28th Street to I-5 northbound Ramps	15,900	< 50	84	180	67.1
Boston Avenue from 28th Street to I-5 southbound On-Ramp	9,300	< 50	< 50	80	62.3

Source: LSA Associates, Inc. (March 2015).
Note: Traffic noise within 50 ft of the roadway centerline should be evaluated with site-specific information.
ADT = average daily trips
CNEL = community noise equivalent level
dBA = A=weighted decibel(s)
ft = feet/foot
I-5 = Interstate 5
SR-94 = State Route 94

Table R: 2017 Cumulative Traffic Noise Levels With Project

Roadway Segment	ADT	Center-line to 70 CNEL (ft)	Center-line to 65 CNEL (ft)	Center-line to 60 CNEL (ft)	CNEL (dBA) 50 Ft from Centerline of Outermost Lane	Increase CNEL (dBA) 50 Ft from Centerline of Outermost Lane
Logan Avenue from I-5 southbound Off-Ramp to Cesar Chavez	6,800	< 50	< 50	104	62.9	0.0
Cesar Chavez Parkway from Kearney Avenue to Logan Avenue	16,100	< 50	86	182	66.6	0.0
Cesar Chavez Parkway from Logan Avenue to Harbor Drive	13,000	< 50	76	159	65.7	0.0
Kearney Avenue from Cesar Chavez Parkway to Sampson Street	1,200	< 50	< 50	< 50	53.4	0.0
Harbor Drive from Cesar Chavez Parkway to Sampson Street	9,800	< 50	64	134	64.6	0.1
Harbor Drive from Sampson Street to 28th Street	11,000	< 50	68	143	65.0	0.0
Sampson Street from 28th Street to Kearney Avenue	3,600	< 50	< 50	< 50	58.3	0.2
Sampson Street from Kearney Avenue to Harbor Drive	3,000	< 50	< 50	< 50	57.5	0.0
28th Street from SR-94 eastbound Ramps to Sampson Street	7,400	< 50	< 50	68	61.3	0.0
28th Street from National Avenue to Boston Avenue	15,000	< 50	82	174	66.3	0.0
28th Street from Boston Avenue to Harbor Drive	16,800	< 50	89	188	66.8	0.0
National Avenue from 28th Street to I-5 northbound Ramps	16,000	< 50	84	180	67.1	0.0
Boston Avenue from 28th Street to I-5 southbound On-Ramp	9,400	< 50	< 50	80	62.3	0.0

Source: LSA Associates, Inc. (March 2015).
Note: Traffic noise within 50 ft of the roadway centerline should be evaluated with site-specific information.
ADT = average daily trips
CNEL = community noise equivalent level
dBA = A=weighted decibel(s)
ft = feet/foot
I-5 = Interstate 5
SR-94 = State Route 94

baseline, no project scenario along street segments in the project vicinity. Project-related traffic noise level increases would be 0.2 dBA or less along all roadway segments in the project vicinity.

Off-Site Noise Impacts

As a rule of thumb, a doubling of the traffic volumes would increase the traffic noise levels by 3 dBA. Based on traffic volumes presented in Tables P and R, project-related traffic noise level increases would be 0.2 dBA or less and would be less than the 3 dBA increase in the threshold of human ear perception along roadway segments in the project vicinity. This range of traffic noise level increases is not perceptible by the human ear in an outdoor environment. The proposed project would not result in residential uses along affected roadway segments being exposed to traffic noise levels from below 65 dBA to levels above 65 dBA CNEL. Therefore, no significant traffic noise impacts would occur.

On-Site Noise Impacts

The City does not have exterior noise standard for industrial uses for CEQA review purposes. The noise evaluation is based on the project's preliminary building footprints. Since there would be no active outdoor use areas such as lunch patios within the noise impact area along Harbor Drive, no significant traffic noise impacts would occur. In addition, the proposed project is not considered noise-sensitive. No mitigation measures are required for traffic noise.

Long-Term Groundborne Noise and Vibration from Vehicular and Ship Traffic

Because the rubber tires and suspension systems of buses and other on-road vehicles provide vibration isolation and reduce noise, it is unusual for on-road vehicles to cause groundborne noise or vibration problems. When on-road vehicles cause effects such as rattling of windows, the source is almost always airborne noise. Most problems with on-road vehicle-related noise and vibration can be directly related to a pothole, bump, expansion joint, or other discontinuity in the road surface. Smoothing the bump or filling the pothole will usually solve the problem. The proposed project would have roads with smooth pavement and would not result in significant groundborne noise or vibration impacts from vehicular traffic. Since the project site is approximately 800 ft or more from the nearest noise-sensitive land uses, vibration associated with on-site operations would have no measurable effect on these off-site land uses. No significant vibration impacts would occur, and no mitigation measures would be required.

Ships traveling to and from the project site via the ocean side of the project would not result in any vibration impacts on the land-side uses, especially for sensitive uses that are 800 ft or more from the project site. No significant vibration impacts would occur from the ocean-side activity, and no mitigation measures would be required.

MITIGATION MEASURES

CONSTRUCTION NOISE AND VIBRATION IMPACTS

Construction activities must comply with the hours set by the City's Municipal Code. Construction noise levels measured at or beyond the property lines of any property zoned residential shall not exceed an average sound level greater than 75 dB during the 12-hour period from 7:00 a.m. to 7:00 p.m. In addition, construction activity is prohibited between the hours of 7:00 p.m. of any day and 7:00 a.m. of the following day, or on legal holidays as specified in Section 21.04 of the San Diego Municipal Code, with exception of Columbus Day and Washington's Birthday, or on Sundays, that would create disturbing, excessive, or offensive noise unless a permit has been applied for and granted beforehand by the Noise Abatement and Control Administrator, in conformance with San Diego Municipal Code Section 59.5.0404.

LONG-TERM NOISE IMPACTS

No mitigation is required.

LONG-TERM VIBRATION IMPACTS

No mitigation is required.

LEVEL OF SIGNIFICANCE AFTER MITIGATION

No significant short-term or long term noise impacts have been identified. Compliance with the City of San Diego Municipal Code, which is a standard condition for all construction activity within the C would ensure that short-term impacts remain less than significant. Therefore, no mitigation measures are warranted. Impacts are less than significant.

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———. Roadway Construction Noise Model. FHWA Highway Construction Noise Handbook, August 2006.

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APPENDIX A

PROJECT DESCRIPTION

Technical Studies

Project Description

In order to assess a project's potential effect on the environment, a description of the project is necessary and required pursuant to Section 15124 of the CEQA Guidelines. The following Project Description, to be used for the preparation of required technical studies, discusses the construction and operational characteristics of the reasonably foreseeable phases of the Proposed Project (which consists of three project components as described later in this section), the geographic setting and location, San Diego Unified Port District (District) Port Master Plan designations for the Proposed Project site, and the discretionary actions required to implement the Proposed Project. The Project Description will be used as the basis for analyzing the Proposed Project's impacts on the existing environment in the Environmental Impact Report (EIR).

BAE Systems proposes to site a new drydock (dry berth) on the north side of its Pier 1 and extend its existing lease-term based on its investments from the proposed project on the leasehold. The drydock would support the current and planned future home-porting of United States (US) Naval assets (ships) in San Diego and allow greater flexibility in the utilization of drydocking facilities. The proposed drydock would replace an existing wet berth, used for ship repair and maintenance, with a dry berth. Although the majority of the proposed project is within the District's jurisdiction, approvals from the California State Lands Commission (CSLC) and the California Coastal Commission (CCC) are required for actions associated with the portion of the drydock that is outside of the District's jurisdiction. The proposed project would also be required to obtain building permits from the City of San Diego for on-shore utility and fire protection.

BAE Systems also proposes to enter into a future, long-term real estate agreement with the District on the neighboring 2-acre land parcel and 4-acre water area under a Tidelands Use and Occupancy Permit (TUOP).[1] The future, long-term real estate agreement may include, but is not limited to, an amendment to BAE Systems' existing lease[2] with the District. The TUOP parcel (formerly known as the San Diego Gas and Electric [SDG&E] parcel) contains two existing underground intake/discharge tunnels which could be removed during or at a later phase of the proposed project.[3] Preliminary potential remediation efforts associated with the removal of the intake/discharge tunnels that exist within the District tidelands is identified and analyzed as part

[1] At the time of preparation of this Project Description, the Tidelands Use and Occupancy Permit (TUOP) with SDG&E, dated November 1, 2009 (Document No. 55689) expired on October 31, 2014. This parcel is currently leased to BAE Systems by the District via a 5-year TUOP.

[2] Lease dated September 1, 1979 (as Document No. 12223), as amended.

[3] The drydock component and the cooling tunnel component are independent of one another (i.e., the removal of the cooling tunnels are not dependent on the construction of the proposed drydock and vice versa).

of the EIR. These three project components are collectively referred to as the proposed project throughout the EIR.

1.1 PROJECT LOCATION

The BAE Systems' existing facility (i.e., leasehold) is situated along the eastern shoreline of central San Diego Bay located at 2205 East Belt Street in the City of San Diego (Figure 1). The proposed project site is bounded to the west by the San Diego Bay, to the north by R.E. Staite Engineering, to the east by the existing BAE Systems facility and other marine-related industries, and to the south by the NASSCO/General Dynamics ship building facility. The entire area is developed and/or leased to marine-related industrial businesses.

The proposed project site includes the existing 9.8 acre (landside) and 16.6-acre (waterside) BAE Systems leasehold within the District and approximately 74,300 square feet (sf) in jurisdiction of the District and is located within the jurisdiction of the CSLC. The proposed project site also includes an approximately 2-acre (landside) and 4-acre (waterside) parcel currently leased by BAE Systems through a TUOP. This TUOP parcel is located at 400 East Belt Street. Figure 2 provides an overview of the proposed project area and the applicable jurisdictional boundaries within the proposed project area. BAE Systems currently has a lease allowing for operations occurring in the portion of the project site within the CSLC's jurisdiction; however, for the portion of the drydock to be located outside of the District's jurisdiction, BAE Systems would apply directly to the CSLC for a lease amendment as well as apply to the CCC for permits and entitlements.

1.2 PROJECT SETTING

1.2.1 Existing Site Conditions

1.2.1.1 Landside Conditions

Existing facilities within the landside area of the existing BAE Systems leasehold include production shops, offices and office facilities, and related utilities and infrastructure necessary for the maintenance, repair, overhaul, and conversion of large US Naval and commercial vessels. Waterfront storm water collection tanks are located throughout the facility. Additionally, there are areas of pavement and ramps, as well as buried pipes, a valve vault, utility vaults, three underground sewage lift stations, electrical substations, and concrete revetments. Figure 3 illustrates the conditions of the existing Pier 1 and the entrance to the intake/discharge water tunnels.

BAE Systems currently leases the neighboring, northwestern 2-acre (landside) parcel from the District for parking and storage of materials. The 2-acre TUOP parcel currently has two subsurface intake/discharge water tunnels that were installed by SDG&E and previously used for intake/discharge of cooling water for the SDG&E Silvergate Power Plant.[1] The intake/

[1] The SDG&E Silvergate Power Plant ceased operations in 1984. In 2007, SDG&E completed the abatement, decontamination, and dismantlement of all interior equipment and demolition of the structure. (Cleveland Wrecking Company, website:


Project Location
Project Vicinity
San Diego County
Project Location
San Diego Bay
Coronado Municipal Golf Course
Naval Base San Diego
Barrio Logan
Grant Hill
Sherman Heights
Logan Heights
Memorial
Stockton
Sigsbee Row
The Metropolitan
Pinnacle Museum Tower Condominium
Pacific Terrace
Angove Condos
East Village
Gaslamp
Marina
Condominiums
Pier South
Tidelands Park
Coronado Ferry Landing Shopping Ctr
Marina Park
Petco Park
San Diego Convention Center
Memorial Park and Recreation Center
Ocean View Blvd
Boston Ave
Church St
Le Hardy St
Colton Ave
Norman Scott Rd
Buchanan St
Surface Navy Bldg
Knowlton Williams
Harbor Dr
National Ave
Logan Ave
Imperial Ave
Market St
Broadway
Commercial St
Clay Ave
Franklin Ave
Martin Ave
Greely Ave
Webster Ave
Valley Pl
Water St
Terminal St
Pacific Hwy
Kettner Blvd
Cesar E Chavez Pkwy
Park Blvd
Harbor Dr
Julian Ave
Irving Ave
Newton Ave
Main St
Beardsley St
Sicard St
Evans St
Franklin Ave
Hemlock St
Dewey St
Sampson St
Harbison Ave
Gillette St
Steel St
Gregory St
Barcroft St
Greater St
Senn Rd
Weller St
Kaiser St
Bunker St
Vesta St
Woden St
McCain
Rigel St
Sicard St
Evans St
Logan Ave
Imperial Ave
Island Ave
J St
K St
L St
Grant Hill
Hart St
Dodson St
Hemlock St
Dewey St
Sampson St
Harbison Ave

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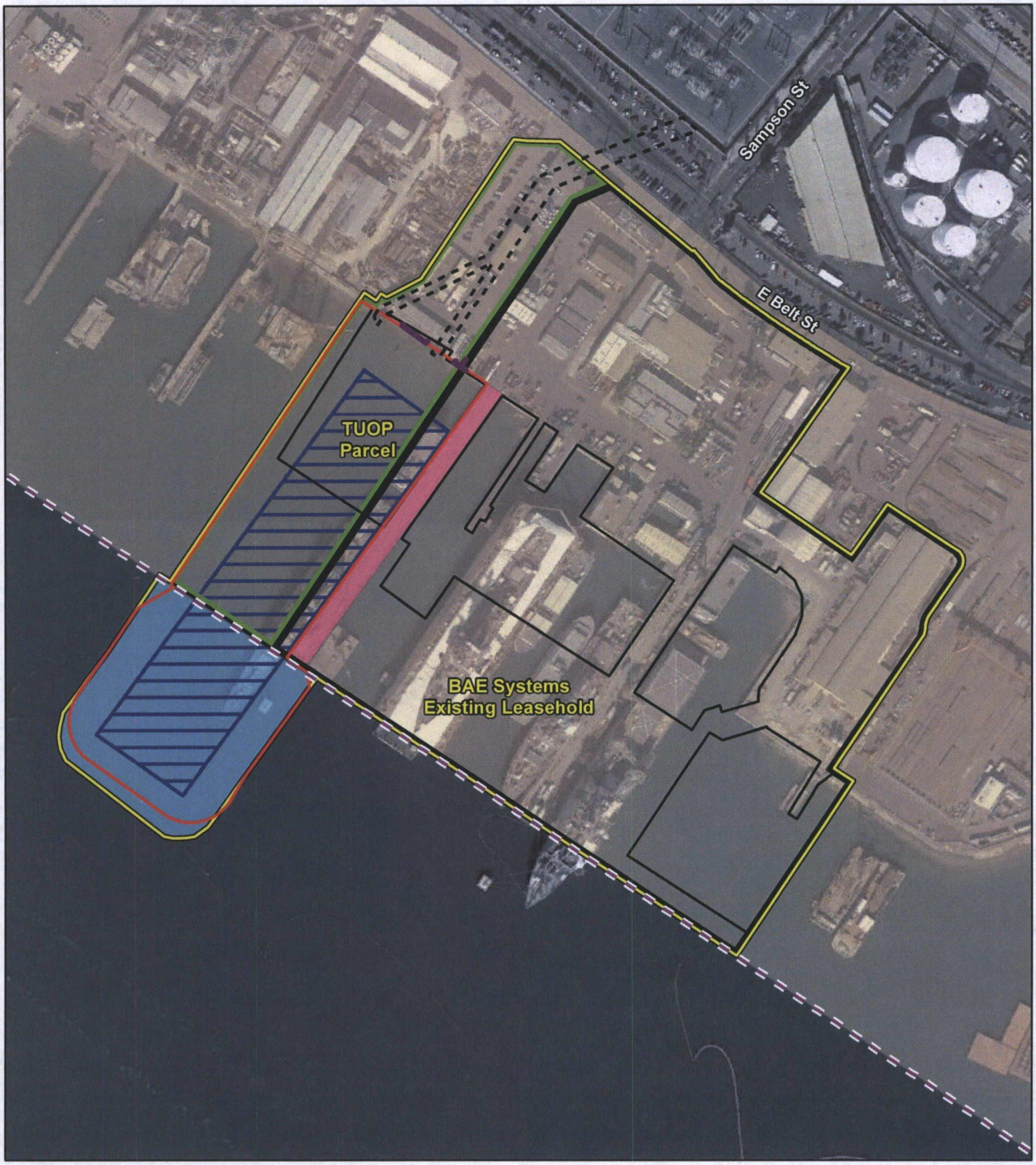

LSA

LEGEND

- U.S. Pierhead Line
- Project Limits
- California State Lands Commission Jurisdiction
- Port Jurisdiction
- Existing Cooling Tunnels
- Remedial Footprint

Project Features

- Existing Pier 1
- Proposed Floating Dry Dock
- Submerged Cantilever Sheet Pile Bulkhead Wall – Part of Separate Project
- Dredge Area
- BAE Systems Existing Leasehold
- TUOP Parcel

0 137.5 275
FEET

SOURCE: Google Earth (2013); BAE Systems (9/2014)

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FIGURE .2

Pier 1 North Drydock Project

Project Overview and Applicable Jurisdictions

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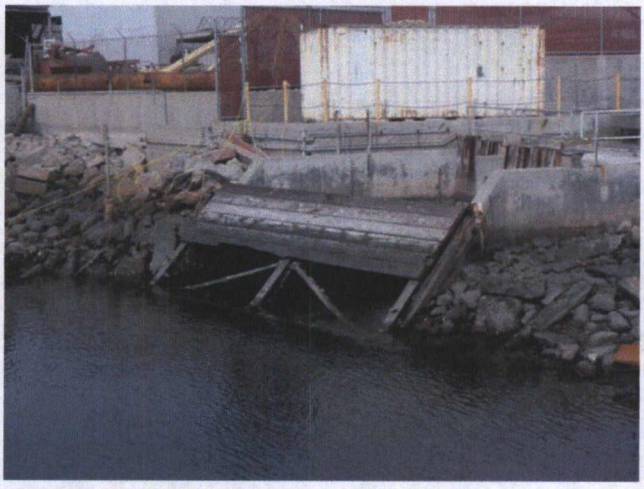
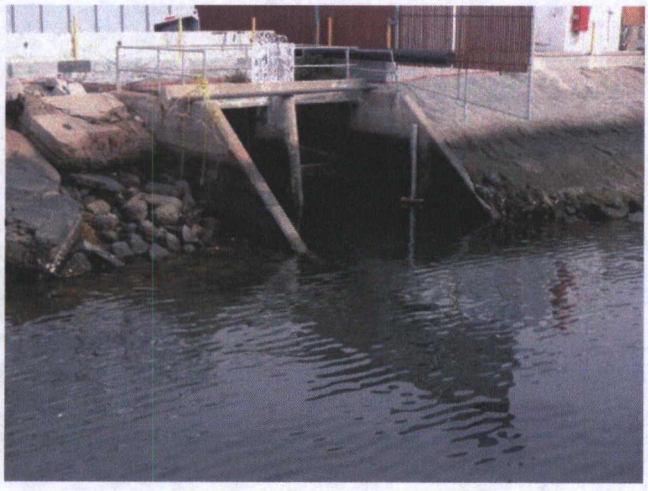
Existing Pier 1.



Existing cooling tunnels intake.



Discharge structures.

LSA

FIGURE 3

Pier 1 North Drydock Project

Existing Facility Photographs

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discharge tunnels consist of two tunnels for intake water and two tunnels for outbound water. Each tunnel is approximately 700 feet (ft) long with an 8 ft square opening. As depicted in Figure 4, the portion of the tunnels within the District's jurisdiction stretch from the south curb of Belt Street to the San Diego Bay and consist of approximately 490 ft of intake tunnels and approximately 450 ft of discharge tunnels. Outside the District's jurisdiction, the tunnels traverse for an additional 250 ft north of the existing leasehold beginning at East Belt Street, crossing underneath Burlington Northern Santa Fe (BNSF) Railway property, and extending into the existing SDG&E substation north of the proposed project site. The Silvergate power plant was removed in 2007 and the intake/discharge tunnels are no longer in operation. Although removal of the cooling tunnels is anticipated to occur after installation of the drydock, in order to analyze conservative worst-case construction conditions, the simultaneous construction of the Pier 1 North Drydock (overlapping Phases 1 through 6) and the removal of the cooling tunnels (Phase 3) was analyzed in the traffic analysis for this EIR.

1.2.1.2 Waterside Conditions

Existing facilities within the waterside area include BAE Systems Piers 1, 3, and 4 and a floating drydock. The removal of Pier 2 is currently ongoing and is not associated with the proposed project. The removal of Pier 2 is covered by US Army Corps of Engineers (USACE) Permit No. SPL-2013-00146-RRS in conjunction with the Shipyard Sediment Remediation Project. These existing facilities are all located within jurisdiction of the District along the eastern shoreline of the San Diego Bay in an area that is developed with marine terminals and other piers. The three working piers are used to moor vessels during maintenance, repair, overhaul and conversion activities; are designed to accommodate berthing for large deep-draft US Navy and commercial vessels; and include a variety of crane and utility services to support these maintenance activities.

BAE Systems currently operates one floating drydock at the project site. This floating drydock ("Pride of San Diego" or "POSD") has been operating at the site since 1984. A second drydock (AFDL/Diligence) was in operation at the BAE Systems facility until 2010, at which time it was sold and relocated to the South Bay. The second drydock was subsequently resold in 2013, and was removed from San Diego Bay.

As depicted in Figure 2, approximately 10.5 acres within the existing BAE Systems leasehold and the TUOP parcel (waterside only) would be affected by the ongoing and future remediation activities associated with the Shipyard Sediment Remediation Project. The Shipyard Sediment Remediation Project consists of a cleanup plan for marine sediments in the bottom bay waters that contain elevated levels of pollutants above San Diego Bay background conditions. The Shipyard Sediment Remediation Project was approved by the San Diego Regional Water Quality Control Board (San Diego RWQCB) on March 14, 2012, in response to the Cleanup and Abatement Order (CAO) No. R9-2012-0024. The District issued a Coastal Development Permit (CDP) for the project on August 1, 2013. On July 10, 2013, the San Diego RWQCB adopted Waste Discharge Requirements (WDR) Order No. R9-2013-0093401 and Water Quality Certification (401 WQC), which allowed for implementation of the remediation activities required

by the CAO. The purpose of the CAO is to restore the beneficial uses of San Diego Bay within the Shipyard Sediment Remediation Project site.

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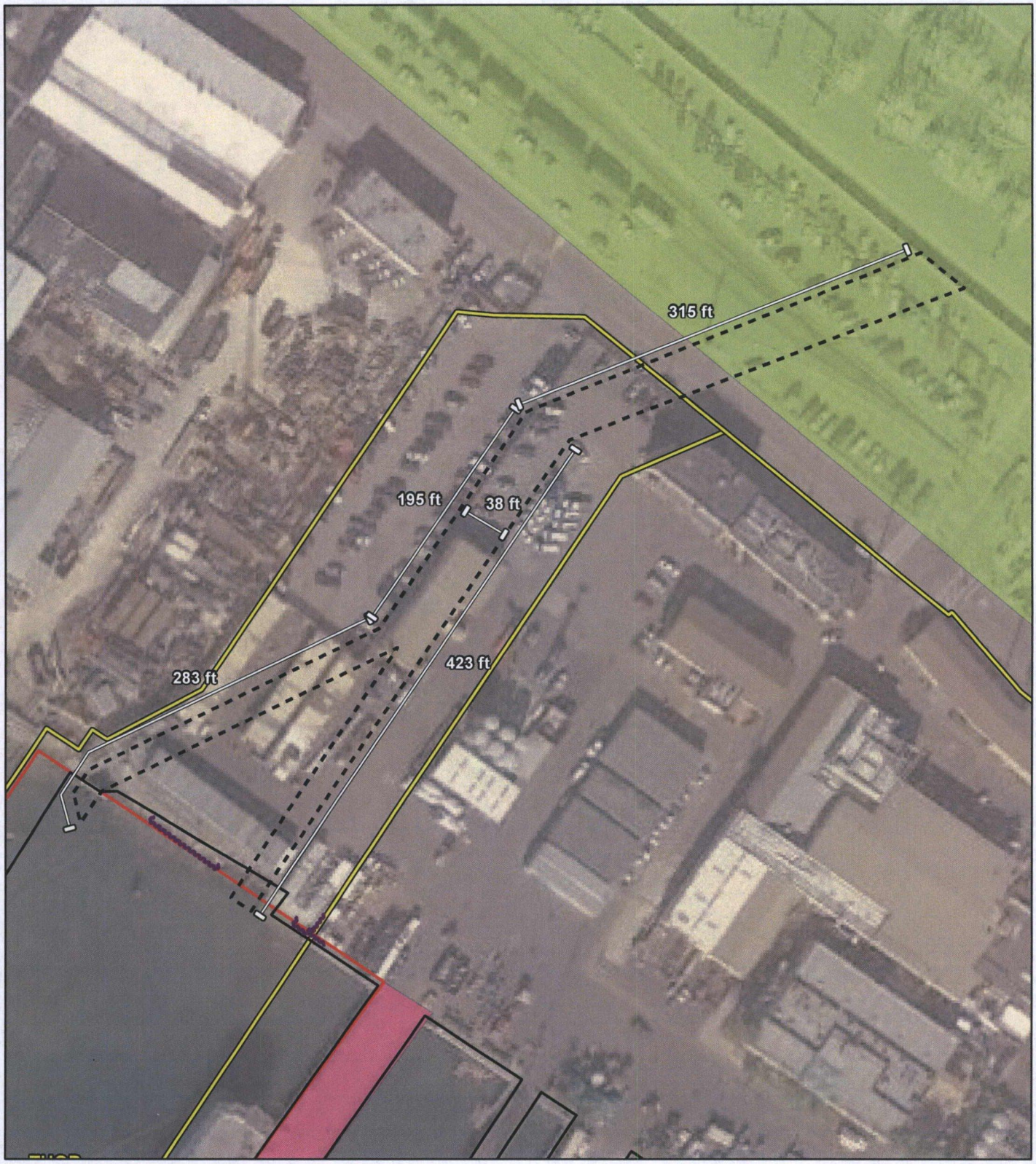

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FIGURE 4

LEGEND

- Project Limits
- Port Jurisdiction
- City of San Diego Jurisdiction
- Existing Cooling Tunnels
- Remedial Footprint

Project Features

- Existing Pier 1
- Submerged Cantilever Sheet Pile Bulkhead Wall – Part of Separate Project
- Dredge Area

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SOURCE: Google Earth (2013); BAE Systems (6/2014)

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Pier 1 North Drydock Project

Cooling Tunnels

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On July 16, 2013, the District's Board of Port Commissioners (Board) considered the Final Program EIR (PEIR) and post Final PEIR certification documents (e.g., WDR and 401 WQC) prepared by the San Diego RWQCB, adopted the Findings of Fact (Findings) and Statement of Overriding Considerations (SOC), adopted the Mitigation Monitoring and Reporting Program (MMRP), and authorized District staff to file the Notice of Determination (NOD) for the Shipyard Sediment Remediation Project. At the same hearing, the Board also granted concept approval and authorized issuance of a non-appealable CDP (CDP-2013-06) to BAE Systems for the Shipyard Sediment Remediation Project. The CDP was issued on August 1, 2013. On September 24, 2013, the Board granted BAE Systems the First Amendment to CDP-2013-06, which modified Special Provisions 5 and 6 of the CDP but remained consistent with the Water Board's final adopted WDR and 401 WQC.

In a letter dated May 22, 2014, the San Diego Bay Environmental Restoration Fund – North has identified that remedial activity in the vicinity of the proposed project associated with the CAO will be completed prior to any dredging activity associated with the proposed project.[1]

1.2.1.3 Site Operations

BAE Systems provides services for both commercial and government customers and has serviced a myriad of commercial vessels including, but not limited to, cruise ships, tankers, barges, research vessels, reefer and container ships, and kelp cutters. The existing BAE Systems facility is used for non-nuclear ship repair, modernization, conversion, and overhaul in support of its primary customer, the US Navy.

BAE Systems is currently the prime contractor for five classes of US Navy vessels: CGs (Cruisers), DDGs (Destroyers), LPD-17 (Amphibious Transport Docks), LSD-41/49 (Dock Landing Ships), and MCMs (Mine Countermeasures). BAE Systems maintain Multi-Ship, Multi-Option (MSMO) contracts that include vessel berthing and drydocking.[2] These contracts may include pier-side repair, drydock repair, or both. The average number of ships moored and/or serviced at the BAE Systems facility ranges from 10 to 20 vessels per year. As shown on Table A, the vessel stay at the facility ranges from 11 days to 294 days, with an average stay of 89 days for drydock vessels[3] and 104 days for berthed vessels. To a lesser extent, BAE Systems performs pier-side and drydock repairs for commercial customers as well. Over the past five years, BAE Systems has accomplished an average of four drydockings per year.

The existing drydock is used to conduct repair and maintenance activity which cannot normally be conducted while the vessel is afloat. These activities generally include exterior hull repair, preservation (abrasive blasting and/or hydroblasting and painting), shaft repair, propeller and rudder repair, and repair/replacement of valves and fittings below the waterline. Ships are docked by lowering (submerging) and then raising the drydock by means of integral ballast

1 Letter from San Diego Bay Environmental Restoration Fund – North regarding Response to Comments on Permit Modification Letter (No. CDP-2013-06) San Diego Shipyard Sediment Site – North Shipyard, May 22, 2014.
2 In certain cases, a particular vessel may be worked on at US Naval Base San Diego or another local shipyard and not at the BAE Systems facility.
3 Not including short-duration small commercial vessels.

Table A: Average Vessels per Year at BAE Systems San Diego

Serviced Vessels (2010–2013)		
	Drydocked Vessels	Berthed Vessels
Average Ships Per Year	4	12
Minimum Number of Days	14	11
Maximum Number of Days	176	294
Average Number of Days	89	104

Source: BAE Systems (March 2014).

tanks, which take in and discharge seawater. Once the drydock is lowered a vessel is positioned within the dock. The drydock is then raised, raising the ship out of the water. Wastes generated during ship repair in drydock may include spent abrasive, paint, rust, petroleum products, marine growth and general refuse, all of which are contained and then transferred to shore facilities for disposal. Environmental protection related to drydock operations includes complete encapsulation of the vessel to prevent fugitive particulate emissions, stormwater collection, and zero discharge of industrial wastewater.

Water Quality Facilities

BAE Systems operates and maintains a Storm Water Diversion System (SWDS) to eliminate and/or reduce the volume of pollutants discharged to receiving waters (San Diego Bay). This system consists of 31 catch basins (drains) and associated piping, as well as secondary containment. The system is designed to capture at least the first 1.0 inch of storm water that has fallen upon the facility. Rain gauges are utilized to determine when 1.0 inch of rainfall has been achieved.

Following the first 1.0 inch of storm water recovery to the SWDS, remaining storm water may be redirected to San Diego Bay through nine outfalls enumerated SW1 through SW9. Visual observations and sample collection occur upon discharge to the receiving water. Collected storm water is held in 11 tank systems (DS1 through DS11) and is managed in accordance with the BAE Systems Industrial User Discharge (IUD) Permit issued by the City of San Diego. Once storm water is determined to meet IUD permit parameters, it is discharged to the sewer. Discharge to San Diego Bay may occur if on-site storage capacity is exceeded. San Diego Bay discharge requirements are delineated in Regional Board Order No. R9-2002-0161.

1.3 PORT MASTER PLAN DESIGNATIONS

The majority of the proposed project site is within the jurisdiction of the District and is located in Planning District 4 ("Tenth Avenue Marine Terminal"), Planning Subarea 43 (Belt Street Industrial) of the Port Master Plan (PMP). As illustrated in Figure 5, land uses at the proposed project site within Planning Subarea 43 include *Marine Related – Industrial* over the land portion of the proposed project site and *Specialized Berthing* over the water portion of the proposed

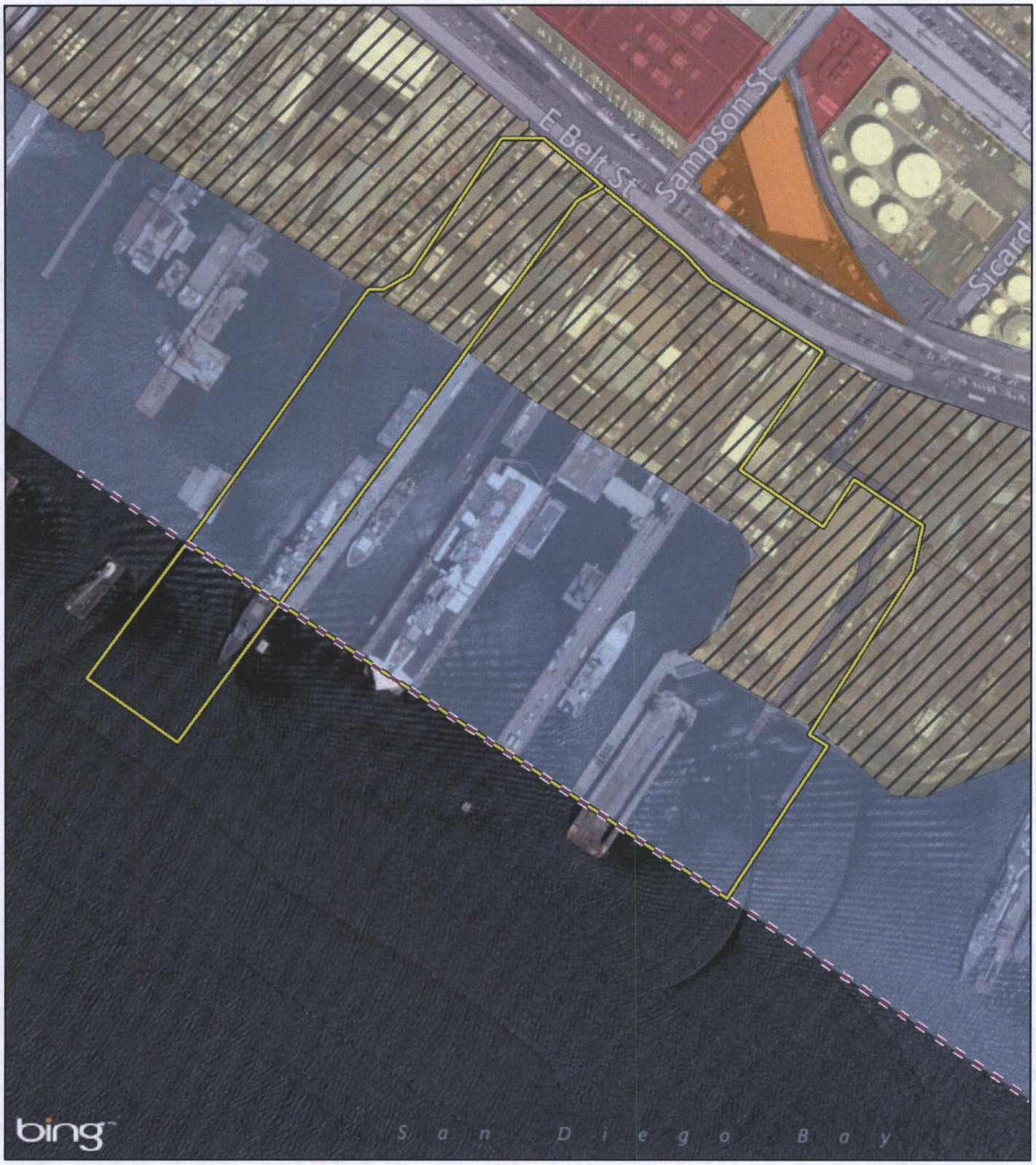

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FIGURE 5

LEGEND

Project Location

U.S. Pierhead Line

Port Master Plan

Marine Related - Industrial

Specialized Berthing - Industrial

City of San Diego General Plan

Industrial

Transportation

Utilities

Warehousing/Storage

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Pier 1 North Drydock Project

Existing Land Use Designations

SOURCE: Bing Maps (2012), City of San Diego (2010), Port of San Diego (2010)

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project site. Within the Marine Related-Industrial designation, the PMP calls for the modernization of existing marine-oriented facilities in order to reduce the need for future dredging or filling activities; however, the PMP does allow for dredging and filling in new areas under certain circumstances where alternative locations are infeasible or where curtailment of the project would result in adverse impacts to the public. Within the Marine Related-Specialized Berthing designation, the PMP allows for commercial and industrial uses, including ship building and repairing activities, water intake and discharge, and activities associated with the operation of drydocks. Because the proposed project includes the demolition of an existing pier-side berth and the construction of a new drydock, the proposed project would be consistent with the existing PMP and would not require a Port Master Plan Amendment.

Land to the east of the proposed project site is within the City of San Diego (City) and is currently designated in the City's General Plan as Industrial Employment and is zoned as Barrio Logan Planned District: SubDistrict D (BLPD-SUBD-D). Approximately 159,450 sf of water area west of the US Pierhead Line (outside District Jurisdiction) is held by the CSLC and is under the California Coastal Act jurisdiction of the CCC. Table B provides a summary of on-site and adjacent land use designations identified in the PMP.

Table B: On-Site and Adjacent Land Use Designations

Location	Current Land Uses	Port Master Plan Land Uses
On-site	Ship Repair	Marine Related – Industrial/Specialized Berthing – Industrial
North	Industrial/Marine Industrial	Marine Related – Industrial
South	Open Water	Marine Related – Industrial/Specialized Berthing – Industrial
East	Ship Repair	Marine Related – Industrial
West	Ship Repair	Marine Related – Specialized Berthing[1]

Source: San Diego Unified Port District, Port Master Plan (October 2012).
Note: Areas beyond (west) the US Pierhead Line are within the jurisdiction of the California State Lands Commission, a department of the Resources Agency of California. Based on information provided in the Resources Agency of California's *California's Ocean Resources: An Agenda for the Future* (March 1997), the areas within California State Lands Commission jurisdiction are designated at "State Tidelands and Submerged Lands." State Tidelands and Submerged Lands are defined as the area from the shoreline to three (3) nautical miles offshore.

3.2 Project Purpose and Objectives

The future needs for drydocking of US Naval vessels positioned in San Diego exceeds current drydock capacity. The purpose of the proposed project is to (1) increase BAE Systems' drydock capacity to facilitate required maintenance of existing and future US Naval assets and (2) provide additional capacity for commercial vessel drydock needs that cannot currently be met by existing drydock capacity.

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The proposed project objectives include the following:

- Construct and operate shipyard repair facilities that maximize the use of existing waterways, available shoreline, and existing land;
- Retain and expand current ship repair business operations by BAE Systems, in order to provide economic and employment benefits to the District and the San Diego region;
- Modernize the BAE Systems shipyard by providing a new drydock facility, including associated improvements, and ship repair services, to meet the needs of the current and anticipated ship fleet of military and commercial customers;
- Invest in new shipyard infrastructure that will enhance the short- and long-term attractiveness and viability of San Diego Bay and the region to military and commercial ship operators for construction and repair;
- Impose current terms of the SDG&E TUOP that require removal of the cooling tunnels;
- Ensure the long-term health, safety, and sustainability of the project site and surrounding tidelands area by removing the SDG&E cooling tunnels in a manner that minimizes environmental impacts, including the potential to release hazardous materials into the environment; and,
- Obtain real estate agreement(s) necessary to achieve the aforementioned project objectives.

1.4 Project Characteristics

The proposed project consists of two major phases – Phase 1 and Phase 2. Phase 1 includes the installation of the floating drydock component and the proposed BAE Systems real estate agreement component. Extensive preliminary design studies and schematic plans have been developed for the floating drydock component and details associated with the proposed real estate agreement component are known.

Phase 2 includes the cooling tunnels component of the proposed project. Although the proposed project would result in the ultimate removal of the cooling tunnels, at this time, the funding, phasing, timing, and design details of the cooling tunnels removal are only known at a conceptual level of detail. However, this analysis is based on all known data and facts, as well as reasonable investigations regarding the tunnels and project site.

1.4.1 Proposed Improvements

The proposed project would provide for the current and anticipated drydocking needs of BAE Systems, extension of its existing lease term based on its investments in the leasehold, a future real estate agreement on the neighboring TUOP parcel (2-acre landside and 4-acre waterside), and the eventual removal of the underwater intake/discharge tunnels and surface improvements on the TUOP parcel. These project components are summarized below.

1.4.1.1 Floating Drydock and Associated Activities/Improvements

The proposed drydock would be located on the north side of existing BAE Systems Pier 1 and would extend onto the neighboring TUOP parcel and approximately 350 ft west into CSLC jurisdiction. The drydock component of the proposed project includes dredging activities (the extent of dredging is illustrated in Figure 6), the installation of the drydock, a sheet pile protection wall along the existing Pier 1 north, over-water structure(s) (apron ramp wharves [south] and the future north ramp wharf and intermediary wharf structure), two new mooring dolphins (one stand-alone and one integrated into the existing Pier 1 structure) and expansion of one existing mooring dolphin, and installation of utilities as detailed in Figure 7. Figure 8 depicts before and after proposed project conditions for the proposed Pier 1 drydock component. A more detailed description of the proposed drydock and associated improvements is provided as follows.

- **Underwater Improvements.** To prevent undermining of the existing Pier 1, the proposed project will include an underwater wall and cantilevered king pile installation. These underwater improvements will allow for dredging adjacent to the pier without adversely impacting the strength and integrity of the pier, which will continue to moor large US Navy vessels on the south side of that pier. The overall length of these underwater improvements is approximately 700 ft from the US Bulkhead Line[1] to the US Pierhead Line.[2]
- **Dredging.** Dredging is planned to provide sufficient water depth to submerge the floating drydock. The drydock will require a Bay bottom elevation of -65 ft Mean Lower Low Water (MLLW). Additionally, to provide a route to enter the drydock, some minor dredging may be required between the end of the dock and the Bay channel as illustrated in Figure 6. The majority of the dredging is located east the US Pierhead Line within District tidelands. Dredging west of the US Pierhead Line is within the jurisdiction of the CSLC and the CCC.

  Based on preliminary bathymetric survey data, dredging is anticipated to generate approximately 395,000 cubic yards (cy) of sediment. Following testing and approval by the USACE and the US Environmental Protection Agency (EPA), the sediment would be disposed of by barge at the EPA approved ocean disposal site commonly known as LA-5, which is located approximately 13 miles west from the proposed project site.

  Any sediment not approved for ocean disposal or beneficial reuse will be disposed of outside of tidelands (upland) at an appropriately permitted landfill. Any sediment designated for upland disposal will be tested, characterized, and profiled for disposal approval. For purposes of this analysis, it is anticipated that between 2,500 and 10,000 cy (3,500–14,000 tons) of dredge material would require treatment and upland disposal. This figure is based upon preliminary testing which determined that approximately 2,500 cy of dredge material will not be suitable for ocean disposal or beneficial use.[3] The 10,000 cy figure is a

[1] The US Bulkhead Line refers to a line marking the limit to which piers or wharves may project along a waterfront.
[2] The US Pierhead Line refers to a line delineating the limit of jurisdiction of the San Diego Unified Port District.
[3] Amec. *Draft Pier 1 North Drydock Project Hazards and Hazardous Materials Technical Report, BAE Systems San Diego Ship Repair, San Diego, California*. January 2015 (Appendix D of this EIR).

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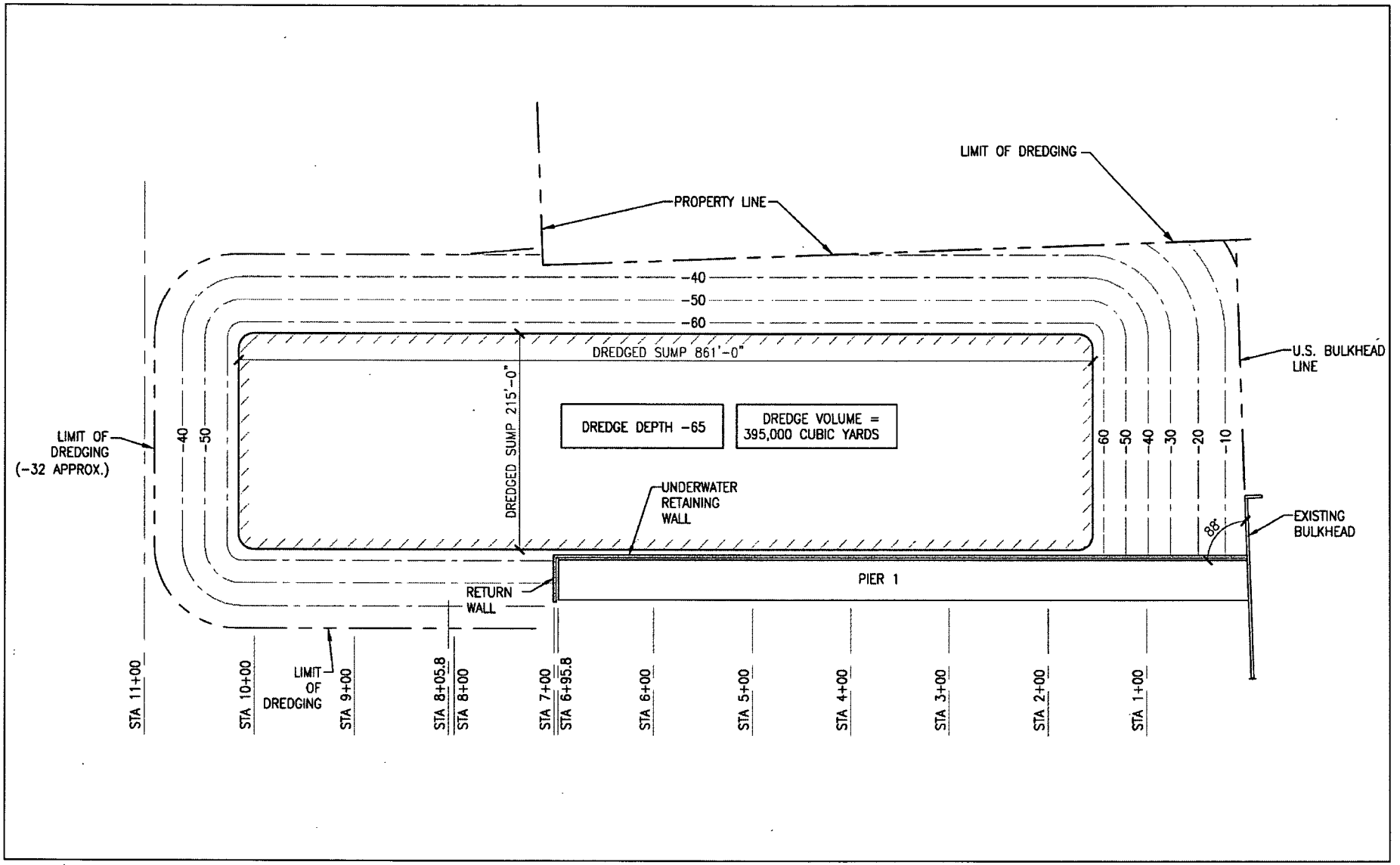

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FIGURE 6

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SOURCE: BAE Systems

Pier 1 North Drydock Project

Conceptual Design – Proposed Dredging Depths

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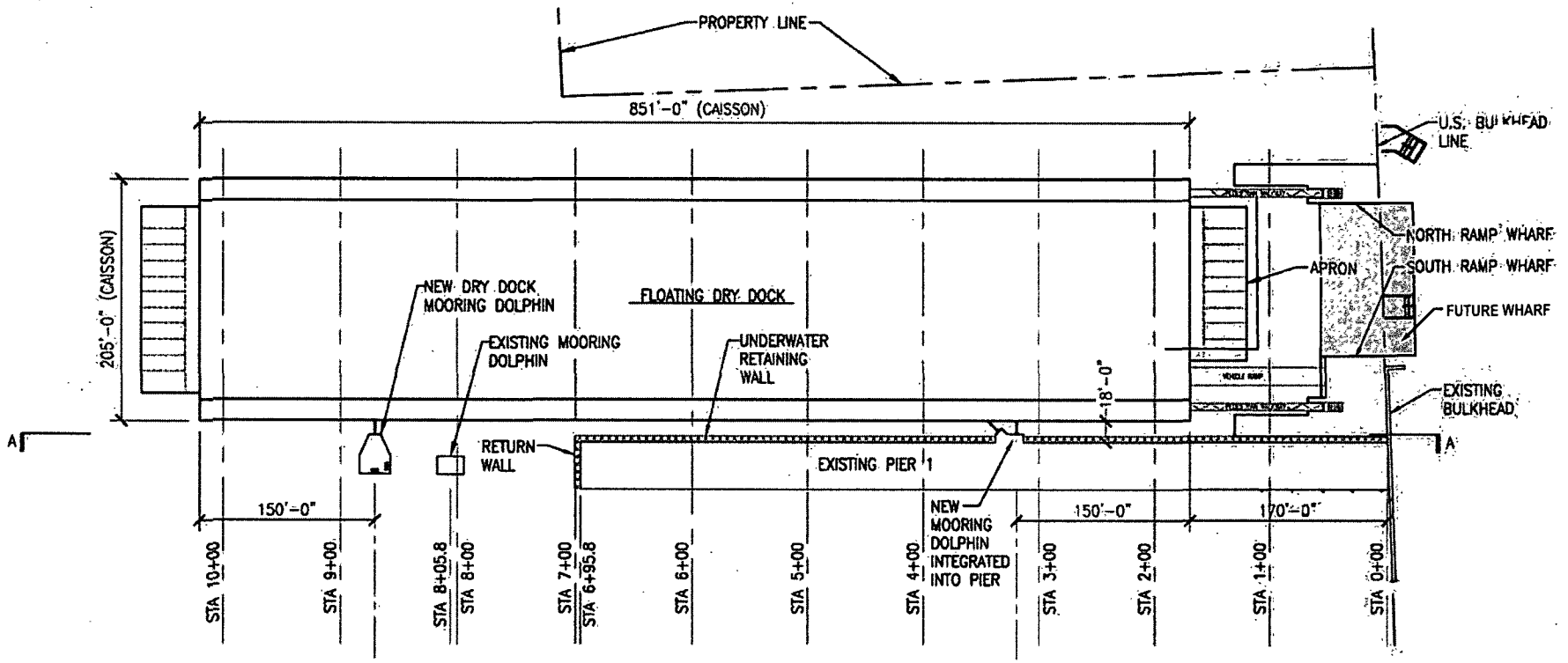

FIGURE 7

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SOURCE: BAE Systems

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Pier 1 North Drydock Project

Conceptual Design – Proposed Site Plan

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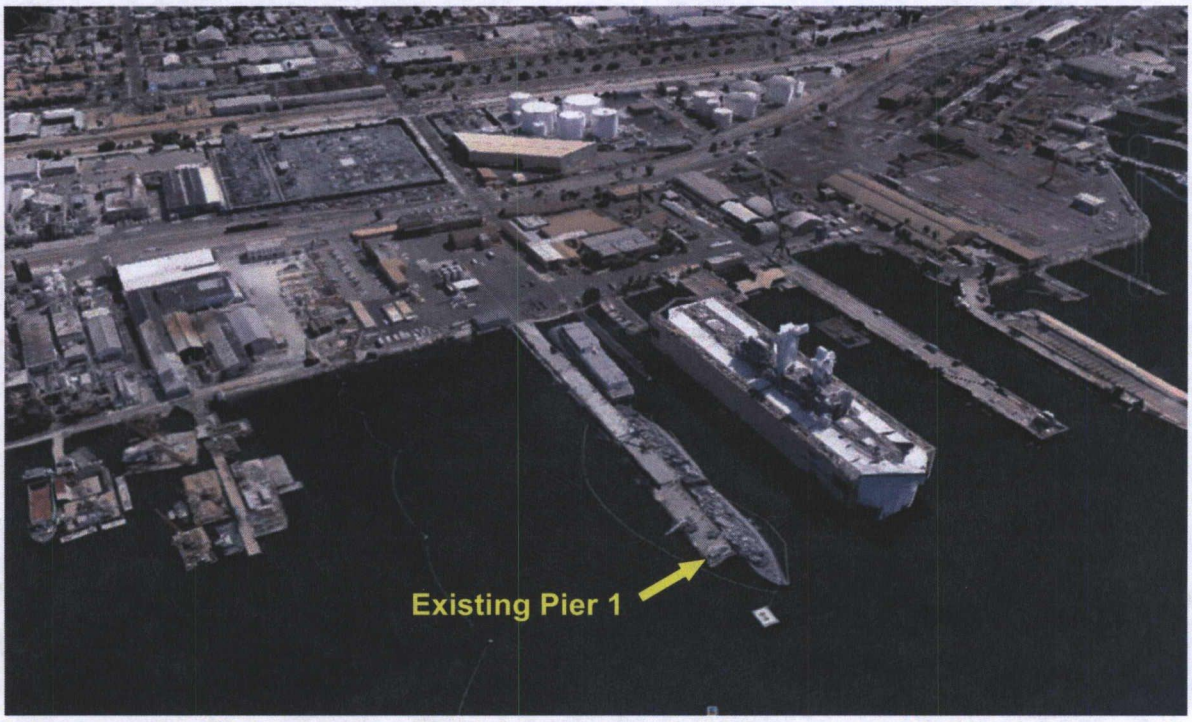
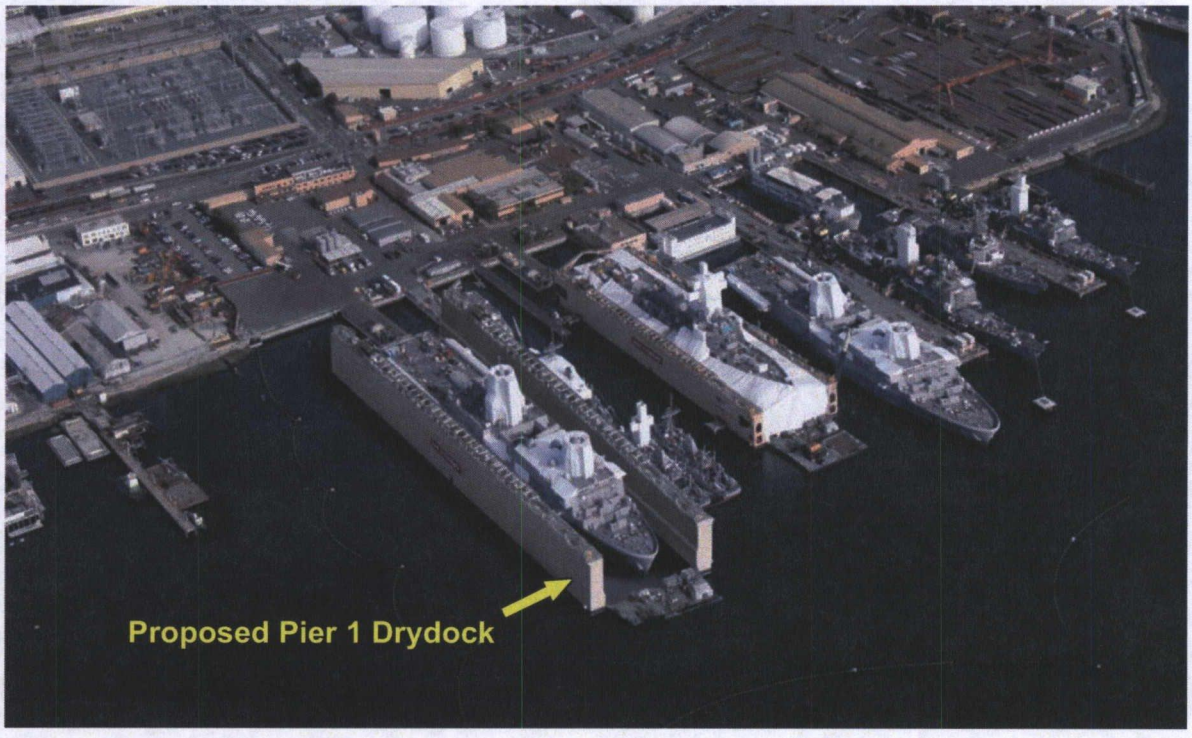


Existing



Post Project

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FIGURE 8

Pier 1 North Drydock Project

Drydock Component Existing and Proposed

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worst-case condition that is four times the expected dredge quantity based on preliminary testing. The actual cubic yardage of dredge material required for upland disposal will be determined prior to project dredging activities, but following completion of remediation dredging in the area. Should upland disposal for any sediment become necessary, the proposed disposal site is Otay Landfill, located at 1700 Maxwell Road in Chula Vista. Alternative landfills may also be considered. In the event that sediment testing determines that any portion of the dredge spoils are hazardous, those materials would require transport to a hazardous waste facility (a Class I facility). The nearest Class I disposal facility to the project site is the Buttonwillow Landfill located in Buttonwillow, California, approximately 250 miles north.

In addition to the dredged sediment that is proposed for ocean and upland disposal, some portion of the dredged sediment may be utilized for beneficial reuse in San Diego Bay or a near-shore ocean environment. Specifically, as described further in Chapter 6.0, Alternatives, there are two potential beneficial reuse sites: the Northern and the Southern Alternative Mitigation Sites. The Northern Alternative Mitigation Site is located south of the Sweetwater River Flood Control Channel within the San Diego Bay National Wildlife Refuge, and the Southern Alternative Mitigation Site is located further south and adjacent to a channel within the District.

- **Ramp Wharf.** A ramp wharf designed for accessing the drydock is proposed adjacent to and westward of the bulkhead and would extend from approximately the current bulkhead line to 125 ft into the Bay. The ramp wharf will be constructed of three independent structures with the northernmost structure measuring approximately 125 by 35 ft, the intermediary structure measuring approximately 134 by 76 ft, and the southernmost structure measuring approximately 125 by 70 ft, with a combined total area of approximately 22,088 sf (including pedestrian and vehicle ramps). However, because the removal of the cooling tunnels is anticipated to occur after construction of the drydock, and due to the location of the tunnel openings relative to the proposed ramp structures, the future northern ramp wharf and intermediary structure will not be constructed until the cooling tunnels are removed. Construction of the future northern ramp wharf and intermediate structure after the cooling tunnel removal will ensure that improvements associated with the drydock do not need to be disturbed and/or removed to access the tunnels. The drydock can operate in the interim with only the southernmost ramp wharf installed. The ramp wharf structures will be designed to support heavy vehicle and equipment loads and constructed of a reinforced concrete deck supported by precast concrete piles will be anchored along the shoreline. The elevation of the wharf will be approximately +13 ft MLLW. This elevation is 12 inches higher than existing piers at the BAE Systems site and has been designed to account for some rise in sea level.

  The ramp wharf decks will be a composite structure consisting of precast planks topped with cast-in-place reinforced concrete and reinforcing bar. The deck support system will require pile driving and will consist of both vertical and batter piles. The batter piles will provide lateral resistance to seismic loads. Along the perimeter of the ramp wharf a concrete curb will be constructed that will control storm water runoff and divert it to existing onshore stormwater collection facilities. Electrical conduits will be located within the pier deck and will

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be cast in place when the pier deck is poured. Other utility piping, such as mechanical and electrical will also be installed from the shore to the drydock. Additional information associated with the ramp wharf decks is provided under the construction subsection.

- **Mooring Dolphins.**[1] To accommodate the mooring of the proposed drydock, two mooring dolphins (one new and one retrofit) are proposed to be constructed approximately 344 ft and 890 ft offshore (west) of the US Bulkhead Line. Dimensions of each dolphin would be 26 ft by 33 ft in size and include a 4-ft thick concrete deck. Each dolphin will be supported by 24 concrete 24-inch octagonal piles and outfitted with two 100-ton double bitts. The square footage of the proposed new western drydock dolphin is 714 sf. The easternmost mooring dolphin is proposed to be retrofitted into the existing Pier 1 structure, adding approximately 194 sf of area. The new dolphins are necessary to provide a fixed mooring structure to secure the drydock. One of these dolphins is in the CSLC jurisdiction, and an amendment to the existing BAE Systems CSLC Lease may be needed. The existing western Pier 1 mooring dolphin will be expanded from an existing area of 345 sf to 483 sf (for a total increase of 138 sf). This expansion entails the installation of three additional 24-inch octagonal piles on the south side of the mooring dolphin. Pile driving will occur as part of the mooring dolphin construction.
- **Floating Drydock.** Installation of a new floating drydock approximately 205 ft in width and 851 ft in length (174,455 sf in total) plus aprons (approximately 16,165 sf in total) attached to the drydock on each end. It is anticipated that the majority of the drydock would be assembled off site. However, there will be some additional drydock assembly work occurring once the drydock is towed in to the shipyard. In a typical year, it is anticipated that two DDG-class vessels, one LPD-class vessel, one CG-class vessel and one LCS-class vessel may utilize the drydock.
- **Utilities.** Electrical and mechanical utilities to support the drydock are similar to the types and capacities currently utilized within the existing shipyard. The proposed electrical utilities include:
    - A 12,000-volt, 500-amp feeder cable to the proposed new wharf;
    - New load interrupt switches for the distribution of the 12,000-volt circuit;
    - Shore and pier 480-volt and 208/110-volt distribution systems including 400-amp shore power mounds on the shore at two locations for barges and for ship repair operations;
    - Convenience receptacles on shore and on the pier and power to new infrastructure where needed (storm water collection systems, etc.)
    - Shore and pier lighting, including pole lights and imbedded light fixtures in the wharf structure, that will be located on the shore and wharf; and,
    - Shore and wharf data, telephone and television systems for use by vessels in drydock.

[1] A mooring dolphin is a manmade marine structure that extends above the water level and provides a fixed structure at which to moor ships when the ship length exceeds the length of the berth or pier.

The proposed mechanical utilities for the proposed project are detailed in Table C and are further described below:

Utility and mechanical services necessitating piping would be installed underground or in trenches that extend from their existing systems at various locations on shore. These piping systems will be routed to penetrate the shoreline and run to the wharf where they will be mounted on the side and underside of the wharf. Some electrical conduits will also run under and through the wharf.

Expansion joints will be installed where appropriate. For each service, single or manifold type service risers may be installed for servicing messing/berthing barges moored alongside the drydock. All risers will be rugged, corrosion-resistant and outfitted with steel guards. Each point of connection will be a valve suitable for the service and location. Branches for electric service, salt water, potable water and sewage will be installed for provision to barge berths.

Table C: Mechanical Utilities

System	Location	Size (inches)	Material
Saltwater[1]	Drydock	10	Galvanized Steel
Potable Water	Existing Infrastructure	4	Steel, FBE
Compressed Air	Existing Infrastructure	8	Steel, FBE
Sewage[2]	Sewage discharge piping from the drydock to the existing City of San Diego sewer service	4	Fiberglass
Stormwater	New stormwater diversion tanks, piping, and drain inlets	3 and 4	PVC
Natural Gas	Existing Infrastructure	3	Steel, FBE
Carbon Dioxide	Weld shielding gas tanks (CO_2 and Argon) will be located on the wharf	3/4	Rental tanks and coated aluminum hose
Argon	Weld shielding gas tanks (CO_2 and Argon) will be located on the wharf	3/4	Rental tanks and coated aluminum hose
Telecommunications/Cable	--	--	--
Fire Hydrant Supply	--	6-inch	--

Source: BAE Systems (2014).
[1] Saltwater system allows for repair work to be done to saltwater system piping on ships while docked at the facility. The system saves electricity and eliminates water discharged into the San Diego Bay.
[2] Sewage system is to accommodate pumping sewage holds from the vessels docked at the drydock.
CO_2 = carbon dioxide
FBE = fusion-bonded epoxy
HDPE = high density polyethylene
PVC = polyvinyl chloride

Stormwater that falls on the wharf and adjacent shore will be captured in tanks and disposed of in a controlled manner. Wharves and finished grades will be designed to lead stormwater into drainage piping that leads into sumps that will pump the water into stormwater collection tanks and managed in accordance with the BAE Systems Industrial User Discharge Permit.

Two weld shielding gas systems (carbon dioxide and argon) will be installed to service the ship repair work in drydock. Both systems will emanate from tanks onshore or on the wharf.

- **Bay Coverage and Shading.** The proposed drydock ramp wharves (including the intermediary wharf structure) will be constructed of concrete, supported by concrete pier piles and anchored along the shoreline. These structures would extend from approximately the current bulkhead line 125 ft into the Bay. The surface area of the proposed drydock ramp wharves, intermediary structure, and vehicle ramp and pedestrian walkways is 22,088 sf. The square footage of the proposed western drydock mooring dolphin is 714 sf, the proposed retrofitted mooring dolphin is 194 sf, and the proposed expanded mooring dolphin is 138 sf. Together with the proposed drydock, the proposed project would shade approximately 213,754 sf of San Diego Bay in the location where vessels currently berth.

1.4.1.2 BAE Systems Real Estate Agreements

BAE Systems currently leases approximately 9.8 acres of land and 16.6 acres of water from the District. This lease is scheduled to expire on August 31, 2034. Based on its investments proposed as part of the proposed project, BAE Systems proposes to extend the lease term of its existing leasehold with the District. This action will require an amendment to the existing lease term by 24 years, extending the year of expiration to 2058. Additionally, BAE Systems proposes to lease, on a long-term basis, the approximately 2-acre (landside) and 4-acre (waterside) parcel currently leased (5-year term) by the District to BAE Systems through a TUOP set to expire on October 31, 2019. This action will require terminating the TUOP and adding an amendment to the existing lease term by 43 years, extending the year of expiration to 2058. The lease amendment for the TUOP parcels would roll the approximately 2-acre (landside) and 4-acre (waterside) parcel into the BAE Systems' leasehold area. As a result, BAE Systems will ultimately be leasing approximately 11.8 acres of land area and approximately 20.6 acres of water area from the District. This component would result in the continuation of existing uses, as permitted, on the existing leasehold and neighboring TUOP parcels.

1.4.1.3 Removal of Cooling Tunnels

Two sets of intake/discharge cooling tunnels that were previously installed by SDG&E and used by the former SDG&E Silvergate Power Plant currently exist beneath the TUOP parcel. As previously stated, the underground tunnels traverse underneath properties owned by Kelco, Burlington-Northern Santa Fe railroad and the District and underneath the Belt Street right-of-way. The portion of the cooling tunnels within the District's jurisdiction stretch from the south curb of Belt Street to the San Diego Bay and consists of approximately 490 ft of intake tunnels and approximately 450 ft of discharge tunnels. Outside the District's boundaries, the tunnels traverse for an additional 250 ft underneath the Belt Street right-of-way and the Burlington-Northern Santa Fe railroad properties. The proposed project includes the removal of the cooling tunnels within the BAE Systems leasehold. The timing for the removal of the tunnels is unknown; however, removal of the tunnels will occur after the installation of the drydock and southern ramp wharf. As noted above, construction of the future northern ramp wharf and intermediate structure would occur after the cooling tunnel removal to ensure that access to the

tunnels to remove them is adequately provided. Please refer to Figure 4 for the location of the existing cooling tunnels.

The removal of the cooling tunnels would require excavation of soil, dewatering, installation of shoring to protect the excavation, installation of a coffer dam, demolition and removal of tunnels (concrete) and backfill with clean structural fill. Soil and groundwater characterization would be performed and potential remediation may also be conducted. Disposal of the soils, if required, would be at the appropriate landfill facilities depending on the sediment characterization. Numerous structures, equipment and operating systems are located over the tunnels. Temporary relocation of these structures and uses are anticipated.

1.4.2 Construction Activities and Schedule

1.4.2.1 Floating Drydock and Associated Activities/Improvements

Upon completion of the design and permitting phase, the drydock component of the proposed project consists of six phases of construction: (1) Pier 1 North submerged wall, (2) Retrofitting of existing Pier 1 mooring dolphin, (3) upland dredging, (4) ocean dredging (5) wharf and mooring dolphin construction, and (6) shoreline and utilities construction. Construction for the drydock component of the proposed project is scheduled to begin in 2016 and projected to be completed in 2017. Project construction-related truck traffic to and from the site during construction would occur along Harbor Drive south to I-15 or Civic Center Drive for in and outbound routes. Construction deliveries will be directed not to traverse the local Barrio Logan neighborhood and will be specified in the project's construction documents and in the proposed District-issued CDP.

Construction equipment anticipated for Phase 1 include a floating crane barge, 80-ton land based crawler crane, two deck barges for delivery and storage of materials, one tug boat, trucks for delivery of sheetpile and construction materials, forklifts for on-pier support, a drilling rig, impact hammer, and vibratory hammer. Construction equipment for the installation of the mooring dolphins and ramp wharves include a crane to drive concrete piles, concrete trucks for pouring concrete structures, trucks to deliver construction materials (rebar, tools, equipment), and an impact hammer.

Table D identifies construction details, including the duration of each phase and crew size and Table E provides the anticipated construction schedule. A description of each phase of work for the drydock component follows.

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Table D: Construction Phases

Phase	Duration[1] (20 Working Days Per Month)	Crew Size Per Day	Number of Total Trucks Per Phase
Phase 1: Pier 1 North Submerged Wall	8 months	20 people	38
Phase 2: Retrofit of Existing Pier 1 Mooring Dolphin	1 month	6 people	17
Phase 3: Dredging (Upland Disposal)	1 month	10 people	610
Phase 4: Dredging (Ocean Disposal)	6 months	8 people	N/A
Phase 5: Wharf and Mooring Dolphin Construction	6 months	20 people	72
Phase 6: Shoreline and Utilities Construction	3 months	15 people	24

Source: BAE Systems (August 2014).
[1] Durations are "time of task" rather than start-to-finish dates.
N/A = not applicable

Table E: Construction Schedule

Phase	Approximate Schedule
Pier 1 North Submerged Wall Construction	January 2016 – August 2016
Dredging	September 2016 – March 2017
Wharf and Mooring Dolphin Construction	October 2016 – March 2017
Shoreline and Utilities Construction	January 2017 – March 2017
Drydock arrives to project site	March 2017
Drydock Testing and Outfitting	March 2017 – May 2017
Drydock Operational	June 2017

Source: BAE Systems (August 2014).

Phase 1: Pier 1 North Submerged Wall

The first element of construction consists of the installation of an underwater wall adjacent to Pier 1 to enable the sump to be dredged to a depth of –65 ft MLLW. The existing fender pile and whaler system on the north side of Pier 1 will be demolished in way of the new under water retaining wall. Approximately 21 tons or 600 linear feet of double 12-inch treated timber fender material will be removed and disposed.[1] It is anticipated that this material may be reused on site for repair/maintenance of existing/replacement fender systems. However, if the timber requires disposal, an additional 3 to 4 truckloads would be taken to the Otay landfill for disposal.

The existing timber fender system also consists of approximately 75, 14-inch steel H-piles driven approximately 15 ft into the Bay bottom. These H-piles, once removed, may also be

[1] BAE Systems, August 2014. A total of 35 pounds per linear feet of timber = 21 tons of timber to be removed and disposed.

reused on-site for repair/maintenance of existing/replacement fender systems. If the H-piles are unusable, they will be transported to a local scrap company and recycled as scrap metal. This would require an additional 8 to 10 trucks trips to the local scrap company for disposal.

Overall, this phase is anticipated to require a 20-person workforce and 38 trucks over approximately 8 months. However, a worst-case assumption of 38 truck trips over the entire phase has been included in the traffic analysis as this would still equate to less than 1 truck trip per day, on average, during the 8-month phase.

Phase 2: Retrofit of Existing Pier 1 Sections and Mooring Dolphin

The demolition of two sections of the existing Pier 1 deck would occur in order to provide clearance for the retrofitted eastern mooring dolphin concrete piles. The demolition/concrete disposal volumes for the existing two sections of the existing Pier 1 are identified in Tables F and G, below.

Table F: Pier 1 Mooring Dolphin Concrete for Disposal

Component	Length (feet)	Quantity	Pounds/Foot	Weight (tons)	Volume (cy)	Number of Trucks
20-inch Square Pile	70	8	418	117.2	57.8	5.1
Dolphin Cap	15 x 23	345	150	25.9	12.8	1.1
			Total	143	71	7

Source: BAE Systems (August 2014).
cy = cubic yards

Table G: Pier 1 Sections Concrete for Disposal

Component	Width (feet)	Length (feet)	Volume (cubic feet)[1]	Weight (tons)	Volume (cy)	Number of Trucks
Pier 1 Sections	30	40	3,000	225	111.1	9.8
			Total	225	111.1	10

Source: BAE Systems (August 2014).
[1] Concrete weight by cubic foot = 150 pounds.

Based on the tables above, the demolition activities associated with the removal of the existing two sections of the existing Pier 1 would result in a total of 368 tons of material that would require approximately 17 haul trucks for disposal.

Overall, this phase is anticipated to require a 6-person workforce and 17 trucks over approximately 1 month.

Phase 3: Dredging (Upland Disposal)

Upland disposal of the soils during dredging, if required, would be at the appropriate landfill facilities depending on the sediment characterization. As previously stated, for purposes of this analysis, it is assumed that no more than 10,000 cy (14,000 tons) of dredge material will require dredging, transport and disposal upland to the Otay Landfill in Chula Vista[1]. Assuming a carrying capacity of 23 tons per truckload, approximately 610 truckloads would be required for upland disposal of these dredged materials. The preferred truck route to Otay Landfill is Interstate 5 south, to State Route 54 east, to Interstate 805 south.

It is estimated that upland dredging would take approximately one month to complete. Dredging equipment would include the dredge crane barge, two dredge barges (scows), a large excavator for mixing cement into the dredge material within the dredge scow and for offloading dredge material into trucks, and other miscellaneous equipment. During disposal days (anticipated to be 17 days during the month), approximately 30 to 40 trucks would be required to haul off the treated dredged sediments. In addition, approximately 35 cement trucks will be required to dry all of the upland dredge material. The cement trucks would arrive on approximately 5 to 6 separate days during this period. Approximately 10 workers will be on site each day that this dredging is being conducted.

Overall, this phase is anticipated to require a 10-person workforce and 610 trucks over approximately 1 month.

Phase 4: Dredging (Ocean Disposal)

It is anticipated that the vast majority of dredged sediment will be found suitable for unconfined aquatic disposal (SUAD). As such, none of the SUAD dredge material would be transported upland in trucks. This dredge material is expected to be approved for disposal at the EPA LA-5 Ocean Disposal Site located approximately 7 miles off shore. The same or similar dredge crane barge used for upland disposal would be utilized for ocean disposal. In addition, a digging bucket (clam shell) would be required, as the majority of the material is native and therefore, more difficult to dredge.

Tug boats will be used to transport this dredged material (barge scows) to the ocean disposal site. A single tug boat and escort vessel will be required for each trip. Approximately 132 vessel round trips will be required to move 395,000 cy (assumes a carrying capacity of 3,000 cy per scow). It is estimated that this dredging will take 6 months to complete. Approximately eight workers will be required each day to support this dredging.

Overall, this phase is anticipated to require an 8-person workforce with no trucks over approximately 6 months.

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[1] AMEC. *Pier 1 North Drydock Project Hazards and Hazardous Materials Technical Report, BAE Systems San Diego Ship Repair, San Diego, California*, January 2015 (Appendix D of this EIR).

Phase 5: Wharf and Mooring Dolphin Construction

Ramp Wharves. Ramp wharves designed for accessing the drydock is proposed adjacent to and westward of the bulkhead. The ramp wharves will be made up of three independent structures with the northern most structure measuring approximately 125 by 35 ft, the intermediary structure measuring approximately 130 by 49 ft, and the southernmost structure measuring approximately 125 by 70 ft with a combined total area of approximately 22,088 sf (including pedestrian and vehicle ramps). The construction of the future northern ramp wharf and intermediary wharf structure will occur after the removal of the cooling tunnels. A total of eighty-four 24-inch concrete octagonal vertical and batter piles are anticipated to be required to support the two new ramp wharves (36) and intermediary structure (48).

Mooring Dolphins. New concrete structures will be installed for the purposes of mooring the new drydock. The concrete structures consist of a concrete deck supported by an array of vertical and battered piles. The western mooring dolphin will consist of a new free-standing structure situated approximately 150 ft west of the US Pierhead Line. This mooring dolphin is expected to consist of twenty-six 24-inch octagonal concrete piles driven 35 to 45 ft beyond the dredged elevation. The piles will support a concrete deck of approximately 6 to 8 ft of thickness. The eastern mooring dolphin will be constructed such that it is retrofitted (i.e., integrated) into the deck of the current Pier 1. This will involve the demolition of two sections of the deck to provide clearance for the installation of approximately twenty 24-inch octagonal concrete piles. The existing western mooring dolphin will include an expansion requiring the installation of three additional 24-inch octagonal piles on the south side of the mooring dolphin.

Overall, this phase is anticipated to require a 20-person workforce and 72 trucks over approximately 6 months.

Phase 6: Shoreline and Utilities Construction

Installation of the proposed drydock will result in the reduction of an existing vessel berth (Pier 1 North), such that there is a relatively minor increase in net utility demand. The electrical and mechanical utilities for this project will be similar to the existing systems found at the BAE Systems' shipyard as well as on most heavy-duty piers that service US Navy and commercial ships. It is anticipated that on-shore utilities will require a 15-person workforce with 24 total trucks over approximately 3 months.

BAE Systems Real Estate Agreements: As previously stated, BAE Systems currently leases approximately 9.8 acres of land and 16.6 acres of water from the District. This lease is scheduled to expire on August 31, 2034. Based on its investments proposed as part of the proposed project, BAE Systems proposes to extend the lease term of its existing leasehold with the District by 24 years. Additionally, BAE Systems proposes to lease, on a long-term basis, the TUOP parcel currently leased (5-year term) by the District to BAE Systems. The TUOP between the District and BAE Systems is set to expire on October 31, 2019. The long-term lease may include, but would not be limited to, an amendment to BAE Systems existing lease. No changes in existing uses on the TUOP parcel are anticipated to occur and would be leased, on a long-term basis, to BAE Systems through a real estate agreement for a continuation of those uses

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once the existing TUOP between the District and BAE Systems expires in October 2019. No construction activities are anticipated or associated with the real estate agreements between the District and BAE Systems.

Removal of Cooling Tunnels: As previously stated, the removal of the cooling tunnels would require excavation of soil, dewatering, installation of shoring to protect the excavation, installation of a coffer dam, demolition and removal of tunnels (concrete) and backfill with clean structural fill. In addition, numerous structures, equipment and operating systems are located over the tunnels. Temporary relocation of these structures and uses are anticipated. There are no project-level details available at this time that identifies the demolition/removal scheduling or phasing for this component. For purposes of this analysis, it is assumed that a total of 490 ft of intake tunnels and 450 ft of discharge tunnels would be removed within the District's jurisdiction.

1.4.2 Operational Activities

Floating Drydock and Associated Activities/Improvements: Drydocks are used to conduct repair and maintenance activity which cannot normally be conducted while the vessel is waterborne. These activities generally include exterior hull repair, preservation (abrasive blasting and/or hydroblasting and painting), shaft repair, propeller and rudder repair, and repair/replacement of valves and fittings below the waterline. These activities are currently conducted within the existing POSD drydock at the site. While numerous industrial processes are currently conducted at the existing Pier 1 North berth on the same classes and types of vessels, some of those processes are more extensive once the vessel is dry-berthed, as opposed to wet-berthed (e.g., pierside verses in drydock). In addition, BAE Systems currently subcontracts hull preservation to several local contractors.

Implementation of the drydock component would result in a need for additional employees on the BAE Systems facility. For purposes of this analysis, it is anticipated that an addition 25–30 workers may be required for a large hull preservation job (abrasive blasting and painting). An additional 40–50 workers may be needed for other drydock operations related to hull repair, welding, and mechanical repair. It is also expected that additional project management requirements will add two to three BAE Systems ship superintendents to manage this ship repair and maintenance work and that as many as ten additional customer-related staff will visit the site as a result of the drydock operation. Therefore, a total of 77 to 93 new employees are anticipated to be required with implementation of the drydock. These new employees will be staggered throughout the three existing work shifts at BAE Systems. Table H provides the distribution of potential new employees among the three work shifts.

Table H: Drydock Employment Distribution

Work Type	Number of New Employees/Visitors	1st Shift (6:00 a.m. – 2:30 p.m.)	2nd Shift (2:30 p.m. – 10:30 p.m.)	3rd Shift (10:30 p.m. – 6:00 a.m.)
Hull Preservation (subcontractor)[1]	25–30	19	9	2
Welding, Machinery, Other Drydock Operations (BAE Systems)[2]	40–50	32	15	3
Project Management (BAE Systems)[3]	2–3	3	0	0
Customer Visits	10	10	0	0
Total	77–93	64	24	5

Source: BAE Systems (August 2014).

1 Hull preservation activities (blasting and painting) are conducted primarily during the daylight hours and generally follow the shipyards work shifts (65 percent, 1st shift; 30 percent, 2nd shift; and 5 percent, 3rd shift).

2 Worker distribution for these activities is anticipated to be consistent with existing shipyard work shifts (65 percent, 1st shift; 30 percent, 2nd shift; and 5 percent, 3rd shift).

3 Ship superintendents are anticipated to all work during the 1st work shift.

Operational Parking and Traffic. BAE Systems currently controls 1,304 parking spaces for use by employees, subcontractors, customers, and visitors. As previously discussed, the drydock component will not substantially modify the existing numbers and types of ships currently utilizing the BAE Systems facility. Based on the above increase in shipyard personnel, it is anticipated that operation of the drydock will require 64 additional parking spaces on 1st shift, 24 spaces on 2nd shift, and 5 spaces on 3rd shift. Based on information provided by BAE Systems, 20 percent of employees currently utilize an alternative means of transportation such as bus, trolley, and/or carpool. BAE Systems currently subsidizes 10 vanpools, with each van having an 11-person capacity with an average ridership of 7 per van during the first shift. In addition, BAE Systems runs a shuttle to and from the Barrio Logan Trolley Station during the first shift, with a ridership of 40 to 55 persons each day, and many more walking to the facility when the vans are full. Bicycle racks and motorcycle parking are also available at BAE Systems and are utilized by 40 to 50 persons each day during the first shift. Therefore, it is anticipated that 20 percent of the new employees will also utilize alternative transportation.

The expected additional 93 drydock employees as identified in Table H are assumed to follow the existing parking/traffic demographics, including assumptions on carpooling and municipal transportation (existing trolley and bus service). It is estimated that the siting of a new drydock at the BAE Systems shipyard could cause an increase of 93 one-way vehicle trips and parking spaces for all shifts. Those vehicle trips are anticipated to occur consistent with the shift differentials, which would equate to the following:

- 1st Shift: 64 vehicles arriving 5:30 a.m.–6:30 a.m. and departing 2:30 p.m.–3:00 p.m.
- 2nd Shift: 24 vehicles arriving 2:00 p.m.–2:30 p.m. and departing 10:00 p.m.–10:30 p.m.
- 3rd Shift: 5 vehicles arriving 10:00 p.m.–10:30 p.m. and departing 6:00 a.m.–6:30 a.m.

Operational Delivery Truck Traffic. BAE Systems' main distribution center/warehouse is located on Market Street near State Route 94 (SR-94). BAE Systems controls traffic flow for material deliveries to the site and only delivers materials when they are needed. Based on the

anticipated vessel repair work to be conducted within the proposed drydock, it is estimated that 1–2 additional delivery truck trips per week from the BAE Systems warehouse to the proposed drydock may be required. The truck route used by BAE Systems for site deliveries from its warehouse is Harbor Drive to 32nd Street/I-15 North.

BAE Systems Real Estate Agreements: Based on its investments proposed as part of the proposed project, BAE Systems proposes to extend the lease term of its existing lease with the District by 24 years. Therefore, it is assumed that operation of the proposed project would continue through the year 2058. Additionally, BAE Systems proposes to lease, on a long-term basis, the TUOP parcel currently leased (5-year) by the District to BAE Systems. The TUOP between the District and BAE Systems is set to expire on October 31, 2019. The long-term lease may include, but would not be limited to, an amendment to BAE Systems existing lease. No changes in existing uses on the TUOP parcel are anticipated to occur and would be leased to BAE Systems through a real estate agreement for a continuation of those uses once the existing TUOP between the District and BAE Systems expires in October 2019.

Removal of Cooling Tunnels: As previously stated, the removal of the cooling tunnels would require excavation of soil, dewatering, installation of shoring to protect the excavation, installation of a coffer dam, demolition and removal of tunnels (concrete) and backfill with clean structural fill. Once the removal of the cooling tunnels occurs, the project site would be restored to its existing condition. Therefore, no operational activities are associated with the removal of the cooling tunnels component.

1.5 Required Discretionary Actions and Permits

The District is the Lead Agency for CEQA and will be the certifying body for the EIR. The District will also issue the CDP and other entitlements for land and water areas within their jurisdiction. Outside of District jurisdiction, the CSLC and the CCC will issue permits for leaseholds within their jurisdiction. The following discretionary actions by the District are necessary for implementation of the proposed project:

- Certification of the Final Environmental Impact Report (UPD No. EIR-2014-31);
- Approval of the proposed BAE Systems Pier 1 North Drydock Project;
- Approval of a CDP for the portion of the proposed project in the District's jurisdiction;
- Approval of Engineering Plans; and
- Approval of lease amendment or other real estate agreements.

Various federal, State and local laws, regulations, and permit requirements will apply to the proposed project. Table I identifies potential required permits and approvals that would be required for the BAE Systems Pier 1 North Drydock Project.

Table I: Potential Permits and Approvals

Agency/Department	Permit/Approvals	Action Associated With or Required For
Federal Agencies		
US Army Corps of Engineers	Individual/Nationwide Section 404 Permit (CWA, 33 USC 1341)	Responsible for issuing Section 404 permits for dredged or fill material into waters of the US (up to higher high water line in tidal waters) and into wetlands in compliance with EPA regulations.
	Section 10, Rivers and Harbors Act Permit	Regulates construction, excavation, and deposition in navigable waters (up to mean high water in tidal waters).
	Marine Protection, Research, and Sanctuaries Act of 1972, Section 103	Regulates dumping and transport for dumping of material into US waters.
	40 CFR, Part 227 – Criteria for the Evaluation of Permit Applications for Ocean Dumping of Materials	Regulates dumping of materials into US waters and evaluates the need for ocean disposal.
US Environmental Protection Agency	Ocean Dumping Permit	Ocean Disposal
US Coast Guard	Concurrence with Ocean Dumping Permit	Ocean Disposal
National Marine Fisheries Service and US Fish and Wildlife Service	Concurrence with Ocean Dumping Permit	Ocean Disposal
State Agencies		
State Water Resources Control Board, Regional Water Quality Control Board	401 Certification (CWA, 33 USC 1341, if the project requires USACE 404 Permit) Water Discharge Requirements (WDRs) for dredging	Discharge into waters and wetlands during demolition, construction, and dredging activities.
California Coastal Commission	Coastal Development Permit	Development outside the District's jurisdiction.
State Lands Commission (SLC)	Obtain a lease for dredging outside District tidelands, and operation of the drydock outside District's tidelands	Development within the State Land Commission's jurisdiction.
California Department of Fish and Wildlife	Concurrence with Ocean Dumping Permit	Ocean Disposal
Local Agencies		
San Diego Unified Port District	Certification of Final EIR; approval of Pier 1 North Drydock Project; Coastal Development Permit for the portion of the proposed project beyond the US Pierhead in the District's jurisdiction; Coastal Act approval, approval of Engineering Plans; and approval of lease amendment and other real estate agreements.	As Lead Agency under CEQA; for development within the District's jurisdiction.
City of San Diego	Building permits	On-shore utilities and fire protection

CEQA = California Environmental Quality Act
CFR = Code of Federal Regulations
CWA = Clean Water Act
District = San Diego Unified Port District
EIR = Environmental Impact Report
EPA = Environmental Protection Agency
PRC = Public Resource Code
USC = United States Code

APPENDIX B

FHWA HIGHWAY TRAFFIC NOISE MODEL PRINTOUTS

TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Logan Avenue from I-5 Southbound Off-Ramp to Cesar Chavez
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.67

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	100.4	213.4

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Kearney Avenue to Logan Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	80.3	169.5	363.5

TABLE Existing-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Logan Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11600 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.18

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	69.8	146.4	313.4

TABLE Existing-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Kearney Avenue from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 500 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.57

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	0.0

TABLE Existing-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.83

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	57.7	119.4	254.9

TABLE Existing-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Sampson Street to 28th Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9600 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.36

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	62.1	129.3	276.4

TABLE Existing-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from 28th Street to Kearney Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3200 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.64

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	83.6

TABLE Existing-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from Kearney Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2700 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.90

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	74.7

TABLE Existing-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from SR-94 Eastbound Ramps to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7000 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.03

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	65.5	140.7

TABLE Existing-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from National Avenue to Boston Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13900 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.97

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	78.2	164.8	353.4

TABLE Existing-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from Boston Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15300 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.39

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	83.1	175.6	376.7

TABLE Existing-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: National Avenue from 28th Street to I-5 Northbound Ramps
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14600 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.68

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	79.6	169.8	365.1

TABLE Existing-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Boston Avenue from 28th Street to I-5 Southbound On-Ramp
NOTES: BAE Systems Pier 1N Drydock Project - Existing

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8100 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.67

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	72.2	155.0

TABLE Existing with Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Logan Avenue from I-5 Southbound Off-Ramp to Cesar Chavez
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.67

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	100.4	213.4

TABLE Existing with Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Kearney Avenue to Logan Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	80.3	169.5	363.5

TABLE Existing with Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Logan Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11700 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.22

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	70.2	147.2	315.2

TABLE Existing with Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Kearney Avenue from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 500 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.57

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	0.0

TABLE Existing with Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.83

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	57.7	119.4	254.9

TABLE Existing with Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Sampson Street to 28th Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9600 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.36

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	62.1	129.3	276.4

TABLE Existing with Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from 28th Street to Kearney Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3300 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.77

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	85.4

TABLE Existing with Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from Kearney Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2700 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.90

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	74.7

TABLE Existing with Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from SR-94 Eastbound Ramps to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7100 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.10

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	66.1	142.0

TABLE Existing with Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from National Avenue to Boston Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14000 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES		
DAY	EVENING	NIGHT
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AUTOS		
75.51	12.57	9.34
M-TRUCKS		
1.56	0.09	0.19
H-TRUCKS		
0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.00

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
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0.0	78.5	165.6	355.1

TABLE Existing with Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from Boston Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15300 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.39

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	83.1	175.6	376.7

TABLE Existing with Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: National Avenue from 28th Street to I-5 Northbound Ramps
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14700 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES			
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.71

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	79.9	170.6	366.8

TABLE Existing with Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Boston Avenue from 28th Street to I-5 Southbound On-Ramp
NOTES: BAE Systems Pier 1N Drydock Project - Existing with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8200 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.72

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	72.8	156.3

TABLE 2017 Cumulative w/o Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Logan Avenue from I-5 Southbound Off-Ramp to Cesar Chavez
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6800 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.86

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	103.3	219.9

TABLE 2017 Cumulative w/o Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Kearney Avenue to Logan Avenue
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16200 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.63

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	86.1	182.4	391.3

TABLE 2017 Cumulative w/o Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Logan Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13200 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.74

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	75.7	159.3	341.5

TABLE 2017 Cumulative w/o Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Kearney Avenue from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1200 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.38

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL	70 CNEL	65 CNEL	60 CNEL	55 CNEL
	0.0	0.0	0.0	0.0

TABLE 2017 Cumulative w/o Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10000 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES			
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.54

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	63.7	132.8	284.0

TABLE 2017 Cumulative w/o Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Sampson Street to 28th Street
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11100 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.99

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	67.9	142.2	304.3

TABLE 2017 Cumulative w/o Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from 28th Street to Kearney Avenue
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3600 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES			
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.15

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	90.4

TABLE 2017 Cumulative w/o Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from Kearney Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3100 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.50

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	81.9

TABLE 2017 Cumulative w/o Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from SR-94 Eastbound Ramps to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7400 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.28

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	68.0	146.0

TABLE 2017 Cumulative w/o Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from National Avenue to Boston Avenue
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15100 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.33

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	82.4	174.1	373.4

TABLE 2017 Cumulative w/o Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from Boston Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16800 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.79

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	88.2	186.8	400.9

TABLE 2017 Cumulative w/o Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: National Avenue from 28th Street to I-5 Northbound Ramps
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16000 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.07

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	84.5	180.5	388.1

TABLE 2017 Cumulative w/o Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Boston Avenue from 28th Street to I-5 Southbound On-Ramp
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative w/o Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9400 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.32

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	79.6	171.2

TABLE 2017 Cumulative with Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Logan Avenue from I-5 Southbound Off-Ramp to Cesar Chavez
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6900 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.93

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	104.3	222.1

TABLE 2017 Cumulative with Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Kearney Avenue to Logan Avenue
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16200 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.63

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL	70 CNEL	65 CNEL	60 CNEL	55 CNEL
	0.0	86.1	182.4	391.3

TABLE 2017 Cumulative with Project-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Logan Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 13200 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.74

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	75.7	159.3	341.5

TABLE 2017 Cumulative with Project-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Kearney Avenue from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 1200 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 53.38

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	0.0

TABLE 2017 Cumulative with Project-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 10100 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.58

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	64.1	133.7	285.8

TABLE 2017 Cumulative with Project-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Sampson Street to 28th Street
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11200 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.03

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	68.3	143.0	306.2

TABLE 2017 Cumulative with Project-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from 28th Street to Kearney Avenue
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3700 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.27

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	92.1

TABLE 2017 Cumulative with Project-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from Kearney Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3100 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.50

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	81.9

TABLE 2017 Cumulative with Project-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from SR-94 Eastbound Ramps to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7400 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.28

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	68.0	146.0

TABLE 2017 Cumulative with Project-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from National Avenue to Boston Avenue
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15100 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.33

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	82.4	174.1	373.4

TABLE 2017 Cumulative with Project-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from Boston Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16900 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.82

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	88.5	187.5	402.5

TABLE 2017 Cumulative with Project-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: National Avenue from 28th Street to I-5 Northbound Ramps
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 16000 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.07

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	84.5	180.5	388.1

TABLE 2017 Cumulative with Project-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Boston Avenue from 28th Street to I-5 Southbound On-Ramp
NOTES: BAE Systems Pier 1N Drydock Project - 2017 Cumulative with Project

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9400 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.32

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	79.6	171.2

TABLE Existing & Construction-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Logan Avenue from I-5 Southbound Off-Ramp to Cesar Chavez
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 6600 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 62.73

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	101.4	215.6

TABLE Existing & Construction-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Kearney Avenue to Logan Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14500 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.15

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	80.3	169.5	363.5

TABLE Existing & Construction-03
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Cesar Chavez Parkway from Logan Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 11800 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 65.26

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	70.5	148.0	317.0

TABLE Existing & Construction-04
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Kearney Avenue from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 500 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 49.57

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	0.0

TABLE Existing & Construction-05
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Cesar Chavez Parkway to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8700 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 63.93

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	58.5	121.2	258.9

TABLE Existing & Construction-06
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Harbor Drive from Sampson Street to 28th Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 9800 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 64.45

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	62.9	131.0	280.2

TABLE Existing & Construction-07
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from 28th Street to Kearney Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3200 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 57.64

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	83.6

TABLE Existing & Construction-08
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Sampson Street from Kearney Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 2700 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

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* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 56.90

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	0.0	74.7

TABLE Existing & Construction-09
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from SR-94 Eastbound Ramps to Sampson Street
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

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* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 7000 SPEED (MPH): 30 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES		
	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.03

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL			
70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	65.5	140.7

TABLE Existing & Construction-10
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from National Avenue to Boston Avenue
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14000 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.00

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	78.5	165.6	355.1

TABLE Existing & Construction-11
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: 28th Street from Boston Avenue to Harbor Drive
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15300 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.39

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	83.1	175.6	376.7

TABLE Existing & Construction-12
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: National Avenue from 28th Street to I-5 Northbound Ramps
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 14700 SPEED (MPH): 40 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 12 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.71

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	79.9	170.6	366.8

TABLE Existing & Construction-13
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 03/27/2015
ROADWAY SEGMENT: Boston Avenue from 28th Street to I-5 Southbound On-Ramp
NOTES: BAE Systems Pier 1N Drydock Project - Existing & Construction

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 8200 SPEED (MPH): 30 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	EVENING	NIGHT
AUTOS	75.51	12.57	9.34
M-TRUCKS	1.56	0.09	0.19
H-TRUCKS	0.64	0.02	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

CNEL AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.72

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO CNEL

70 CNEL	65 CNEL	60 CNEL	55 CNEL
0.0	0.0	72.8	156.3

APPENDIX G

TRAFFIC IMPACT ANALYSIS

TRAFFIC IMPACT STUDY

BAE SYSTEMS PIER 1N DRYDOCK, ASSOCIATED REAL ESTATE AGREEMENTS, AND REMOVAL OF COOLING TUNNELS PROJECT

SAN DIEGO UNIFIED PORT DISTRICT

PLANNING DISTRICT 4, PLANNING SUBAREA 43

LSA

March 2015

63732 418

TRAFFIC IMPACT STUDY

BAE SYSTEMS PIER 1N DRYDOCK, ASSOCIATED REAL ESTATE AGREEMENTS, AND REMOVAL OF COOLING TUNNELS PROJECT

SAN DIEGO UNIFIED PORT DISTRICT

PLANNING DISTRICT 4, SUBAREA 43

Submitted to:

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Project No. PTO1402

LSA

March 2015

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INTRODUCTION

LSA Associates, Inc. (LSA) is pleased to provide this Traffic Impact Study (TIS) for the proposed BAE Systems San Diego Shipyard Repair (BAE Systems) Pier 1N Drydock, Associated Real Estate Agreements, and Removal of Cooling Tunnels Project. The purpose of the following analysis is to identify the short-term and long-term traffic impacts associated with project buildout. This TIS has been prepared in accordance with the methodologies and procedures outlined in the City of San Diego (City) *Traffic Impact Study Manual*, San Diego Traffic Engineers' Council/Institute of Transportation Engineers (SANTEC/ITE) *Guidelines for Traffic Impact Studies* in the San Diego Region, the Highway Capacity Manual 2010 (HCM) published by the Transportation Research Board, and applicable provisions from the California Environmental Quality Act (CEQA).

PROJECT DESCRIPTION

The proposed project involves construction of a new drydock (dry berth) on the north side of Pier 1 at the BAE Systems facility. The drydock would support the current and future planned home-porting of United States (US) Naval ships in the harbor and allow greater flexibility in the utilization of dry-docking facilities. The proposed drydock would replace an existing wet berth used for ship repair and maintenance with a dry berth. BAE Systems also proposes to enter into a future, long-term real estate agreement with the San Diego Unified Port District (District) on the neighboring 2-acre land parcel and 4-acre water area that is currently leased by San Diego Gas & Electric (SDG&E) under a Tidelands Use and Occupancy Permit (TUOP). The TUOP parcel (formerly known as the SDG&E parcel) contains two existing underground intake/discharge ("cooling") tunnels which could be removed during project construction or at a later date. For purposes of this TIS, removal of the cooling tunnels has been assumed to occur during project construction.

Please refer to a full Project Description under separate cover for more information (provided as Appendix A). Figure 1 illustrates the project location. BAE Systems will schedule approximately 93 new employees at the Pier 1N project site for work shifts that begin and end outside of the a.m. peak-hour and p.m. peak-hour periods (7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.).

ENVIRONMENTAL ANALYSIS

Regulatory Setting

Regional Transportation Plan. The Regional Transportation Plan (RTP), prepared and adopted by the San Diego Association of Governments (SANDAG), is the region's long-range mobility plan. The RTP plans for and identifies projects for multiple modes of transportation in order to achieve a balanced regional system. It establishes the basis for State funding of local and regional transportation projects and is a prerequisite for federal funding. SANDAG prioritizes and allocates the expenditure of regional, State, and federal transportation funds to implement RTP projects.

Congestion Management Program. The region's Congestion Management Program (CMP), also prepared by SANDAG, serves as a short-term element of the RTP. It focuses on actions that can be implemented in advance of the longer-range transportation solutions contained within the RTP.



LSA

LEGEND

- Project Site
- # - Study Area Intersection

N

0 600 1200

FEET

SOURCE: Google Maps

I:\PTO1402\G\Traffic\Project Location&Intersections.cdr (10/16/14)

FIGURE 1

Pier 1 North Drydock Project

Project Location and Study Area Intersections

The CMP establishes programs for mitigating the traffic impacts of new development and monitoring the performance of system roads relative to level of service (LOS) standards. It links land use, transportation, and air quality concerns.

Bayshore Bikeway Plan. The Bayshore Bikeway is a designated 24-mile (mi) bikeway route around San Diego Bay. Planning for the Bikeway began in 1975 with a feasibility study prepared by the California Department of Transportation (Caltrans) and funded by National City. The stated objective of the study was "to determine an acceptable route for bicyclists to traverse the southern regions of San Diego Bay." The final study, released in 1976, recommended 11 mi of bicycle paths and 14 mi of bike lanes and bike routes, providing convenient and scenic bicycle transportation and recreation around the Bay. Currently, the Bayshore Bikeway route consists of approximately 12 mi of off-street bicycle paths and approximately 12 mi of on-street sections designated as either bicycle lanes or bicycle routes. SANDAG is developing additional improvements to the bikeway based on the Bayshore Bikeway Plan, which was adopted by SANDAG in 2006, to identify opportunities to improve the bikeway along the east side of the Bay. The bikeway along Harbor Drive between 32nd Street and Park Boulevard designated to serve Barrio Logan and downtown San Diego is in the planning phase, expected to be completed in December 2014. The preliminary engineering and environmental analysis are expected to be completed by June 2016.

City of San Diego Mobility Element. The Mobility Element of the City General Plan, the RTP, and the CMP all highlight the importance of integrating transportation and land use planning decisions and using multimodal strategies to reduce congestion and increase travel choices. However, the Mobility Element more specifically plans for the City's transportation goals and needs. An overall goal of the Mobility Element is to further the attainment of a balanced, multimodal transportation network that also minimizes environmental and neighborhood impacts. A balanced network is one in which each mode, or type of transportation, is able to contribute to an efficient network of services meeting varied user needs.

Barrio Logan Community Plan. Community Plans in the City establish individual communities' land use designations and policies guiding development. The Barrio Logan Community Plan ensures consistency with overall guiding principles, land use policies, and other goals found in the City General Plan. The original Barrio Logan/Harbor 101 Community Plan was adopted in 1978. Because of the community's geographical location on the San Diego waterfront, its proximity to downtown San Diego, and its older urban and mixed-use characteristics, transportation plays a major role in the community's development. Practically all known forms of transportation have an important role in the community and its future development. Transportation modes for the Barrio Logan community fall into the following categories:

- Automobile transportation (freeways, major streets, collector streets, and local streets)
- Public transportation in the form of rail (Metropolitan Transit Development Board [MTDB]) and bus transportation
- Industry-related transportation (rail, trucking, and shipping)

- Pedestrian/bicycle open space-related transportation (complete streets, recreational transit, bicycle, and pedestrian)

The Environmental Impact Report for the update to the Barrio Logan Community Plan was approved by the City Council in October 2013. However, the Barrio Logan Community Plan update was overturned by referendum spearheaded by the Protect Our Jobs Coalition on June 3, 2014.

Senate Bill 743. In an effort to promote multimodal transportation, reduce greenhouse gas (GHG) emissions, and create a diversity of land uses, the State has enacted a bill that will alter the way that transportation impacts are evaluated under CEQA. Senate Bill 743 (SB 743) eliminates the traditional LOS impact analysis and directs the Governor's Office of Planning and Research (OPR) to prepare draft CEQA guidelines to implement the goals of SB 743.

Under the proposed guidelines, the analysis of the transportation impacts of proposed development will use vehicle miles traveled (VMT) as the measuring method, rather than the LOS measure commonly used today. For the guidelines, VMT measures "the amount and distance that a project might cause people to drive," whereas LOS focuses on congestion and delay. Changing the methodology is intended to result in more-sustainable communities.

Proposed guidelines were released in August 2014 as a "Discussion Draft." The comment period on that "Discussion Draft" ended on November 21, 2014. Recent communications with OPR staff indicate they will complete their review within approximately two months, at which time they are suggesting a new set of revised guidelines for review. When the revised guidelines are released, another cycle of comment and review will occur. After OPR completes its guideline preparation, the draft final guidelines will be submitted to the Natural Resources Agency, which will make modifications and hold public meetings/hearings.

After the final recommendation from the Natural Resources Agency, the guidelines will then move into the Administrative Law process, at which point they will be codified into law. Based on recent estimates, the applicability of this law to a project within a "transit priority area" (i.e., an area within a 0.5-mile radius of an existing or planned major transit stop) and "high-quality transit corridor" (i.e., a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours) will not take effect until late 2015 or early 2016. As the proposed project is within a 0.5-mile radius of a "transit priority area" (i.e., Barrio Logan Station) and a "high quality transportation corridor" (i.e., Main Street), it is likely that the project will be exempt from the SB 743 requirements and be found to have less than significant impacts on circulation.

The application of SB 743 and the specific CEQA Guideline amendments are not complete and will not take effect until some period after the project's review and certification. The CEQA guidelines address amendments and state such amendments apply prospectively. New requirements under the amendments will apply to steps in the CEQA process not yet undertaken by the date that agencies must comply with the amendments {Section 15007 (b)}. Therefore, a VMT analysis for SB 743 consistency purposes is not applicable at this time, as the specific analysis requirements have yet to be identified. The project CEQA review process will likely be completed prior to the ultimate adoption of final rules by Natural Resources and Administrative Law. However, a VMT analysis has been included in the GHG analysis as part of the overall Air Quality assessment within the project environmental analysis.

Environmental Setting

Existing Circulation System. Key roadways in the vicinity of the proposed project are as follows:

- **Interstate 5.** Interstate 5 (I-5) is located to the east of the project site and is classified and functions as an eight-lane freeway with four main lanes of traffic in each direction. Access to the project site from I-5 is provided via southbound on-/off-ramps at Logan Avenue, northbound on-/off-ramps at National Avenue, a southbound off-ramp at 28th Street, and a southbound on-ramp at Boston Avenue.
- **Harbor Drive.** Harbor Drive functions as an east-west four-lane major arterial between Sigsbee Street and Vesta Street. The road has a raised or landscaped median along the entire length of the segment. Harbor Drive is a designated truck route and has a Class II bikeway with bike lanes along each side of the road. The street has intermittent curbs, sidewalks, and parallel parking along the northern side of the road. The southern side of Harbor Dive has limited curbs and sidewalks. Parallel parking is intermittently permitted between Schley Street and 32nd Street. The posted speed limit is 40 and 45 miles per hour (mph).
- **28th Street.** 28th Street is located southeast of the project site and functions as a north-south, four-lane collector between Boston Avenue and Main Street and as a four-lane with raised median major arterial between Main Street and Harbor Drive. Between National Avenue and Boston Avenue, 28th Street functions as a three-lane collector with two northbound lanes and a southbound lane. This street is a designated truck route. Sidewalks and curbs line each side of the street for the entire length of the segment. Parallel parking is available on each side of the street between Main Street and Harbor Drive. The National Steel and Shipbuilding Company (NASSCO) shipyard is located at the southern end of 28th Street. South of Main Street, US Naval Base San Diego fronts on the east side of 28th Street, including an access gate to the base. I-5 on- and off-ramps connect 28th Street to I-5 near the northern end of the segment. The Traffic Study for the proposed Barrio Logan Community Plan Update recommends that 28th Street between Harbor Drive and the I-5 ramps be classified as a four-lane major arterial.
- **Kearney Avenue.** Kearney Avenue is a one-way (westbound), single-lane collector between 19th Street and 27th Street. This road has sidewalks, curbs, and parallel parking spaces on each side of the street. Trucks above 5 tons are prohibited by signage from traveling along Kearney Avenue. The posted speed limit is 25 mph.
- **Logan Avenue.** Logan Avenue functions as a north-south two-lane collector with a two-way left-turn lane between Commercial Street and 26th Street. This road has sidewalks, curbs, and parallel parking spaces on each side of the street. A southbound I-5 off-ramp is located at the intersection with Beardsley Street.
- **Boston Avenue.** Boston Avenue functions as an east-west two-lane collector between 28th Street and 32nd Street. This road has sidewalks, curbs, and parallel parking spaces on each side of the street. A southbound I-5 on-ramp is located at the intersection with 29th Street.
- **National Avenue.** National Avenue functions as an east-west two-lane collector between Commercial Street and 27th Street. A two-way left-turn lane is provided between Commercial Street and Beardsley Street and between Dewey Street and 27th Street. Trucks above 5 tons are prohibited by signage to travel along National Avenue. An eastbound State Route 75 (SR-75)

off-ramp is located along National Avenue between Cesar Chavez Parkway and Evans Street. This segment of National Avenue has sidewalks, curbs, and parallel parking on each side of the road. Diagonal parking is provided on National Avenue on the south side of the street for portions of the segment between Beardsley Street and Evans Street.

- **Sampson Street.** Sampson Street functions as a north-south two-lane collector between I-5 and Harbor Drive. Sidewalks, curbs, and parallel parking spaces are located on each side of the road. Trucks above 5 tons are prohibited by signage to travel along Sampson Street.
- **Cesar Chavez Parkway.** Cesar Chavez Parkway functions as a north-south four-lane collector between Logan Avenue and National Avenue and between Main Street and Harbor Drive. This road functions as a three-lane collector between Logan Avenue and Kearney Avenue and between National Avenue and Main Street. Cesar Chavez Parkway is lined with sidewalks and curbs on both sides of the road for the entire length of the street. Parallel parking is available on the west side of the street between National Avenue and Main Street. Signs prohibit trucks above 5 tons from traveling along Cesar Chavez Parkway. A northbound I-5 on-ramp is located at the intersection of Cesar Chavez Parkway and Kearney Avenue. A westbound SR-75 on-ramp is located at the intersection of Cesar Chavez Parkway and Logan Avenue.
- **Main Street.** Main Street functions as an east-west two-lane collector between Beardsley Street and 26th Street. A two-way left-turn lane is provided between Rigel Street and Yama Street. Main Street functions as a three-lane collector between 26th Street and 27th Street and between 29th Street and 32nd Street and a four-lane collector between 27th Street and 29th Street and between 32nd Street and Rigel Street. Curbs and sidewalks are located on each side of the road along the entire length of the segment. Signs prohibit trucks over 5 tons from traveling on Main Street west of 26th Street. A northbound State Route 15 (SR-15) on-ramp and a southbound SR-15 off-ramp are located between 32nd Street and Rigel Street. Southbound I-5 on- and off-ramps are also located near the intersection with Yama Street. Main Street is a designated Class III bikeway. Parallel parking is intermittently permitted along each side of the road.

Project Study Area. The study area analyzed in this report includes the following intersections and roadway segments. In addition to the project location, previously referenced Figure 1 also shows the locations of the study area intersections and roadway segments analyzed in this report.

Study Area Intersections

1. I-5 Southbound Off-Ramp/Logan Avenue
2. Cesar Chavez Parkway/Kearney Avenue
3. Cesar Chavez Parkway/Logan Avenue
4. Cesar Chavez Parkway/Harbor Drive
5. Sampson Street/Kearney Avenue
6. Sampson Street/Harbor Drive
7. 28th Street/State Route 94 (SR-94) Westbound Ramps
8. 28th Street/SR-94 Eastbound Ramps

9. 28th Street/National Avenue
10. 28th Street/Boston Avenue
11. 28th Street/Harbor Drive
12. I-5 Northbound Ramps/National Avenue
13. I-5 Southbound On-Ramp/Boston Avenue

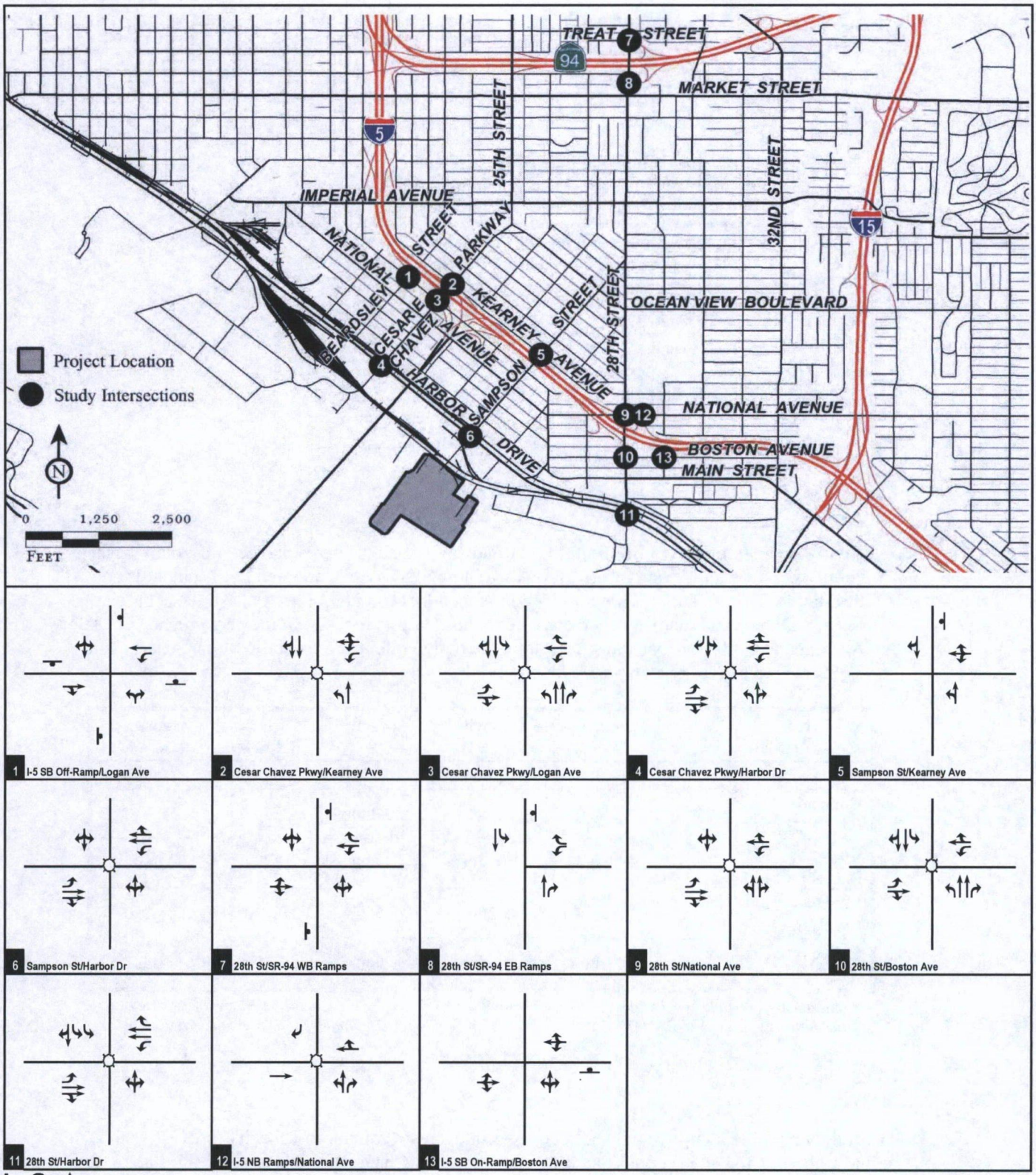
Study Area Roadway Segments

1. Logan Avenue between I-5 Southbound On-Ramp and Cesar Chavez Parkway
2. Cesar Chavez Parkway between Kearney Avenue and Logan Avenue
3. Cesar Chavez Parkway between Logan Avenue and Harbor Drive
4. Kearney Avenue between Cesar Chavez Parkway and Sampson Street
5. Harbor Drive between Cesar Chavez Parkway and Sampson Street
6. Harbor Drive between Sampson Street and 28th Street
7. Sampson Street between 28th Street and Kearney Avenue
8. Sampson Street between Kearney Avenue and Harbor Drive
9. 28th Street between SR-94 Eastbound Ramps and Sampson Street
10. 28th Street between National Avenue and Boston Avenue
11. 28th Street between Boston Avenue and Harbor Drive
12. National Avenue between 28th Street and I-5 Northbound Ramps
13. Boston Avenue between 28th Street and I-5 Southbound On-Ramp

A.m. peak-hour (7:00–9:00 a.m.), p.m. peak-hour (4:00–6:00 p.m.), and daily traffic counts were collected by National Data and Surveying Services (NDS) in December 2013 for the study area intersections and roadway segments. The existing traffic counts are provided as Appendix B. The existing study area intersection geometrics and traffic control are illustrated in Figure 2.

Methodology. The following traffic analysis was conducted according to the methodologies and procedures outlined in the City *Traffic Impact Study Manual*, SANTEC/ITE *Guidelines for Traffic Impact Studies in the San Diego Region*, the HCM 2010 published by the Transportation Research Board, and applicable provisions from CEQA.

Intersection Level of Service Methodology. The HCM 2010 methodology has been used to determine the intersection LOS within the study area. The resulting delay is expressed in terms of LOS, where LOS A represents free-flow activity and LOS F represents overcapacity operation. LOS is a qualitative assessment of the quantitative effects of such factors as traffic volume, roadway geometrics, speed, delay, and maneuverability on roadway and intersection operations.



LSA

FIGURE 2

Legend
Signal
Stop Sign

Pier 1N Drydock

Existing Intersection Geometrics and Traffic Control

P:\PTO1402\Traffic\xls\g30- Geo_Exist.xlsx 10/15/2014

The relationship between delay and LOS at unsignalized and signalized intersections is summarized below. LOS D is considered the upper limit of satisfactory conditions.

LOS	Unsignalized Intersection Delay (seconds)	Signalized Intersection Delay (seconds)
A	≤10.0	≤10.0
B	>10.0 and ≤15.0	>10.0 and ≤20.0
C	>15.0 and ≤25.0	>20.0 and ≤35.0
D	>25.0 and ≤35.0	>35.0 and ≤55.0
E	>35.0 and ≤50.0	>55.0 and ≤80.0
F	>50.0	>80.0

Source: Highway Capacity Manual (2010).
LOS = level of service

Roadway Segment LOS Methodology. Roadway segments were analyzed on a daily basis by comparing the average daily traffic (ADT) volume to the City's adopted LOS standards and ADT thresholds. These standards are provided in Appendix C and provide LOS estimates based on traffic volumes and roadway characteristics. This analysis focuses on the performance of Major Arterial and Collector roadways; therefore, the daily volumes for specific Major Arterial and Collector roadways are summarized below.

Street Classification	Lanes	Capacity (LOS A)	Capacity (LOS B)	Capacity (LOS C)	Capacity (LOS D)	Capacity (LOS E)
Major Arterial	4	15,000	21,000	30,000	35,000	40,000
Collector (w/TWLT)	4	10,000	14,000	20,000	25,000	30,000
Collector (w/TWLT)	3	7,500	10,500	15,000	18,750	22,500
Collector (no TWLT)	3	3,750	5,250	7,500	9,750	11,250
Collector (no TWLT)	2	2,500	3,500	5,000	6,500	8,000

Sources: City of San Diego *Traffic Impact Study Manual*, San Diego Traffic Engineers' Council/Institute of Transportation Engineers (SANTEC/ITE) *Guidelines for Traffic Impact Studies in the San Diego Region.*
LOS = level of service
TWLT = two-way left-turn lane

The following table identifies threshold changes in delay or volume-to-capacity (v/c) ratios that define an impact for intersections and roadway segments. Changes in delay or v/c ratios are only considered significant if the existing LOS is E or F. If the project does not result in LOS E with a delay increase of more than 2 seconds (or LOS F with a delay increase of more than 1 second) at a study area intersection, then a significant impact would not occur. Similarly, if the project does not result in LOS E with a v/c increase of more than 0.02 (or LOS F with a v/c increase of more than 0.01) at a study area roadway segment, then a significant impact would not occur.

LOS With Project	Intersection Delay (seconds)	Roadway Segments v/c Increase
E	>2.0	>0.02
F	>1.0	>0.01

Sources: City of San Diego *Traffic Impact Study Manual*, San Diego Traffic Engineers' Council/Institute of Transportation Engineers (SANTEC/ITE) *Guidelines for Traffic Impact Studies in the San Diego Region.*
LOS = level of service
v/c = volume-to-capacity ratio

The District does not have thresholds for determining significance of project impacts. Therefore, it is typical for the District to utilize underlying/adjacent City provisions for such analyses.

Existing No Project Conditions and LOS Analysis. Figure 3 presents the existing a.m. and p.m. peak-hour volumes from Appendix B. These peak-hour volumes are used to calculate (or determine) the existing LOS. The existing LOS calculation worksheets are provided as Appendix D. Table A summarizes the results of the existing a.m. and p.m. peak-hour LOS analysis for the study area intersections. As this table indicates, all study area intersections operate at an acceptable LOS (D or better) in the a.m. and p.m. peak hours, with the exception of the following:

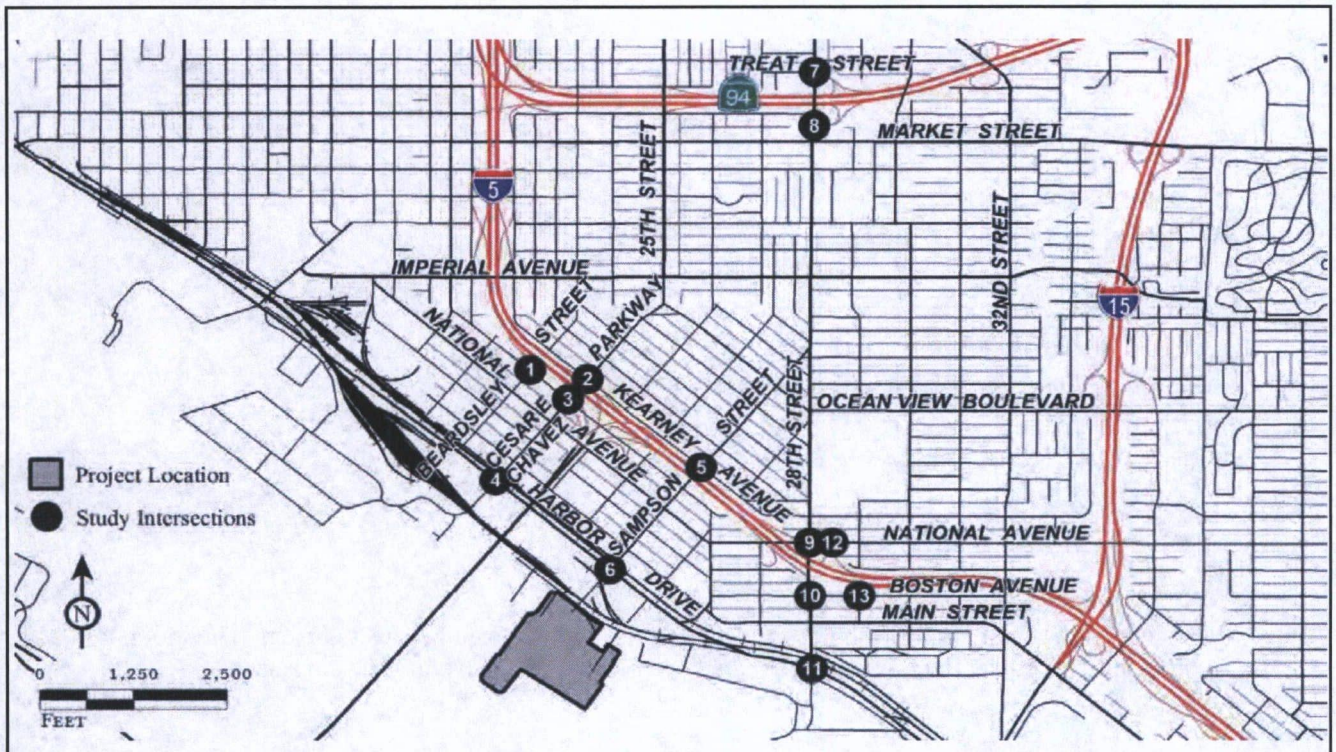
- 28th Street/SR-94 Westbound Ramps (LOS F during the p.m. peak hour)
- 28th Street/SR-94 Eastbound Ramps (LOS F during the p.m. peak hour)
- I-5 Southbound On-Ramp/Boston Avenue (LOS F during the p.m. peak hour)

Figure 4 presents the existing ADT at the study area roadway segments. Table B summarizes the ADT volumes and v/c ratios for the study area roadway segments in the existing condition from Appendix B. As shown on Table B, all study area roadway segments operate at an acceptable LOS (LOS D or better), with the exception of the following:

- 28th Street between SR-94 Eastbound Ramps and Sampson Street (LOS E)
- National Avenue between 28th Street and the I-5 Northbound Ramps (LOS F)
- Boston Avenue between 28th Street and the I-5 Southbound Ramp (LOS F)

Project Impacts

Project Trip Generation. To determine the project traffic destined to/from the project site, BAE Systems provided operational data that included the anticipated number of new employees. Approximately 93 new employees at the Pier 1N project site will be scheduled for work shifts that begin and end outside of the a.m. peak-hour and p.m. peak-hour periods (7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:00 p.m.). The specific work shifts are as follows: 6:00 a.m. to 2:30 p.m., 2:30 p.m. to 10:30 p.m., and 10:30 p.m. to 6:00 a.m.



1 I-5 SB Off-Ramp/Logan Ave	2 Cesar Chavez Pkwy/Kearney Ave	3 Cesar Chavez Pkwy/Logan Ave	4 Cesar Chavez Pkwy/Harbor Dr
18 / 15 ↰ 226 / 107 ↓ 102 / 142 ↳ 115 / 61 ↰ 48 / 26 ↰ 103 / 214 → 9 / 33 ↲ 14 / 41 ↰ 36 / 77 ↱	21 / 20 ↰ 215 / 216 ↓ 72 / 98 ↱ 126 / 57 ← 593 / 316 ↰ 134 / 214 ↰ 105 / 243 →	98 / 63 ↰ 581 / 332 ↓ 82 / 101 ↳ 22 / 31 ↱ 25 / 19 ← 18 / 6 ↰ 70 / 91 ↳ 110 / 236 → 63 / 82 ↲ 21 / 10 ↰ 181 / 330 → 144 / 361 ↱	295 / 204 ↰ 97 / 68 ↓ 36 / 34 ↳ 50 / 31 ↱ 534 / 133 ← 33 / 16 ↰ 98 / 355 ↳ 146 / 638 → 29 / 18 ↲ 12 / 16 ↰ 46 / 104 → 18 / 28 ↱
5 Sampson St/Kearney Ave	6 Sampson St/Harbor Dr	7 28th St/SR-94 WB Ramps	8 28th St/SR-94 EB Ramps
9 / 9 ↰ 118 / 96 ↓ 10 / 13 ↱ 23 / 26 ← 13 / 8 ↰ 3 / 23 ↰ 107 / 170 →	31 / 19 ↰ 52 / 22 ↓ 6 / 20 ↳ 14 / 12 ↱ 588 / 150 ← 54 / 21 ↰ 8 / 67 ↳ 148 / 697 → 20 / 7 ↲ 6 / 11 ↰ 33 / 40 → 63 / 37 ↱	3 / 3 ↰ 346 / 449 ↓ 0 / 56 ↳ 317 / 146 ↱ 6 / 11 ← 92 / 252 ↰ 1 / 2 ↳ 1 / 3 → 10 / 22 ↲ 5 / 4 ↰ 242 / 258 → 54 / 45 ↱	234 / 348 ↓ 253 / 369 ↳ 92 / 180 ↱ 37 / 80 ↰ 215 / 135 → 213 / 243 ↱
9 28th St/National Ave	10 28th St/Boston Ave	11 28th St/Harbor Dr	12 I-5 NB Ramps/National Ave
235 / 104 ↰ 103 / 187 ↓ 23 / 54 ↳ 63 / 157 ↱ 575 / 330 ← 90 / 152 ↰ 89 / 97 ↳ 167 / 410 → 21 / 95 ↲ 50 / 19 ↰ 60 / 95 → 14 / 48 ↱	29 / 19 ↰ 564 / 692 ↓ 89 / 196 ↳ 47 / 41 ↱ 13 / 12 ← 9 / 11 ↰ 24 / 26 ↳ 53 / 181 → 4 / 9 ↲ 10 / 5 ↰ 370 / 570 → 53 / 218 ↱	46 / 15 ↰ 10 / 1 ↓ 253 / 134 ↳ 152 / 235 ↱ 628 / 131 ← 7 / 1 ↰ 33 / 127 ↳ 187 / 677 → 0 / 1 ↲ 3 / 1 ↰ 2 / 9 → 1 / 5 ↱	44 / 50 ↰ 13 / 20 ↱ 372 / 284 ← 208 / 485 → 21 / 44 ↲ 299 / 293 ↰ 34 / 32 → 97 / 125 ↱
13 I-5 SB On-Ramp/Boston Ave			
39 / 75 ↱ 39 / 41 ← 4 / 5 ↰ 242 / 536 ↳ 23 / 56 → 9 / 12 ↲ 3 / 8 ↰ 29 / 49 → 6 / 7 ↱			

LSA

FIGURE 3

XXXX / YYYY AM / PM Peak Hour Volumes

Pier 1N Drydock
Traffic Impact Study
Existing No Project Peak Hour Traffic Volumes

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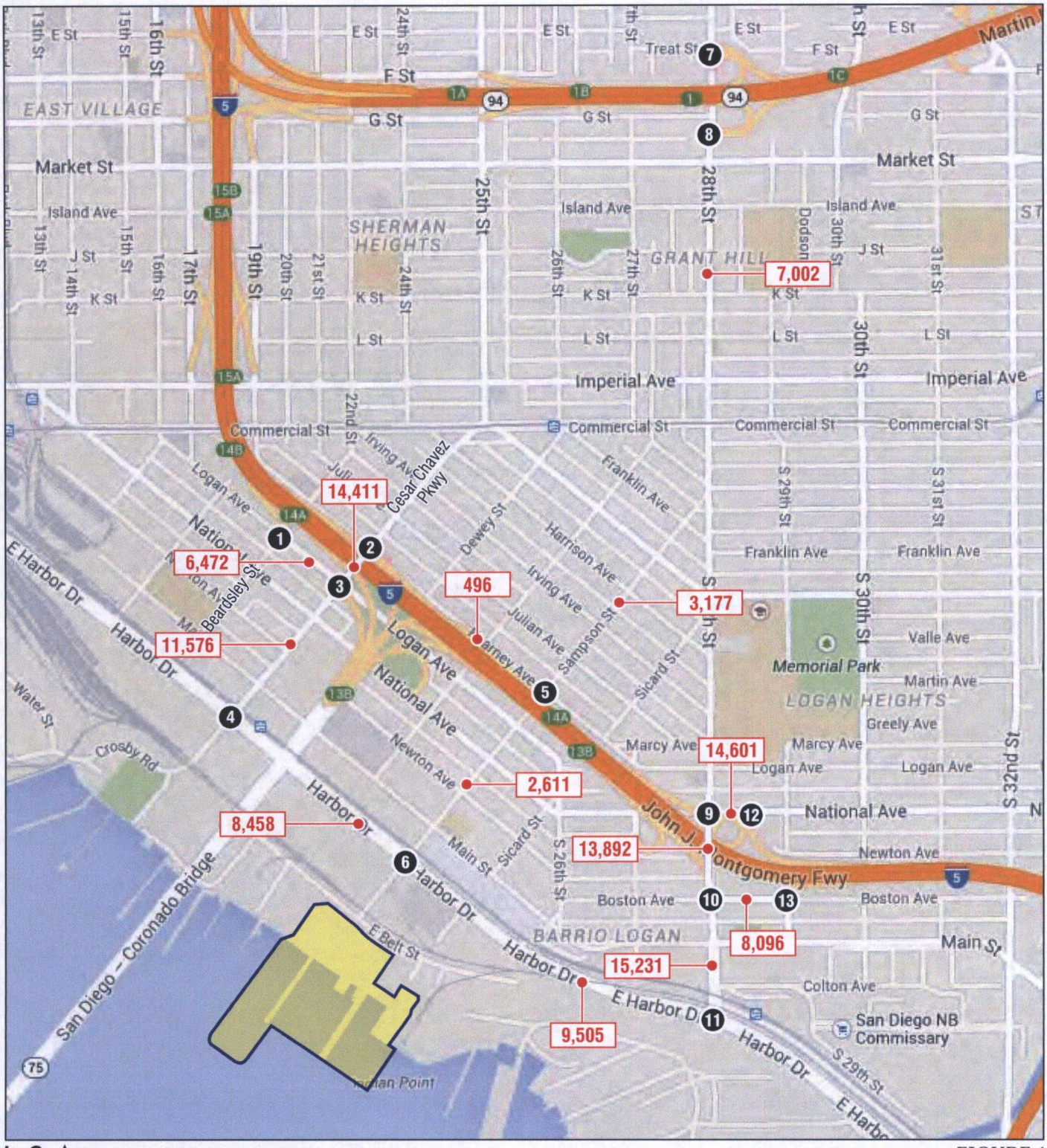
Table A: Existing No Project Intersection Level of Service Summary

	Intersection	Control Type	Existing No Project			
			AM Peak Hour		PM Peak Hour	
			Delay (sec)	LOS	Delay (sec)	LOS
1	I-5 Southbound Off-Ramp/Logan Ave	Unsignalized	11.1	B	10.7	B
2	Cesar Chavez Pkwy/Kearney Ave	Signalized	28.4	C	28.2	C
3	Cesar Chavez Pkwy/Logan Ave	Signalized	17.5	B	23.5	C
4	Cesar Chavez Pkwy/Harbor Dr	Signalized	20.4	C	25.7	C
5	Sampson St/Kearney Ave	Unsignalized	9.8	A	10.0	B
6	Sampson St/Harbor Dr	Signalized	30.6	C	29.8	C
7	28th St/SR-94 Westbound Ramps	Unsignalized	19.6	C	181.4	F
8	28th St/SR-94 Eastbound Ramps	Unsignalized	28.5	D	82.4	F
9	28th St/National Ave	Signalized	38.9	D	35.3	D
10	28th St/Boston Ave	Signalized	14.1	B	20.6	C
11	28th St/Harbor Dr	Signalized	33.3	C	33.9	C
12	I-5 Northbound Ramps/National Ave	Signalized	19.7	B	19.7	B
13	I-5 Southbound On-Ramp/Boston Ave	Unsignalized	10.9	B	50.1	F

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria



LSA

LEGEND

- Project Site
- X,XXX - Average Daily Traffic Volume

0 600 1200
FEET

SOURCE: Google Maps

FIGURE 4

Pier 1 North Drydock Project

Existing No Project Daily Traffic Volumes

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Table B: Existing No Project Roadway Segment Level of Service Summary

Roadway	Segment	Roadway Classification	Capacity	Existing No Project		
				Volume	LOS	V/C
Logan Avenue	I-5 Southbound Off-Ramp to Cesar Chavez	3 Lane Collector (with TWLT)	22,500	6,427	A	0.29
Cesar Chavez Parkway	Kearney Avenue to Logan Avenue	4 Lane Collector	30,000	14,411	C	0.48
	Logan Avenue to Harbor Drive	4 Lane Collector	30,000	11,576	B	0.39
Kearney Avenue	Cesar Chavez Parkway to Sampson Street	One Lane Collector	4,000	496	A	0.12
Harbor Drive	Cesar Chavez Parkway to Sampson Street	4 Lane Major Arterial	40,000	8,458	A	0.21
	Sampson Street to 28th Street	4 Lane Major Arterial	40,000	9,505	A	0.24
Sampson Street	28th Street to Kearney Avenue	2 Lane Collector (no TWLT)	8,000	3,177	B	0.40
	Kearney Avenue to Harbor Drive	2 Lane Collector (no TWLT)	8,000	2,611	B	0.33
28th Street	SR-94 Eastbound Ramps to Sampson Street	2 Lane Collector (no TWLT)	8,000	7,002	E	0.88
	National Avenue to Boston Avenue	3 Lane Collector (with TWLT)	22,500	13,892	C	0.62
	Boston Avenue to Harbor Drive	4 Lane Major Arterial	40,000	15,231	B	0.38
National Avenue	28th Street to I-5 Northbound Ramps	3 Lane Collector (no TWLT)	11,250	14,601	F	1.30
Boston Avenue	28th Street to I-5 Southbound On-Ramp	2 Lane Collector (no TWLT)	8,000	8,096	F	1.01

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria

V/C = volume-to-capacity ratio

Based on discussions with BAE Systems, 20 percent of employees currently utilize alternative means of transportation such as bus or train and/or carpool. Other transportation options available to BAE Systems include subsidized vanpools, a shuttle service between the shipyard and the Barrio Logan trolley station (located at the intersection of Cesar Chavez Parkway/Harbor Drive), and bicycles. BAE Systems-subsidized vanpools consist of 10 eleven-passenger vans. San Diego Trolley ridership includes individuals transported by BAE Systems shuttles to/from the Barrio Logan trolley station. However, many employees walk from the trolley station to the shipyard when the shuttles are full, as the shipyard is located less than a half mile from the station. In addition, the shipyard provides secured parking areas for up to 20 bicycles and 30 motorcycles. Therefore, it is anticipated that 20 percent of the 93 new employees will also utilize transit, carpool, or other alternative means of transportation. The remaining 80 percent will drive themselves to/from the project site. As such, 93 employees would generate approximately 149 ADT and zero peak-hour trips, as shown in Table C.

Table C: Project Trip Generation Summary

Description	Employees	ADT	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Trip Generation								
Pier 1N Drydock [1]	93	149	0	0	0	0	0	0

[1] Approximately 20 percent of employees are anticipated to utilize transit, carpool, or other alternative means of transportation. 93 employees x 0.80 employees who will drive to/from the site x 2 daily trips = 149 ADT

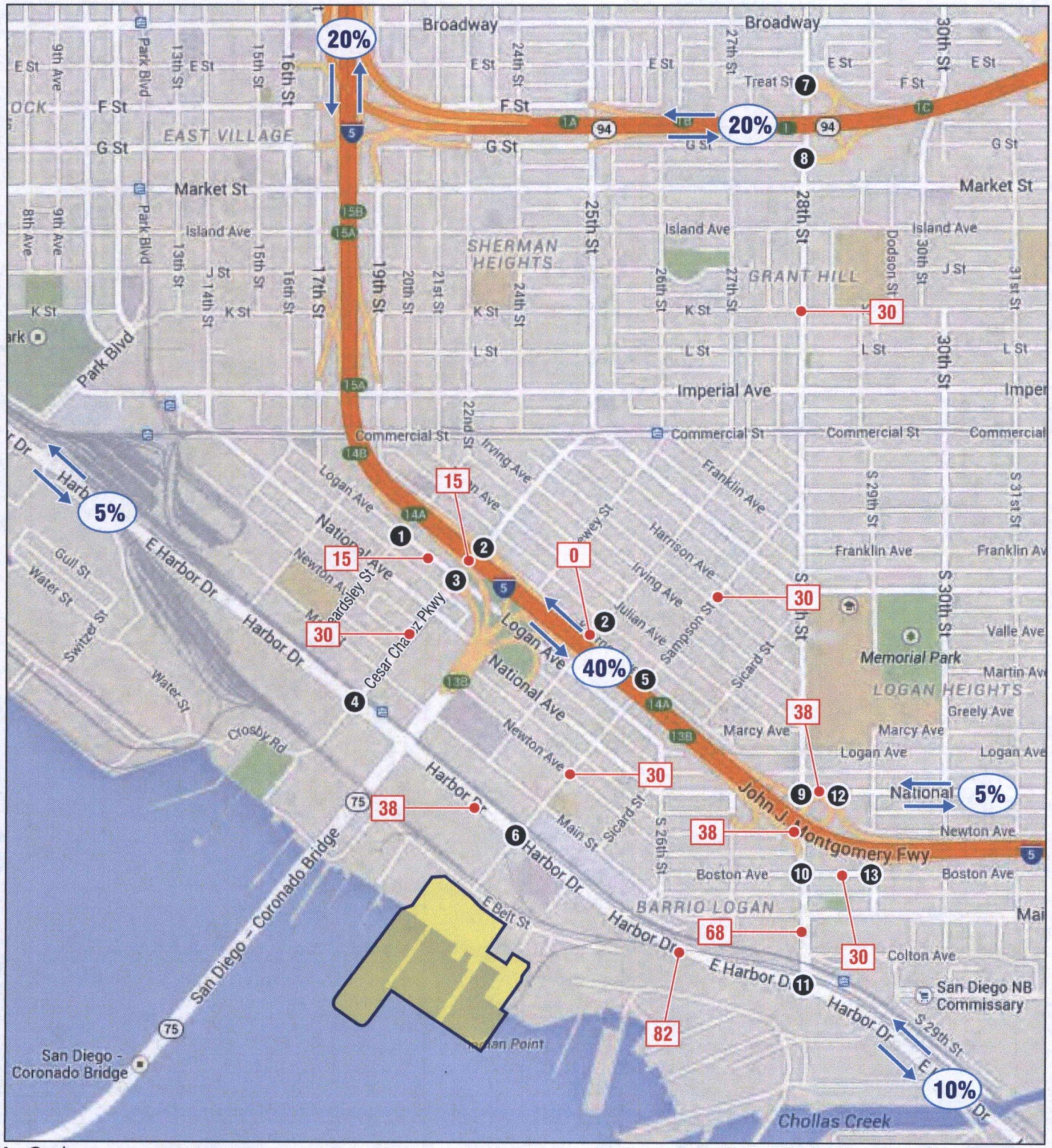
For construction-related project trip generation for the Pier 1N Drydock and Cooling Tunnel Removal components, please see Table K on page 37.

ADT = average daily traffic

Project Trip Distribution. Directions of approach to and departure from the project site were based on operational data (employee numbers, zip codes, and schedules) supplied by BAE Systems. This operational data allowed LSA to identify the trip distribution percentages for the proposed project. Approximately 25 percent of the project trips are to/from the north (via I-5 and Harbor Drive), 50 percent are to/from the south (via I-5 and Harbor Drive), and 25 percent are to/from the east (via SR-94 and National Avenue). Figure 5 illustrates the project trip distribution and assignment.

Existing Plus Project Conditions and LOS Analysis. Project traffic was added to the existing traffic volumes at the study area intersections and roadway segments. Figure 6 presents the existing plus project a.m. and p.m. peak-hour volumes. Table D summarizes the results of the existing plus project a.m. and p.m. peak-hour LOS analysis for all study area intersections. The LOS worksheets are provided as Appendix E. As Table D indicates, all study area intersections will continue to operate at an acceptable LOS (D or better) in both peak hours with implementation of the proposed project, with the exception of the following:

- 28th Street/SR-94 Westbound Ramps (LOS F during the p.m. peak hour)
- 28th Street/SR-94 Eastbound Ramps (LOS F during the p.m. peak hour)
- I-5 Southbound On-Ramp/Boston Avenue (LOS F during the p.m. peak hour)



LSA

LEGEND

- Project Site
- # - Trip Distribution Percentage
- XX - Average Daily Traffic Volume

0 650 1300
FEET

SOURCE: Google Maps

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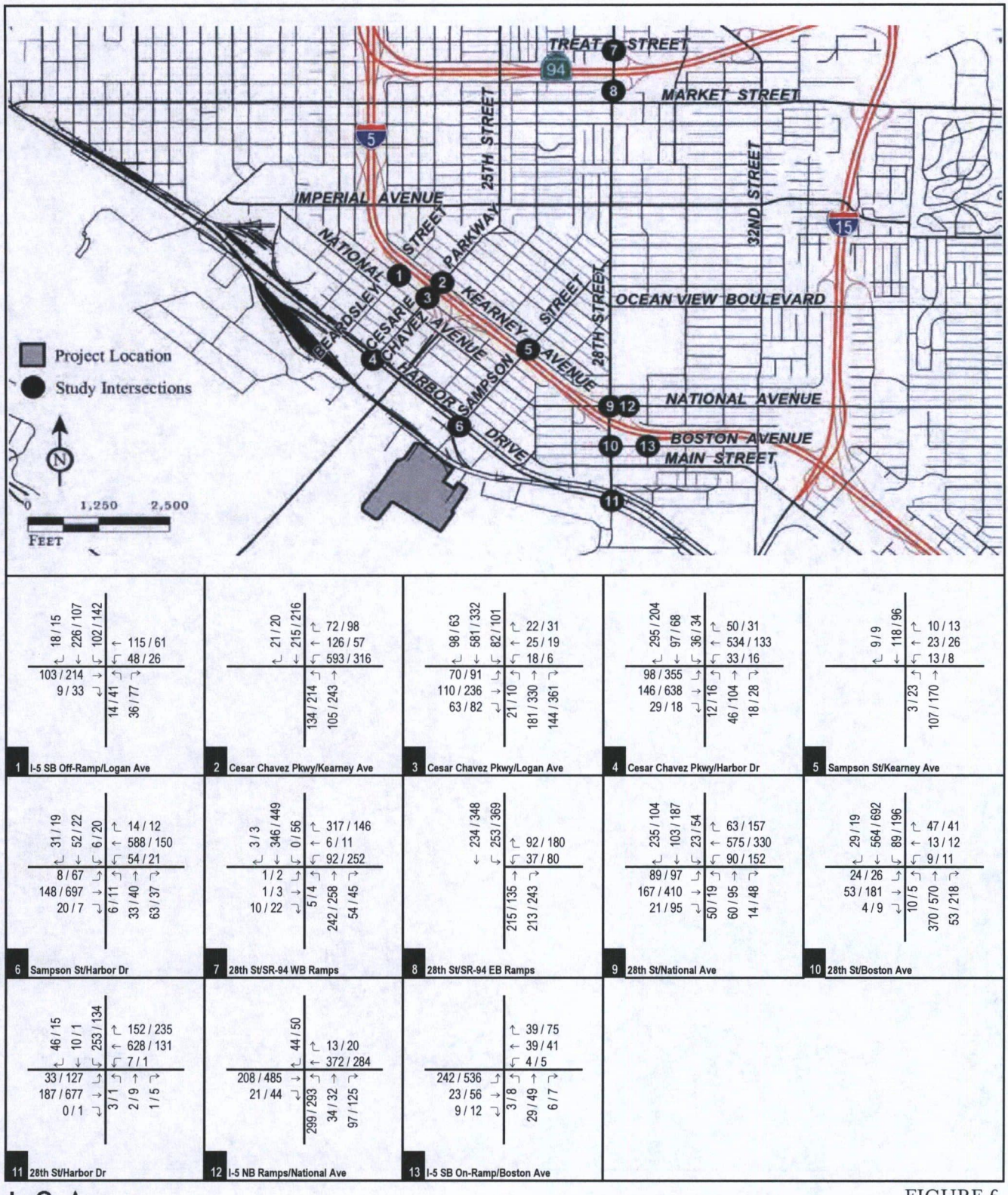
FIGURE 5

Pier 1 North Drydock Project

Project Trip Distribution and Assignment



LSA

FIGURE 6

XXXX / YYYY AM / PM Peak Hour Volumes

Pier 1N Drydock
Traffic Impact Study
Existing Plus Project Peak Hour Traffic Volumes

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Table D: Existing Plus Project Intersection Level of Service Summary

		Existing No Project				Existing Plus Project					
		AM Peak Hour		PM Peak Hour		AM Peak Hour			PM Peak Hour		
	Intersection	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	△	Delay (sec)	LOS	△
1	I-5 Southbound Off-Ramp/Logan Ave	11.1	B	10.7	B	11.1	B	0.0	10.7	B	0.0
2	Cesar Chavez Pkwy/Kearney Ave	28.4	C	28.2	C	28.4	C	0.0	28.2	C	0.0
3	Cesar Chavez Pkwy/Logan Ave	17.5	B	23.5	C	17.5	B	0.0	23.5	C	0.0
4	Cesar Chavez Pkwy/Harbor Dr	20.4	C	25.7	C	20.4	C	0.0	25.7	C	0.0
5	Sampson St/Kearney Ave	9.8	A	10.0	B	9.8	A	0.0	10.0	B	0.0
6	Sampson St/Harbor Dr	30.6	C	29.8	C	30.6	C	0.0	29.8	C	0.0
7	28th St/SR-94 Westbound Ramps	19.6	C	181.4	F	19.6	C	0.0	181.4	F	0.0
8	28th St/SR-94 Eastbound Ramps	28.5	D	82.4	F	28.5	D	0.0	82.4	F	0.0
9	28th St/National Ave	38.9	D	35.3	D	38.9	D	0.0	35.3	D	0.0
10	28th St/Boston Ave	14.1	B	20.6	C	14.1	B	0.0	20.6	C	0.0
11	28th St/Harbor Dr	33.3	C	33.9	C	33.3	C	0.0	33.9	C	0.0
12	I-5 Northbound Ramps/National Ave	19.7	B	19.7	B	19.7	B	0.0	19.7	B	0.0
13	I-5 Southbound On-Ramp/Boston Ave	10.9	B	50.1	F	10.9	B	0.0	50.1	F	0.0

Source. LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria

However, the project will not generate vehicle trips or increase intersection delay during the a.m. or p.m. peak hour. As such, the project traffic will not create a significant intersection impact in the existing plus project condition, based on the City's and the SANTEC/ITE significance criteria.

Figure 7 presents the existing plus project ADT. Table E summarizes the ADT volumes and v/c ratios for the study area roadway segments in the existing condition with the addition of project traffic. As shown on Table E, all study area roadway segments are forecast to operate at an acceptable LOS (LOS D or better) with the addition of project traffic, with the exception of the following:

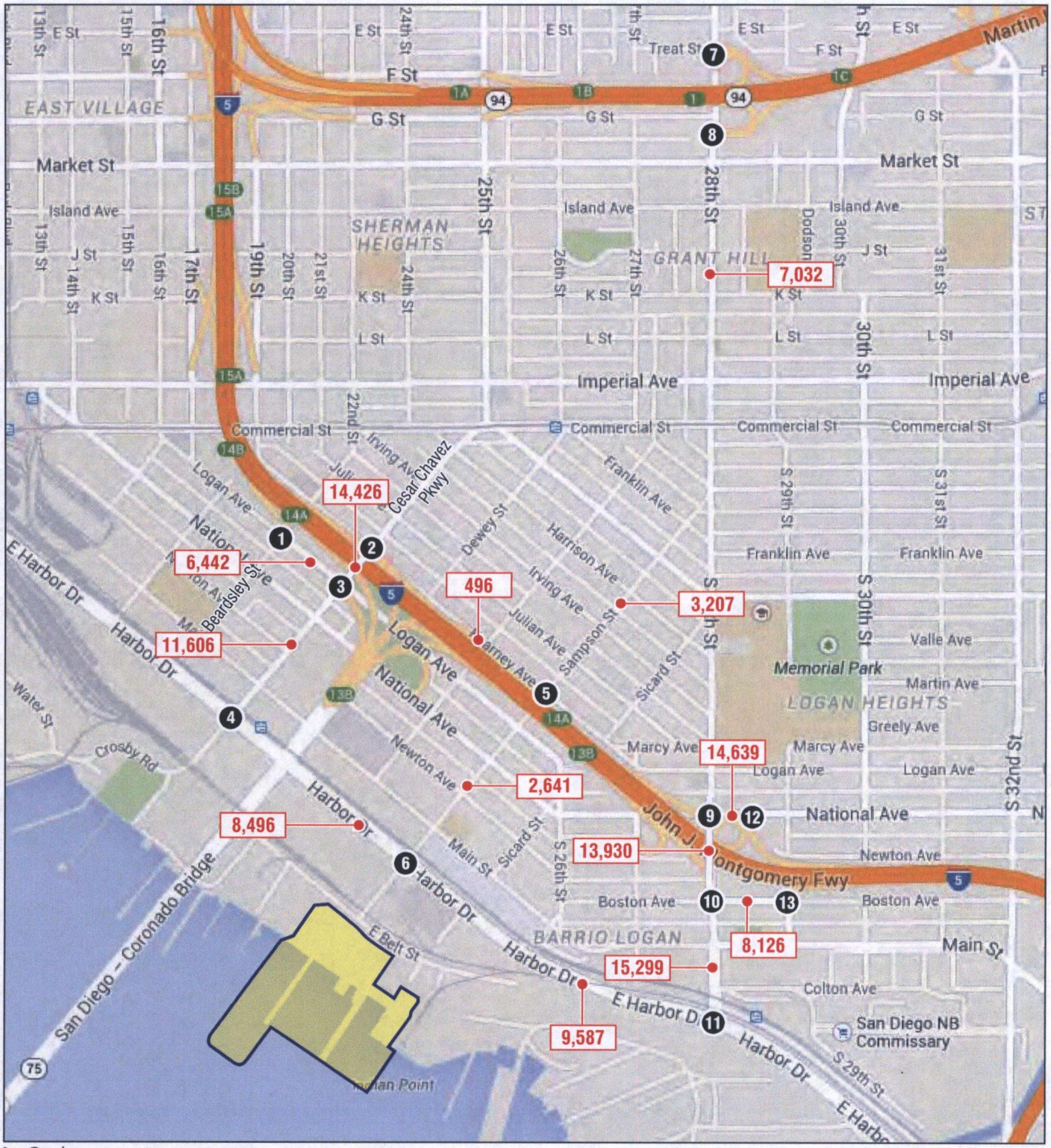
- 28th Street between SR-94 Eastbound Ramps and Sampson Street (LOS E)
- National Avenue between 28th Street and the I-5 Northbound Ramps (LOS F)
- Boston Avenue between 28th Street and the I-5 Southbound Ramp (LOS F)

The addition of project traffic will not increase the v/c ratio greater than 0.01 along any of these segments. Therefore, implementation of the project would not cause a significant impact along a study area roadway segment in the existing condition.

Bayshore Bikeway. The Bayshore Bikeway consists of bike routes along Harbor Drive. Based on the results of the roadway segment analysis, Harbor Drive is forecast to operate at acceptable LOS (LOS A or B) with implementation of the proposed project. Therefore, bike safety and bike routes would not be significantly affected with the addition of project traffic.

Parking Analysis. BAE Systems currently has 1,888 individuals (BAE Systems employees, US Navy personnel, and customers) reporting to the shipyard across three shifts. The peak parking demand is generated during the first shift with 1,637 individuals. However, not all 1,637 individuals drive their own vehicles to the site. As previously discussed, 20 percent of employees (as well as other individuals reporting to the shipyard) utilize transit, carpool, or other alternative means of transportation. Therefore, approximately 1,310 individuals drive to/from the shipyard each day during the first shift. BAE Systems is currently pursuing a long-term parking agreement with SDG&E for a new parking lot that would provide an additional 184 parking spaces. The proposed lot would be located on SDG&E property that includes unoccupied buildings and a former substation. SDG&E is in the process of evaluating the property to make the land available for BAE Systems parking. The existing and proposed project parking locations are illustrated on Figure 8.

With completion of the Pier 1N Drydock project, 93 new employees are anticipated to work on site with 64 employees working the first shift. Applying the 20 percent alternative transportation/carpool reduction to these 64 employees, approximately 51 new employees will drive to/from the site each day during the first shift. With a total project parking demand of 1,361 spaces during the first shift (1,310 current personnel vehicles and 51 new employee vehicles), the existing 1,304-space parking supply would have a deficit of 57 spaces. Once the proposed SDG&E parking lot is secured, an additional 184 spaces would be available and adequate parking would be provided for BAE Systems employees and personnel during the peak parking demand (first shift). However, in order to address the 57-space deficiency prior to securing the SDG&E lot, mitigation would be required to ensure that 57 employees are provided alternative transportation to the site. Measures to alleviate the parking deficiency are recommended later in this TIS.



LSA

LEGEND

- Project Site

X,XXX - Average Daily Traffic Volume

SOURCE: Google Maps

FIGURE 7

Pier 1 North Drydock Project

Existing Plus Project Daily Traffic Volumes

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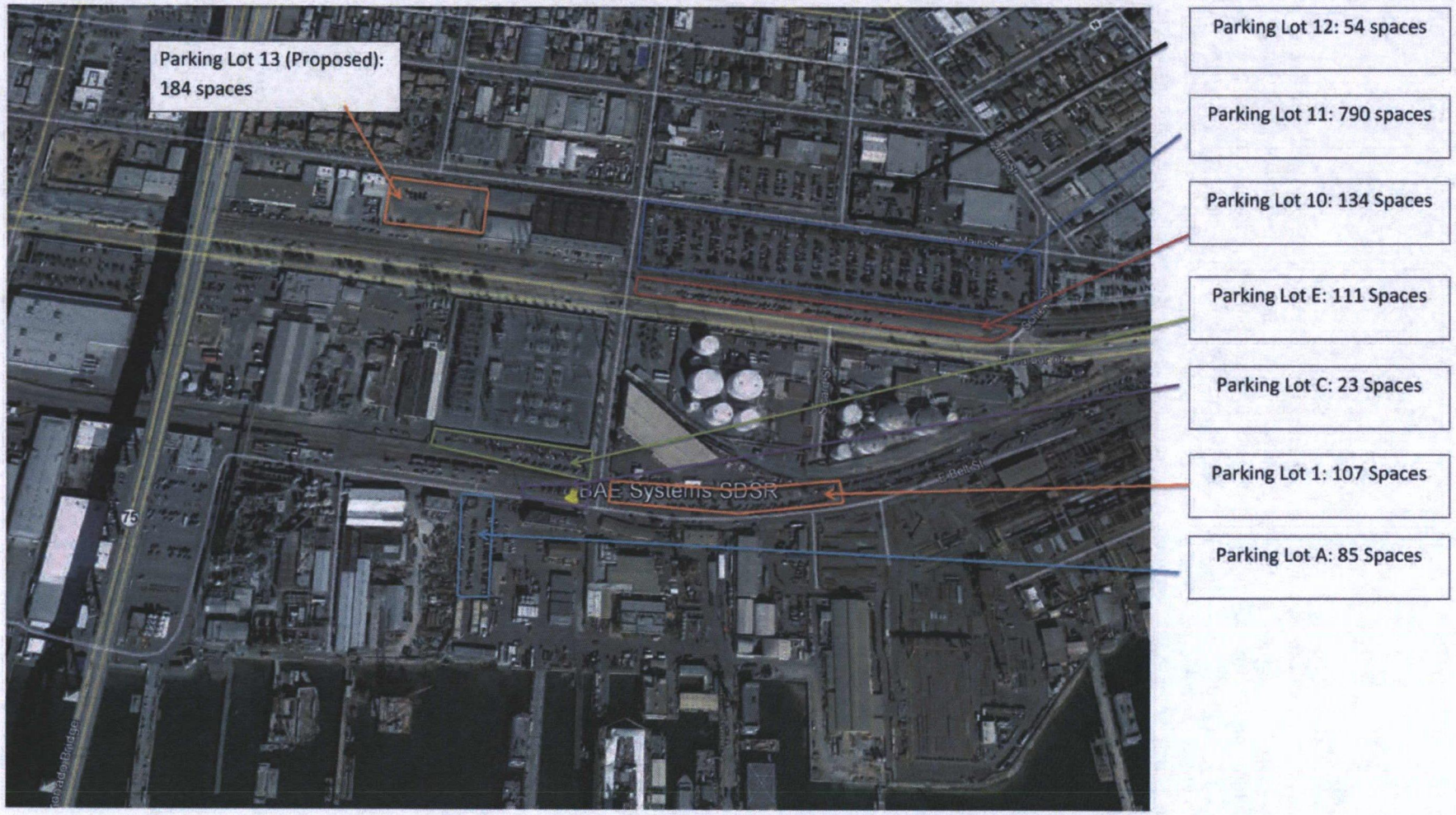
Table E: Existing Plus Project Roadway Segment Level of Service Summary

Roadway	Segment	Capacity	Existing No Project			Project ADT	Existing Plus Project			
			Volume	LOS	V/C		Volume	LOS	V/C	△
Logan Avenue	I-5 Southbound Off-Ramp to Cesar Chavez	22,500	6,427	A	0.29	15	6,442	A	0.29	0.00
Cesar Chavez Parkway	Kearney Avenue to Logan Avenue	30,000	14,411	C	0.48	15	14,426	C	0.48	0.00
	Logan Avenue to Harbor Drive	30,000	11,576	B	0.39	30	11,606	B	0.39	0.00
Kearney Avenue	Cesar Chavez Parkway to Sampson Street	4,000	496	A	0.12	0	496	A	0.12	0.00
Harbor Drive	Cesar Chavez Parkway to Sampson Street	40,000	8,458	A	0.21	38	8,496	A	0.21	0.00
	Sampson Street to 28th Street	40,000	9,505	A	0.24	82	9,587	A	0.24	0.00
Sampson Street	28th Street to Kearney Avenue	8,000	3,177	B	0.40	30	3,207	B	0.40	0.00
	Kearney Avenue to Harbor Drive	8,000	2,611	B	0.33	30	2,641	B	0.33	0.00
28th Street	SR-94 Eastbound Ramps to Sampson Street	8,000	7,002	E	0.88	30	7,032	E	0.88	0.00
	National Avenue to Boston Avenue	22,500	13,892	C	0.62	38	13,930	C	0.62	0.00
	Boston Avenue to Harbor Drive	40,000	15,231	B	0.38	68	15,299	B	0.38	0.00
National Avenue	28th Street to I-5 Northbound Ramps	11,250	14,601	F	1.30	38	14,639	F	1.30	0.00
Boston Avenue	28th Street to I-5 Southbound On-Ramp	8,000	8,096	F	1.01	30	8,126	F	1.02	0.01

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria

V/C = *volume-to-capacity ratio*



LSA

FIGURE 8

Existing Parking (Lots A, C, E, 1, 10, 11, 12) - 1,304 Spaces
Proposed Parking (Lot 13) - 184 Spaces
Total Parking - 1,488 Spaces

Pier 1 North Drydock Project
Project Parking Locations

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Cumulative Impacts

According to the project applicant, the proposed project will be opened in year 2017. To present a cumulative (2017) traffic condition, a two-step volume development process was used. A regional ambient growth rate was determined and traffic volumes for cumulative (approved/pending) projects were developed, both of which were added to the existing traffic counts. To reflect regional growth in the study area, a growth rate of 1 percent per year (total of 4 percent) was applied to the existing traffic volumes. Traffic volumes from cumulative projects in the project vicinity and study area were then added. A list of cumulative projects was obtained from the City's Development Services Department Project Tracking System and the Port, as described below and provided in Appendix F.

- **Cesar Chavez Education Center (1901 Main Street)** – Construction of a three-story continuing education facility
- **COMM 22 (2101 Commercial Street)** – Construction of 252 residential units (130 affordable family rental units, 70 affordable senior rental lofts, 35 market-rate lofts, and 17 for-sale townhomes) and 25,000 square feet (sf) of commercial/retail use
- **Jack-in-the-Box (2890 National Avenue)** – Construction of a 2,588 sf Jack-in-the-Box drive-through restaurant
- **Albert Einstein Academy (446 26th Street)** – Splitting two hospital buildings (i.e., converting one building to a middle school and the other building to remain as a hospital)
- **Shipyard Sediment Remediation Project** – Dredging of sediment adjacent to shipyards in the San Diego Bay (eastern shore of San Diego Bay, extending from Sampson Street to Chollas Creek)
- **New Lease to San Diego Refrigerated Services (SDRS) at Tenth Avenue Marine Terminal (TAMT)** – Provision of a new lease to extend the lease expiration from 2025 to 2036 and to allow for increased throughput in refrigerated storage operations
- **TAMT Redevelopment Plan** – Provision of infrastructure investments and improvements to increase operational capabilities and capacity

The cumulative project locations are illustrated in Figure 9. The cumulative projects and their respective trip generations are shown in Table F. Trips generated by the cumulative projects were added to the existing traffic volumes at the study area intersections and roadway segments after the ambient growth rate (4 percent total growth) was applied.

It should be noted there are several projects within the City and the Port; however, cumulative projects were selected based on project type/size, location/proximity to the project site, and available information. For example, a residential development of fewer than 10 units is excluded. The trips generated by this type of project are nominal, and the ambient growth rate of 1 percent per year would account for the trip generation of all small-scale projects within the project vicinity. Therefore, LSA included all other active projects within a 1-mile radius of the project site that would generate trips within the study area. Projects that are inactive, located farther away from the project site, or outside the study area were not included in the cumulative analysis. Projects that would only generate temporary construction trips were also removed from consideration. The Dole Fresh Fruit Refrigerated Rack Improvement project was considered as a cumulative project, but LSA is unable to estimate the trip generation because detailed project information is not available at this time.



LSA

LEGEND

- Project Site
- # - Study Area Intersection

FIGURE 9

N

0 650 1300

FEET

SOURCE: Google Maps

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Pier 1 North Drydock Project

Cumulative Project Locations

Table F: Cumulative Projects Trip Generation

	Land Use	Size	Unit	ADT	AM Peak Hour			PM Peak Hour		
					In	Out	Total	In	Out	Total
Trip Rates[1]										
220	Apartment		DU	6.65	0.10	0.41	0.51	0.40	0.22	0.62
230	Residential Condominium/Townhouse		DU	5.81	0.07	0.37	0.44	0.35	0.17	0.52
252	Senior Adult Housing - Attached		DU	3.44	0.07	0.13	0.20	0.14	0.12	0.25
522	Middle School/ Junior High School		Student	1.62	0.30	0.24	0.54	0.08	0.08	0.16
540	Junior/ Community College		TSF	27.49	2.21	0.78	2.99	1.47	1.07	2.54
820	Shopping Center		TSF	42.70	0.60	0.36	0.96	1.78	1.93	3.71
934	Fast-Food Restaurant with Drive-Through		TSF	496.12	23.16	22.26	45.42	16.98	15.67	32.65
Cumulative Projects Trip Generation										
1	**Cesar Chavez Education Center**									
	Community College	*67.924*	*TSF*	*1,867*	*150*	*53*	*203*	*100*	*73*	*173*
2	**COMM 22**									
	Apartments	130	DU	865	13	53	66	52	28	80
	Townhomes/ Lofts	52	DU	302	4	19	23	18	9	27
	Senior Housing	70	DU	241	5	9	14	9	8	17
	Mixed Use Commercial/Retail	25	TSF	1,068	15	9	24	45	48	93
	Total			*2,475*	*37*	*90*	*127*	*124*	*93*	*217*
3	**Jack-In-the-Box**									
	Fast Food Restaurant with Drive Through	*2.588*	*TSF*	*1,284*	*60*	*58*	*118*	*44*	*41*	*85*
4	**Albert Einstein Academy**									
	Middle School/ Junior High School	*600*	*Students*	*972*	*178*	*146*	*324*	*47*	*49*	*96*
5	**Shipyard Sediment Remediation Project Construction**[3]									
	Staging Areas 1, 2, 3, & 5			348	44	15	59	15	44	59
	Staging Areas 4A South Lot			261	33	11	44	11	33	44
	Staging Areas 4B North Lot			84	11	4	15	4	11	15
	Total			*693*	*88*	*30*	*118*	*30*	*88*	*118*
6	**San Diego Refrigerated Services**									
	Total			*148*	*16*	*8*	*24*	*8*	*16*	*24*
7	**Tenth Avenue Marine Terminal Redevelopment Plan**									
	Total			*499*	*235*	*2*	*237*	*2*	*235*	*237*
Total				**7,938**	**764**	**387**	**1,151**	**355**	**595**	**950**

[1] Trip rates referenced from the Institute of Transportation Engineers *Trip Generation*, 9th Edition (2012).

[2] Trip generation referenced from San Diego Convention Center Expansion: Phase 3 Draft Environmental Impact Report (Fehr & Peers) - Approved 2013.

[3] Trip generation referenced from the Shipyard Sediment Project Traffic Impact Analysis (LSA Associates, Inc.) - Approved 2012

DU = dwelling unit

TSF = thousand square feet

Therefore, this project was not included in the cumulative analysis. However, the total ambient growth of 4 percent would include trips generated by this project.

Cumulative No Project Conditions and LOS Analysis. The resulting cumulative a.m. and p.m. peak-hour traffic volumes are shown in Figure 10. Table G summarizes the results of the cumulative a.m. and p.m. peak-hour LOS analysis for the study area intersections. The cumulative LOS calculation worksheets are provided as Appendix G. As Table G indicates, all study area intersections are forecast to operate at an acceptable LOS (D or better) in the a.m. and p.m. peak hours, with the exception of the following:

- 28th Street/SR-94 Westbound Ramps (LOS F during the p.m. peak hour)
- 28th Street/SR-94 Eastbound Ramps (LOS F during the p.m. peak hour)
- I-5 Southbound On-Ramp/Boston Avenue (LOS F during the p.m. peak hour)

Figure 11 presents the cumulative ADT at the study area roadway segments. Table H summarizes the ADT volumes and v/c ratios for the study area roadway segments in the cumulative condition. As shown on Table H, all study area roadway segments are forecast to operate at an acceptable LOS (LOS D or better), with the exception of the following:

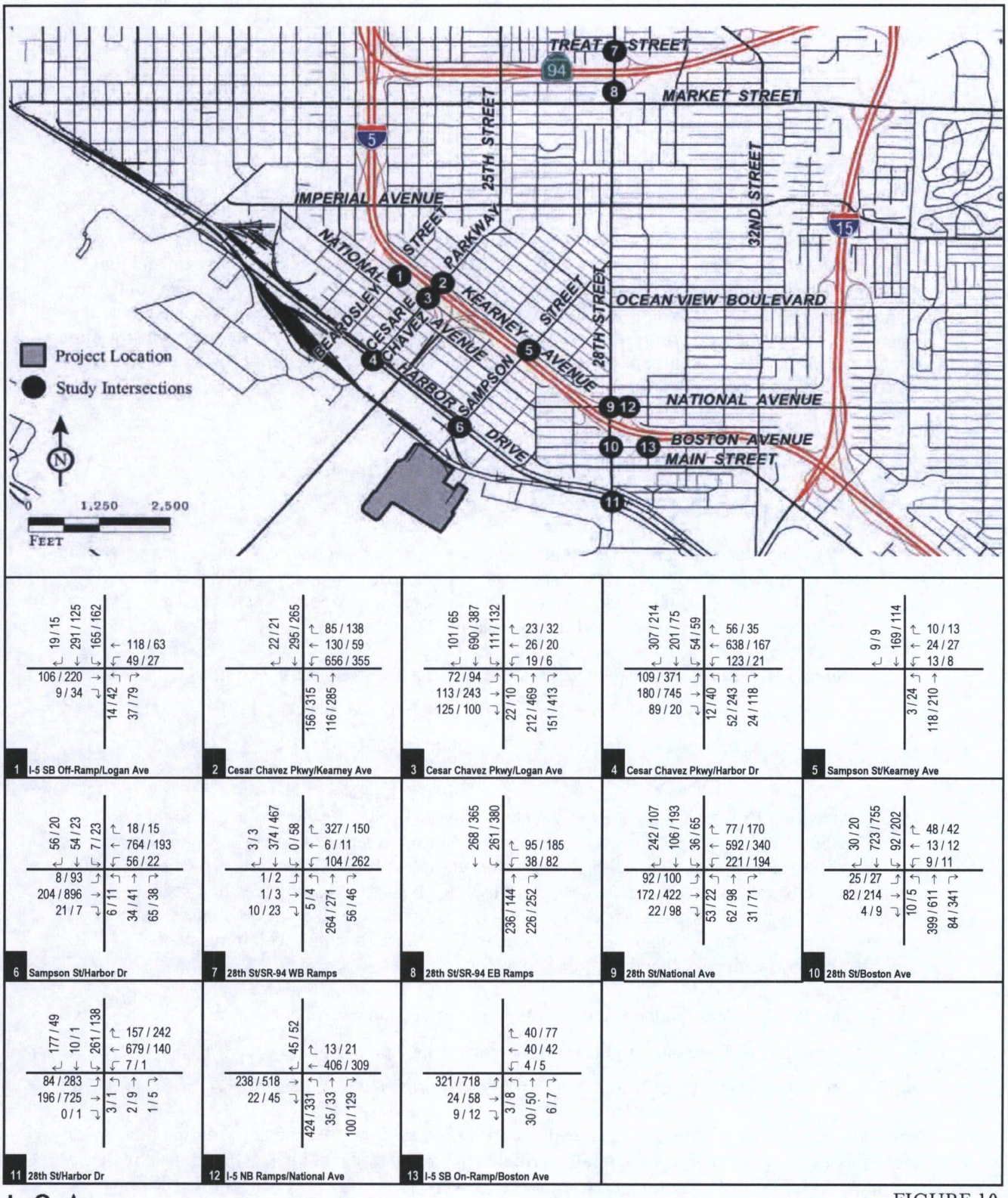
- 28th Street between SR-94 Eastbound Ramps and Sampson Street (LOS E)
- National Avenue between 28th Street and the I-5 Northbound Ramps (LOS F)
- Boston Avenue between 28th Street and the I-5 Southbound Ramp (LOS F)

Cumulative Plus Project Conditions and LOS Analysis. Project traffic was added to the cumulative traffic volumes at the study area intersections and roadway segments. Figure 12 presents the cumulative plus project a.m. and p.m. peak-hour volumes. Table I summarizes the results of the cumulative plus project a.m. and p.m. peak-hour LOS analysis for all study area intersections. The LOS worksheets are provided as Appendix H. As Table I indicates, all study area intersections are forecast to operate at an acceptable LOS (D or better) in both peak hours with implementation of the proposed project, with the exception of the following:

- 28th Street/SR-94 Westbound Ramps (LOS F during the p.m. peak hour)
- 28th Street/SR-94 Eastbound Ramps (LOS F during the p.m. peak hour)
- I-5 Southbound On-Ramp/Boston Avenue (LOS F during the p.m. peak hour)

However, the project will not generate vehicle trips or increase intersection delay during the a.m. or p.m. peak hour. As such, the project traffic will not create a significant intersection impact in the cumulative plus project condition, based on the City's and the SANTEC/ITE significance criteria.

Figure 13 presents the cumulative plus project ADT. Table J summarizes the ADT volumes and v/c ratios for the study area roadway segments in the cumulative condition with the addition of project traffic.



LSA

FIGURE 10

XXXX / YYYY AM / PM Peak Hour Volumes

Pier 1N Drydock
Traffic Impact Study
Cumulative No Project Peak Hour Traffic Volumes

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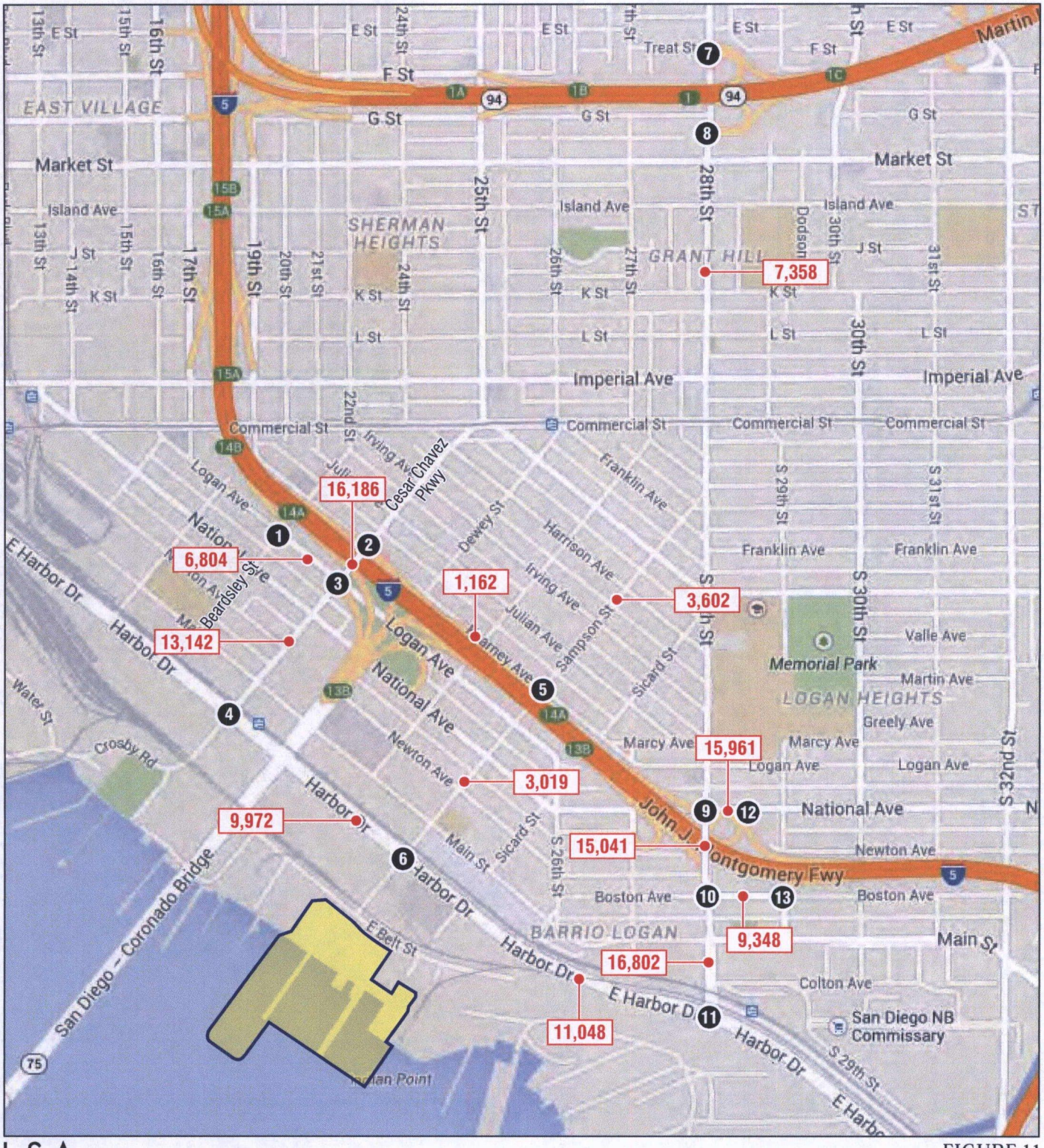
Table G: Cumulative No Project Intersection Level of Service Summary

	Intersection	Control Type	Cumulative No Project			
			AM Peak Hour		PM Peak Hour	
			Delay (sec)	LOS	Delay (sec)	LOS
1	I-5 Southbound Off-Ramp/Logan Ave	Unsignalized	15.1	C	11.5	B
2	Cesar Chavez Pkwy/Kearney Ave	Signalized	35.0	D	33.5	C
3	Cesar Chavez Pkwy/Logan Ave	Signalized	28.7	C	28.9	C
4	Cesar Chavez Pkwy/Harbor Dr	Signalized	37.5	D	32.6	C
5	Sampson St/Kearney Ave	Unsignalized	10.2	B	10.4	B
6	Sampson St/Harbor Dr	Signalized	30.4	C	28.7	C
7	28th St/SR-94 Westbound Ramps	Unsignalized	24.2	C	260.9	F
8	28th St/SR-94 Eastbound Ramps	Unsignalized	32.9	D	101.8	F
9	28th St/National Ave	Signalized	45.1	D	37.7	D
10	28th St/Boston Ave	Signalized	22.6	C	23.6	C
11	28th St/Harbor Dr	Signalized	40.1	D	25.9	C
12	I-5 Northbound Ramps/National Ave	Signalized	23.7	C	29.1	C
13	I-5 Southbound On-Ramp/Boston Ave	Unsignalized	12.4	B	292.5	F

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria



LSA

LEGEND

- Project Site
- X,XXX - Average Daily Traffic Volume

FIGURE 11

SOURCE: Google Maps

Pier 1 North Drydock Project

Cumulative No Project Daily Traffic Volumes

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Table H: Cumulative No Project Roadway Segment Level of Service Summary

Roadway	Segment	Roadway Classification	Capacity	Cumulative No Project		
				Volume	LOS	V/C
Logan Avenue	I-5 Southbound Off-Ramp to Cesar Chavez	3 Lane Collector (with TWLT)	22,500	6,804	A	0.30
Cesar Chavez Parkway	Kearney Avenue to Logan Avenue	4 Lane Collector	30,000	16,186	C	0.54
	Logan Avenue to Harbor Drive	4 Lane Collector	30,000	13,142	B	0.44
Kearney Avenue	Cesar Chavez Parkway to Sampson Street	One Lane Collector	4,000	1,162	A	0.29
Harbor Drive	Cesar Chavez Parkway to Sampson Street	4 Lane Major Arterial	40,000	9,972	A	0.25
	Sampson Street to 28th Street	4 Lane Major Arterial	40,000	11,048	A	0.28
Sampson Street	28th Street to Kearney Avenue	2 Lane Collector (no TWLT)	8,000	3,602	C	0.45
	Kearney Avenue to Harbor Drive	2 Lane Collector (no TWLT)	8,000	3,019	B	0.38
28th Street	SR-94 Eastbound Ramps to Sampson Street	2 Lane Collector (no TWLT)	8,000	7,358	E	0.92
	National Avenue to Boston Avenue	3 Lane Collector (with TWLT)	22,500	15,041	D	0.67
	Boston Avenue to Harbor Drive	4 Lane Major Arterial	40,000	16,802	B	0.42
National Avenue	28th Street to I-5 Northbound Ramps	3 Lane Collector (no TWLT)	11,250	15,961	F	1.42
Boston Avenue	28th Street to I-5 Southbound On-Ramp	2 Lane Collector (no TWLT)	8,000	9,348	F	1.17

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria

V/C = volume-to-capacity ratio

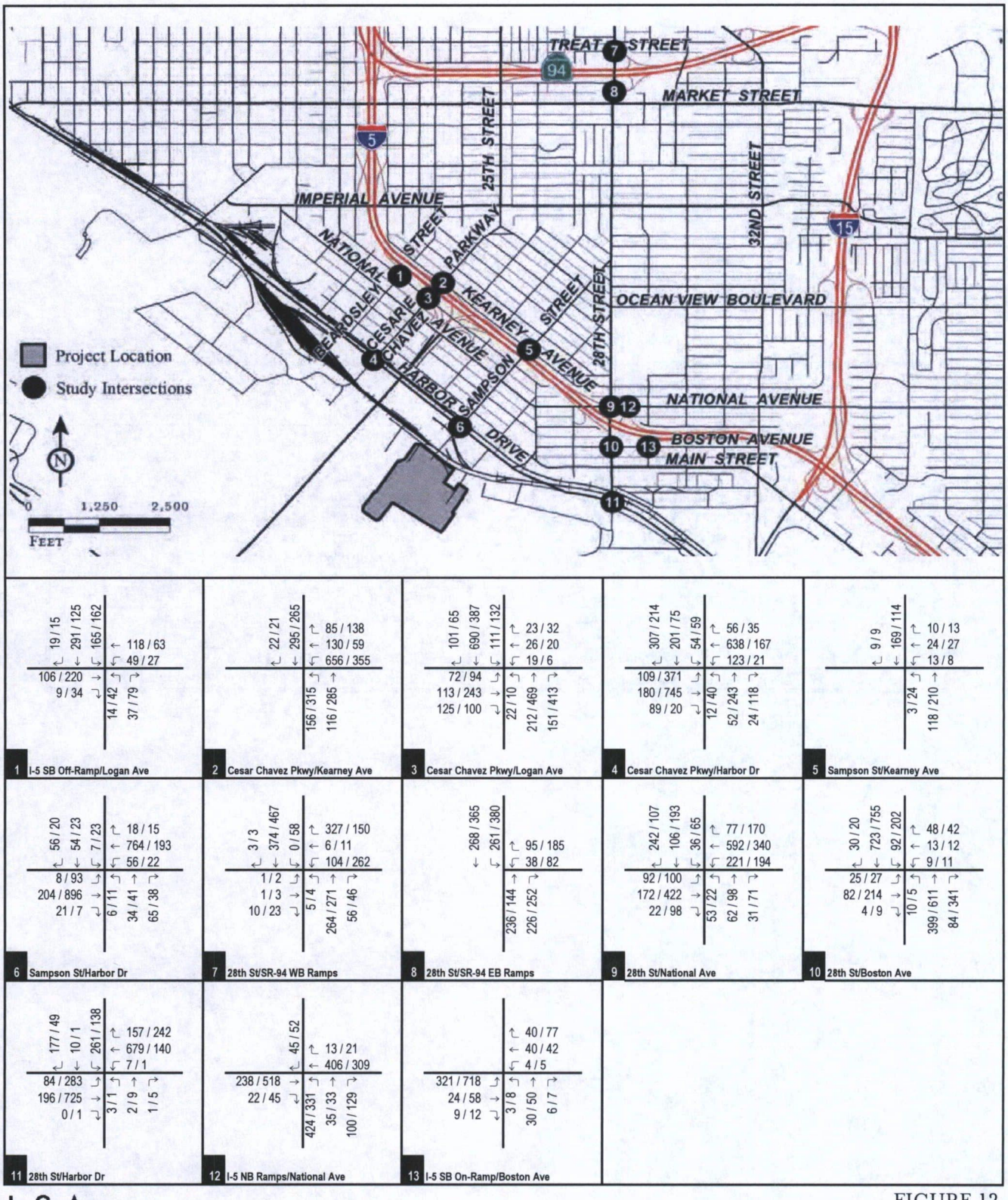

FIGURE 12

XXXX / YYYY AM / PM Peak Hour Volumes

Pier 1N Drydock

Traffic Impact Study

Cumulative Plus Project Peak Hour Traffic Volumes

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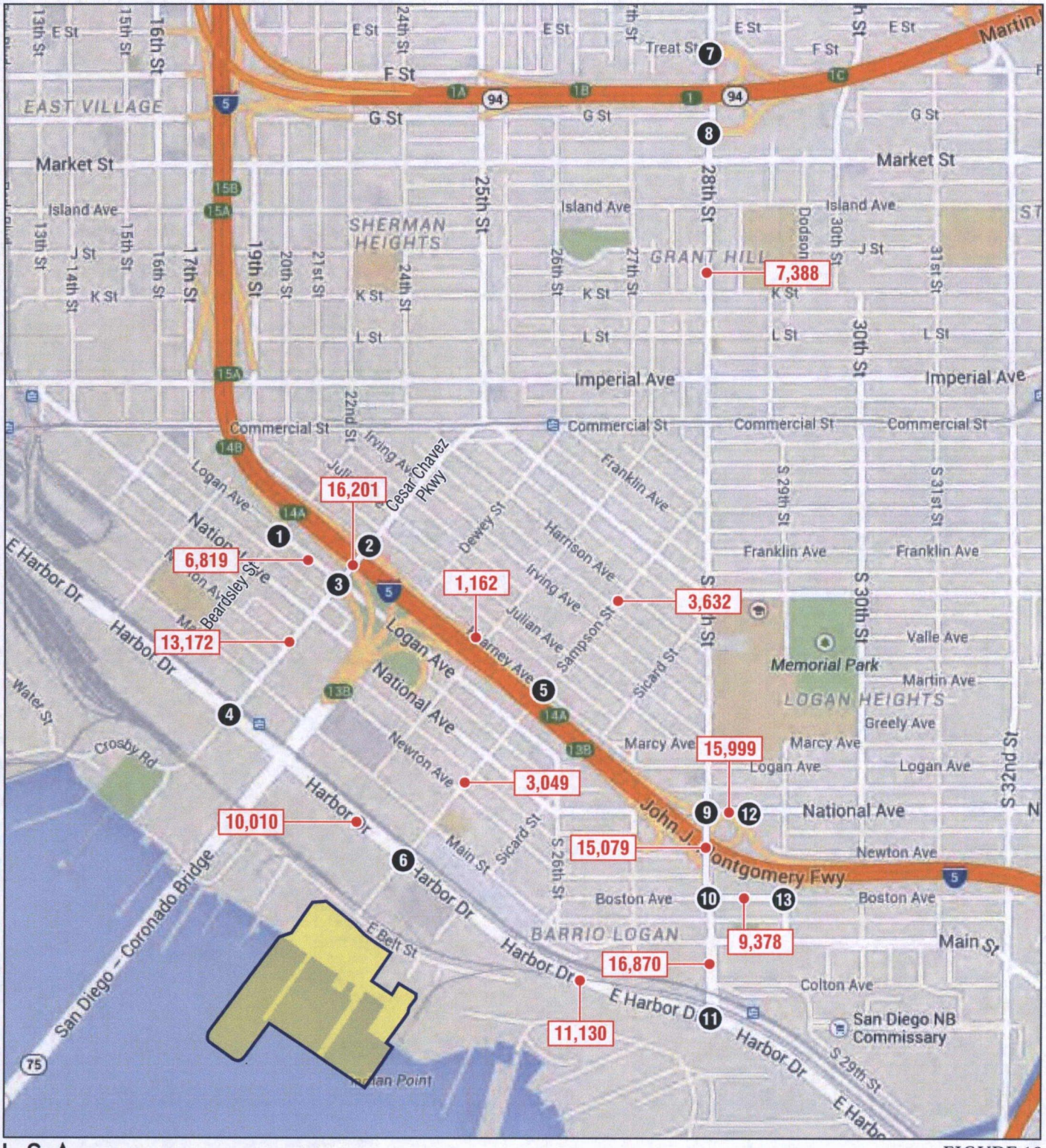
Table I: Cumulative Plus Project Intersection Level of Service Summary

	Intersection	Cumulative No Project				Cumulative Plus Project					
		AM Peak Hour		PM Peak Hour		AM Peak Hour			PM Peak Hour		
		Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	△	Delay (sec)	LOS	△
1	I-5 Southbound Off-Ramp/Logan Ave	15.1	C	11.5	B	15.1	C	0.0	11.5	B	0.0
2	Cesar Chavez Pkwy/Kearney Ave	35.0	D	33.5	C	35.0	D	0.0	33.5	C	0.0
3	Cesar Chavez Pkwy/Logan Ave	28.7	C	28.9	C	28.7	C	0.0	28.9	C	0.0
4	Cesar Chavez Pkwy/Harbor Dr	37.5	D	32.6	C	37.5	D	0.0	32.6	C	0.0
5	Sampson St/Kearney Ave	10.2	B	10.4	B	10.2	B	0.0	10.4	B	0.0
6	Sampson St/Harbor Dr	30.4	C	28.7	C	30.4	C	0.0	28.7	C	0.0
7	28th St/SR-94 Westbound Ramps	24.2	C	260.9	F	24.2	C	0.0	260.9	F	0.0
8	28th St/SR-94 Eastbound Ramps	32.9	D	101.8	F	32.9	D	0.0	101.8	F	0.0
9	28th St/National Ave	45.1	D	37.7	D	45.1	D	0.0	37.7	D	0.0
10	28th St/Boston Ave	22.6	C	23.6	C	22.6	C	0.0	23.6	C	0.0
11	28th St/Harbor Dr	40.1	D	25.9	C	40.1	D	0.0	25.9	C	0.0
12	I-5 Northbound Ramps/National Ave	23.7	C	29.1	C	23.7	C	0.0	29.1	C	0.0
13	I-5 Southbound On-Ramp/Boston Ave	12.4	B	292.5	F	12.4	B	0.0	292.5	F	0.0

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria



LSA

LEGEND

- Project Site

X,XXX - Average Daily Traffic Volume

0 600 1200

FEET

SOURCE: Google Maps

FIGURE 13

Pier 1 North Drydock Project

Cumulative Plus Project Daily Traffic Volumes

I:\PTO1402\G\Traffic\Cumulative+Proj Volumes.cdr (3/25/15)

Table J: Cumulative Plus Project Roadway Segment Level of Service Summary

Roadway	Segment	Capacity	Cumulative No Project			Project ADT	Cumulative Plus Project			
			Volume	LOS	V/C		Volume	LOS	V/C	△
Logan Avenue	I-5 Southbound Off-Ramp to Cesar Chavez	22,500	6,804	A	0.30	15	6,819	A	0.30	0.00
Cesar Chavez Parkway	Kearney Avenue to Logan Avenue	30,000	16,186	C	0.54	15	16,201	C	0.54	0.00
	Logan Avenue to Harbor Drive	30,000	13,142	B	0.44	30	13,172	B	0.44	0.00
Kearney Avenue	Cesar Chavez Parkway to Sampson Street	4,000	1,162	A	0.29	0	1,162	A	0.29	0.00
Harbor Drive	Cesar Chavez Parkway to Sampson Street	40,000	9,972	A	0.25	38	10,010	A	0.25	0.00
	Sampson Street to 28th Street	40,000	11,048	A	0.28	82	11,130	A	0.28	0.00
Sampson Street	28th Street to Kearney Avenue	8,000	3,602	C	0.45	30	3,632	C	0.45	0.00
	Kearney Avenue to Harbor Drive	8,000	3,019	B	0.38	30	3,049	B	0.38	0.00
28th Street	SR-94 Eastbound Ramps to Sampson Street	8,000	7,358	E	0.92	30	7,388	E	0.92	0.00
	National Avenue to Boston Avenue	22,500	15,041	D	0.67	38	15,079	D	0.67	0.00
	Boston Avenue to Harbor Drive	40,000	16,802	B	0.42	68	16,870	B	0.42	0.00
National Avenue	28th Street to I-5 Northbound Ramps	11,250	15,961	F	1.42	38	15,999	F	1.42	0.00
Boston Avenue	28th Street to I-5 Southbound On-Ramp	8,000	9,348	F	1.17	30	9,378	F	1.17	0.00

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria

V/C = volume-to-capacity ratio

As shown on Table J, all study area roadway segments are forecast to operate at an acceptable LOS (LOS D or better) with the addition of project traffic, with the exception of the following:

- 28th Street between SR-94 Eastbound Ramps and Sampson Street (LOS E)
- National Avenue between 28th Street and the I-5 Northbound Ramps (LOS F)
- Boston Avenue between 28th Street and the I-5 Southbound Ramp (LOS F)

The addition of project traffic will not increase the v/c ratio greater than 0.01 along these segments. Therefore, implementation of the project would not cause a significant impact along a study area roadway segment in the cumulative condition.

Construction Impacts

Construction Trip Generation. Construction activities will consist of the Pier 1N Drydock construction and removal of the cooling tunnels on the neighboring TUOP parcel. To determine the average construction traffic destined to/from the project site on a typical day, the project applicant provided data that included the duration and total number of workers and trucks for each phase of Pier 1N Drydock construction and removal of the cooling tunnels. The six phases of Pier 1N Drydock construction (including duration and daily workers and trucks) are as follows.

Construction

- Phase I – Pier 1N Submerged Wall (8 months): 20 workers and 1 truck
- Phase II – Demolition of Existing Pier 1 Mooring Dolphin (1 month): 6 workers and 1 truck
- Phase III – Dredging (Upland Disposal) (1 month): 10 workers and 31 trucks
- Phase IV – Dredging (Ocean Disposal) (6 months): 8 workers
- Phase V – Wharf and Mooring Dolphin Construction (6 months): 20 workers and 1 truck
- Phase VI – Shoreline and Utilities Construction (3 months): 15 workers and 1 truck

Based on this data, a total of approximately 79 workers and 35 trucks could be destined to the project site on the busiest day, which is during the potential overlap of all six phases of Pier 1N Drydock construction.

The four phases of cooling tunnel removal (including duration and daily workers and trucks) are as follows.

Cooling Tunnel Removal

- Phase I – Coferdam Installation (1 month): 20 workers and 1 truck
- Phase II – Removal of Concrete Debris and Soil (5 months): 10 workers and 15 trucks
- Phase III – Infill of Clean Soil (Upland Disposal) (5 months): 10 workers and 23 trucks
- Phase IV – Coferdam Removal (Ocean Disposal) (1 month): 20 workers and 1 truck

Each phase of cooling tunnel removal must occur in succession. A phase cannot begin unless a previous phase has been completed. Therefore, none of the phases will overlap. As such, the busiest day of cooling tunnel removal would occur during Phase III. Based on this information, approximately 10 workers and 23 trucks could be destined to the project site for removal of the cooling tunnels.

To analyze conservative, worst-case construction conditions, the simultaneous construction of the Pier 1N Drydock (overlapping Phases 1 through VI) and the removal of the cooling tunnels (Phase III) have been assumed. As such, a total of approximately 89 workers and 58 trucks could be destined to the project site. Table K provides the trip generation to and from the project site for each individual construction/removal phase, as well as the total trip generation for the simultaneous construction and removal phases.

As previously discussed, 20 percent of BAE employees utilize transit, carpool, or other alternative means of transportation. Therefore, it is anticipated that 20 percent of construction workers will also utilize transit or carpool. The remaining 80 percent will drive themselves to/from the project site. During construction of the Pier 1N Drydock and removal of the cooling tunnels, 89 workers would generate approximately 143 ADT and zero peak-hour trips.

Truck trips will occur during a 10-hour period between 6:00 a.m. and 4:00 p.m. (i.e., truck trips would not occur during the p.m. peak hour). Each truck represents 2 ADT (i.e., 1 inbound trip and 1 outbound trip). To convert the daily trucks to peak-hour truck traffic, LSA divided the trucks by 10 hours and split the ingress and egress evenly since it is anticipated that trucks will travel back and forth throughout the day. Of the 58 trucks, approximately five will access the site during the a.m. peak hour. For purposes of this analysis, the truck trips were converted to passenger car equivalent (PCE) trips at a ratio of 2.5 passenger cars per truck, consistent with the guidance in the HCM. During construction of the Pier 1N Drydock and removal of the cooling tunnels, 58 trucks would generate approximately 290 PCE ADT and 26 PCE a.m. peak-hour trips (13 inbound and 13 outbound).

As shown on Table K, a total of 433 ADT (143 worker ADT and 290 truck PCE ADT) and 26 a.m. peak-hour trips (13 inbound and 13 outbound) would be generated to and from the project site.

Construction Trip Distribution. The trip distribution for workers and trucks is approximately 60 percent destined to the north and 40 percent destined to the south along I-5. However, sediment that is dredged during Phase III (Dredging [Upland Disposal]) will be transported to the Otay Landfill. Phase III haul trucks would access the I-5 south, via the designated truck route of E. Harbor Drive. The preferred route to Otay Landfill is I-5 south, to State Route 54 east, to Interstate 805 south. Therefore, for purposes of construction, it is assumed that 100 percent of the haul truck trips are destined to the south via I-5.

Existing Plus Construction Conditions and LOS Analysis. Construction traffic was added to the existing traffic volumes at the study area intersections and roadway segments. Figure 14 presents the existing plus construction a.m. and p.m. peak-hour volumes. Table L summarizes the results of the existing plus construction a.m. and p.m. peak-hour LOS analysis for all study area intersections.

Table K: Construction Trip Generation Summary

Pier 1N Drydock Construction

Phase			Vehicles				Vehicle Trip Generation							PCE Trip Generation						
								AM Peak Hour			PM Peak Hour				AM Peak Hour			PM Peak Hour		
	Description	Duration	Description	Quantity	Type	PCE	ADT	in	out	total	in	out	total	ADT	in	out	total	in	out	total
			Construction Workers [1]	20	Passenger	1	32	0	0	0	0	0	0	32	0	0	0	0	0	0
	Pier 1N		Truck [2]	1	Large Truck	2.5	2	0	0	0	0	0	0	5	0	0	0	0	0	0
I	*Submerged Wall*	*8 months*	*Total*				*34*	*0*	*0*	*0*	*0*	*0*	*0*	*37*	*0*	*0*	*0*	*0*	*0*	*0*
			Construction Workers [1]	6	Passenger	1	10	0	0	0	0	0	0	10	0	0	0	0	0	0
	Demolition of Existing		Truck [2]	1	Large Truck	2.5	2	0	0	0	0	0	0	5	0	0	0	0	0	0
II	*Pier 1 Mooring Dolphin*	*1 month*	*Total*				*12*	*0*	*0*	*0*	*0*	*0*	*0*	*15*	*0*	*0*	*0*	*0*	*0*	*0*
			Construction Workers [1]	10	Passenger	1	16	0	0	0	0	0	0	16	0	0	0	0	0	0
	Dredging		Truck [2]	31	Large Truck	2.5	62	3	3	6	0	0	0	155	8	8	16	0	0	0
III	*(Upland Dispososal)*	*1 month*	*Total*				*78*	*3*	*3*	*6*	*0*	*0*	*0*	*171*	*8*	*8*	*16*	*0*	*0*	*0*
			Construction Workers [1]	8	Passenger	1	13	0	0	0	0	0	0	13	0	0	0	0	0	0
	Dredging		Truck [2]	0	Large Truck	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IV	*(Ocean Disposal)*	*6 months*	*Total*				*13*	*0*	*0*	*0*	*0*	*0*	*0*	*13*	*0*	*0*	*0*	*0*	*0*	*0*
			Construction Workers [1]	20	Passenger	1	32	0	0	0	0	0	0	32	0	0	0	0	0	0
	Wharf and Mooring		Truck [2]	1	Large Truck	2.5	2	0	0	0	0	0	0	5	0	0	0	0	0	0
V	*Dolphin Construction*	*6 months*	*Total*				*34*	*0*	*0*	*0*	*0*	*0*	*0*	*37*	*0*	*0*	*0*	*0*	*0*	*0*
			Construction Workers [1]	15	Passenger	1	24	0	0	0	0	0	0	24	0	0	0	0	0	0
	Shoreline and		Truck [2]	1	Large Truck	2.5	2	0	0	0	0	0	0	5	0	0	0	0	0	0
VI	*Utilities Construction*	*3 months*	*Total*				*26*	*0*	*0*	*0*	*0*	*0*	*0*	*29*	*0*	*0*	*0*	*0*	*0*	*0*
Total (Overlapping Construction of Phases I-VI)							*196*	*3*	*3*	*6*	*0*	*0*	*0*	*302*	*8*	*8*	*16*	*0*	*0*	*0*

Cooling Tunnel Removal

Phase			Vehicles				Vehicle Trip Generation							PCE Trip Generation						
								AM Peak Hour			PM Peak Hour				AM Peak Hour			PM Peak Hour		
	Description	Duration	Description	Quantity	Type	PCE	ADT	in	out	total	in	out	total	ADT	in	out	total	in	out	total
			Construction Workers [1]	20	Passenger	1	32	0	0	0	0	0	0	32	0	0	0	0	0	0
			Truck [2]	1	Large Truck	2.5	2	0	0	0	0	0	0	5	0	0	0	0	0	0
I	*Coferdam Installation*	*1 month*	*Total*				*34*	*0*	*0*	*0*	*0*	*0*	*0*	*37*	*0*	*0*	*0*	*0*	*0*	*0*
			Construction Workers [1]	10	Passenger	1	16	0	0	0	0	0	0	16	0	0	0	0	0	0
	Removal of		Truck [2]	15	Large Truck	2.5	30	2	2	4	0	0	0	75	5	5	10	0	0	0
II	*Concrete Debris and Soil*	*5 months*	*Total*				*46*	*2*	*2*	*4*	*0*	*0*	*0*	*91*	*5*	*5*	*10*	*0*	*0*	*0*
			Construction Workers [1]	10	Passenger	1	16	0	0	0	0	0	0	16	0	0	0	0	0	0
	Infill of		Truck [2]	23	Large Truck	2.5	46	2	2	4	0	0	0	115	5	5	10	0	0	0
III	*Clean Soil*	*5 months*	*Total*				*62*	*2*	*2*	*4*	*0*	*0*	*0*	*131*	*5*	*5*	*10*	*0*	*0*	*0*
			Construction Workers [1]	20	Passenger	1	32	0	0	0	0	0	0	32	0	0	0	0	0	0
			Truck [2]	1	Large Truck	2.5	2	0	0	0	0	0	0	5	0	0	0	0	0	0
IV	*Coferdam Removal*	*1 month*	*Total*				*34*	*0*	*0*	*0*	*0*	*0*	*0*	*37*	*0*	*0*	*0*	*0*	*0*	*0*

Pier 1N Drydock Construction and Cooling Tunnel Removal

	Vehicle Trip Generation							PCE Trip Generation						
		AM Peak Hour			PM Peak Hour				AM Peak Hour			PM Peak Hour		
Description	ADT	in	out	total	in	out	total	ADT	in	out	total	in	out	total
Pier 1N Drydock	*196*	*3*	*3*	*6*	*0*	*0*	*0*	*302*	*8*	*8*	*16*	*0*	*0*	*0*
Cooling Tunnel Phase III	*62*	*2*	*2*	*4*	*0*	*0*	*0*	*131*	*5*	*5*	*10*	*0*	*0*	*0*
Total	*258*	*5*	*5*	*10*	*0*	*0*	*0*	*433*	*13*	*13*	*26*	*0*	*0*	*0*

Source: LSA Associates, March 2015

[1] Approximately 20 percent of employees/construction workers are anticipated to utilize transit or carpool. Construction workers will arrive prior to 7:00 a.m. and depart prior to 4:00 p.m. (i.e., outside both peak hours)

[2] Truck trips would occur between 6:00 a.m. and 4:00 p.m. (i.e., outside the p.m. peak hour)

PCE = passenger car equivalent. An employee vehicle has a PCE of 1 and a construction truck has a PCE of 2.5

ADT = average daily traffic

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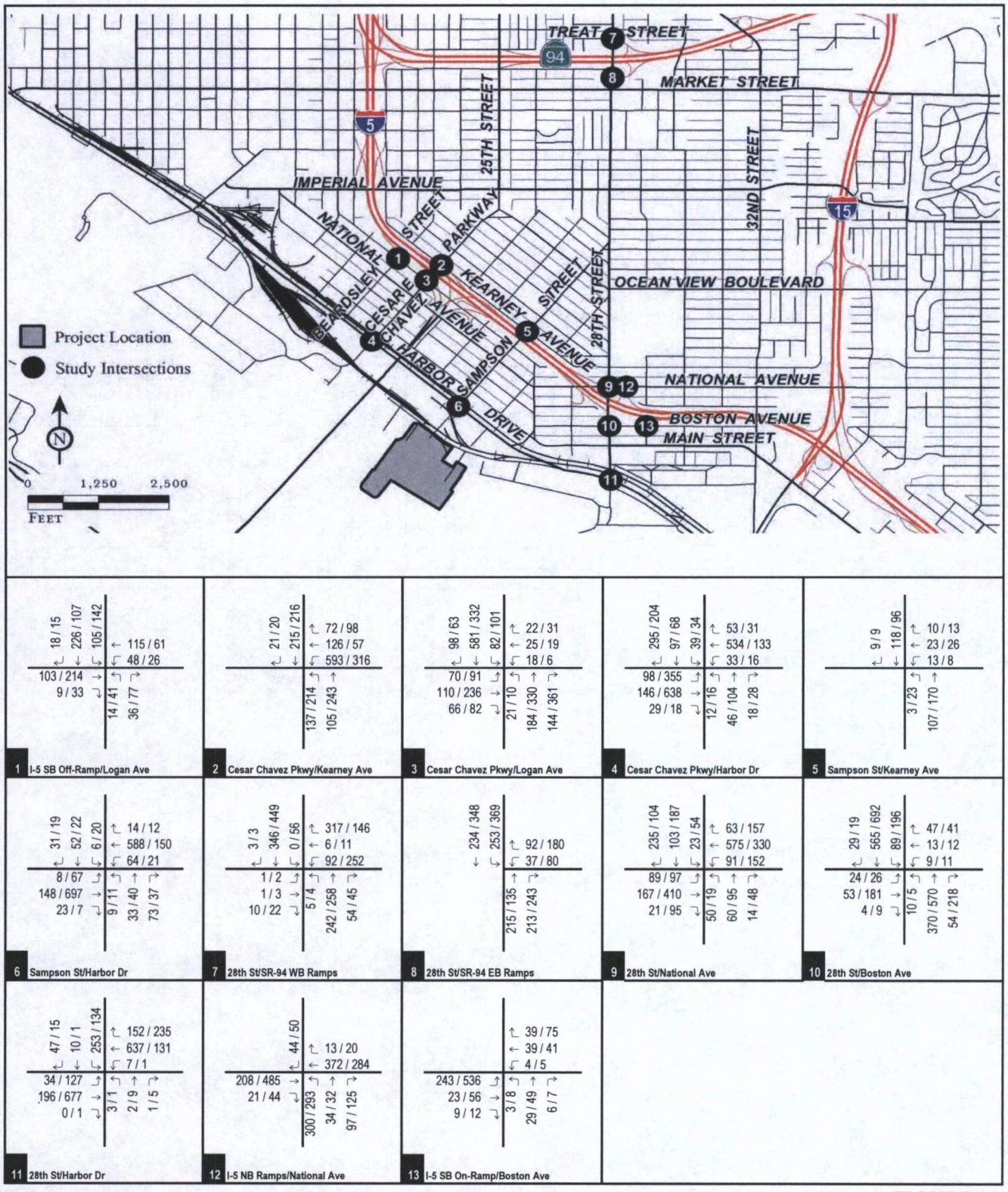

LSA

FIGURE 14

XXXX / YYYY AM / PM Peak Hour Volumes

Pier 1N Drydock
Traffic Impact Study
Existing Plus Project Construction Peak Hour Traffic Volumes

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Table L: Existing Plus Construction Intersection Level of Service Summary

		Existing No Construction				Existing Plus Construction					
		AM Peak Hour		PM Peak Hour		AM Peak Hour			PM Peak Hour		
	Intersection	Delay (sec)	LOS	Delay (sec)	LOS	Delay (sec)	LOS	△	Delay (sec)	LOS	△
1	I-5 Southbound Off-Ramp/Logan Ave	11.1	B	10.7	B	11.1	B	0.0	10.7	B	0.0
2	Cesar Chavez Pkwy/Kearney Ave	28.4	C	28.2	C	28.4	C	0.0	28.2	C	0.0
3	Cesar Chavez Pkwy/Logan Ave	17.5	B	23.5	C	17.6	B	0.1	23.5	C	0.0
4	Cesar Chavez Pkwy/Harbor Dr	20.4	C	25.7	C	20.4	C	0.0	25.7	C	0.0
5	Sampson St/Kearney Ave	9.8	A	10.0	B	9.8	A	0.0	10.0	B	0.0
6	Sampson St/Harbor Dr	30.6	C	29.8	C	31.0	C	0.4	29.8	C	0.0
7	28th St/SR-94 Westbound Ramps	19.6	C	181.4	F	20.7	C	1.1	181.4	F	0.0
8	28th St/SR-94 Eastbound Ramps	28.5	D	82.4	F	28.5	D	0.0	82.4	F	0.0
9	28th St/National Ave	38.9	D	35.3	D	39.0	D	0.1	35.3	D	0.0
10	28th St/Boston Ave	14.1	B	20.6	C	14.1	B	0.0	20.6	C	0.0
11	28th St/Harbor Dr	33.3	C	33.9	C	33.1	C	-0.2	33.9	C	0.0
12	I-5 Northbound Ramps/National Ave	19.7	B	19.7	B	19.7	B	0.0	19.7	B	0.0
13	I-5 Southbound On-Ramp/Boston Ave	10.9	B	50.1	F	11.0	B	0.1	50.1	F	0.0

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria

The LOS worksheets are provided as Appendix I. As Table L indicates, all study area intersections will continue to operate at an acceptable LOS (D or better) in both peak hours with implementation of the proposed project, with the exception of the following:

- 28th Street/SR-94 Westbound Ramps (LOS F during the p.m. peak hour)
- 28th Street/SR-94 Eastbound Ramps (LOS F during the p.m. peak hour)
- I-5 Southbound On-Ramp/Boston Avenue (LOS F during the p.m. peak hour)

However, project construction will not generate vehicle trips or increase intersection delay during the p.m. peak hour. As such, construction traffic will not create a temporary intersection impact in the existing plus project condition, based on the City's and the SANTEC/ITE significance criteria.

Figure 15 presents the existing plus construction ADT. Table M summarizes the ADT volumes and v/c ratios for the study area roadway segments in the existing condition with the addition of construction traffic. As shown on Table M, the roadway segments are forecast to operate at an acceptable LOS (LOS D or better) with the addition of construction traffic, with the exception of the following:

- 28th Street between SR-94 Eastbound Ramps and Sampson Street (LOS E)
- National Avenue between 28th Street and the I-5 Northbound Ramps (LOS F)
- Boston Avenue between 28th Street and the I-5 Southbound Ramp (LOS F)

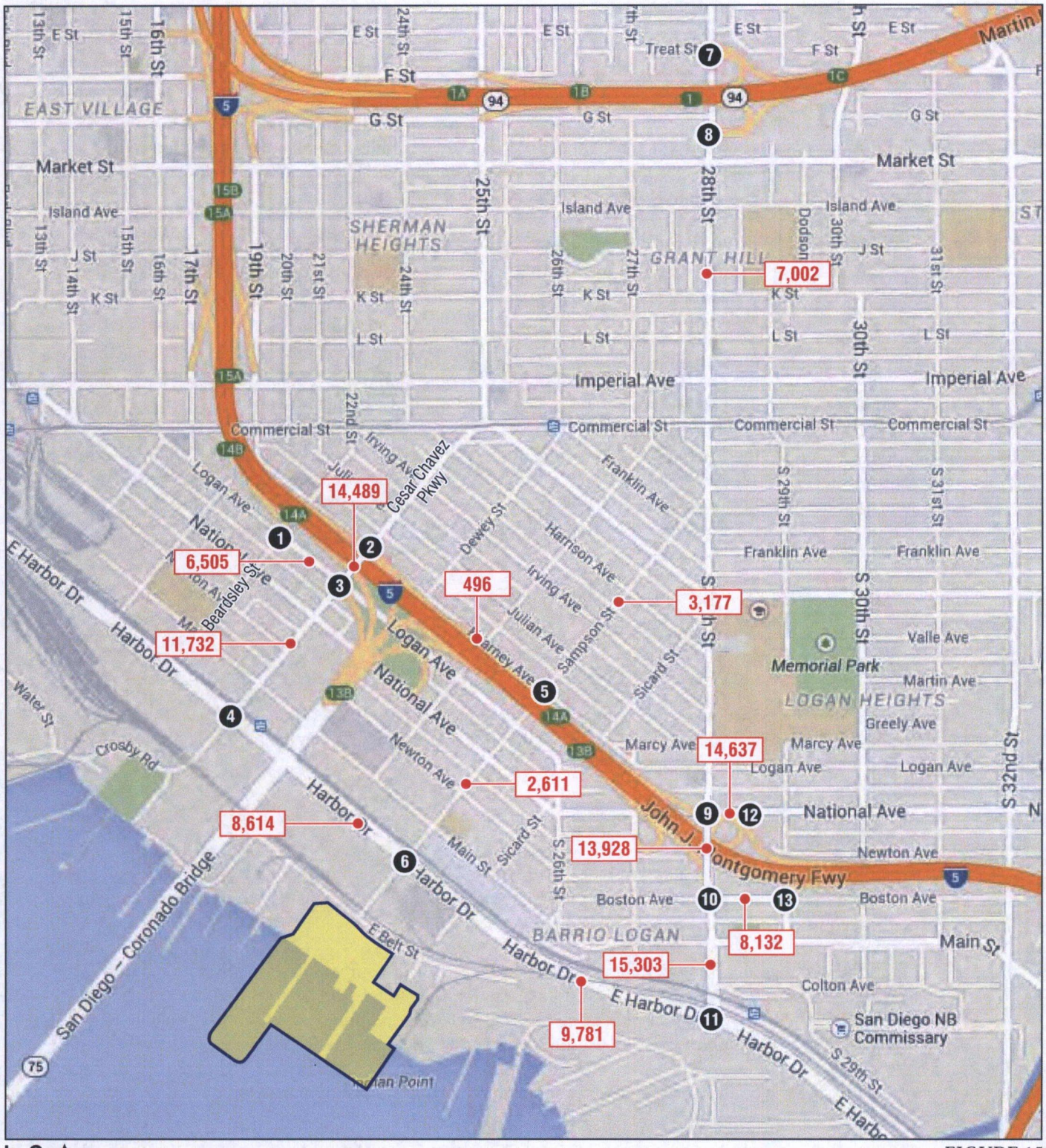
The addition of construction traffic will not increase the v/c ratio greater than 0.01 along these segments. Therefore, project construction would not cause a temporary impact along a study area roadway segment in the existing condition.

MITIGATION

Significant impacts were not determined at study area intersections and roadway segments with implementation of the project. Therefore, mitigation measures for the existing circulation system are neither required nor recommended.

In order to address a parking deficiency of 57 spaces at project completion, BAE Systems shall provide the means to increase alternative transportation ridership by 65 persons during the first shift prior to obtaining a new 184-space parking lot from SDG&E and project operation. This shall be achieved through a combination of the following alternative transportation options:

- Increasing the number of subsidized vanpools to increase the vanpool ridership
- Increasing the number of shuttles transporting employees/personnel from the Barrio Logan trolley station (located at the intersection of Cesar Chavez Parkway/Harbor Drive) and/or the Harborside trolley station (located at the intersection of 28th Street/Bay Avenue) to encourage trolley ridership
- Provision of subsidized trolley passes for existing vehicle commuters



LSA

FIGURE 15

SOURCE: Google Maps

Pier 1 North Drydock Project

Existing Plus Project Construction
Daily Traffic Volumes

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Table M: Existing Plus Construction Roadway Segment Level of Service Summary

Roadway	Segment	Capacity	Existing No Construction			Project ADT	Existing Plus Construction			△
			Volume	LOS	V/C		Volume	LOS	V/C	
Logan Avenue	I-5 Southbound Off-Ramp to Cesar Chavez	22,500	6,427	A	0.29	78	6,505	A	0.29	0.00
Cesar Chavez Parkway	Kearney Avenue to Logan Avenue	30,000	14,411	C	0.48	78	14,489	C	0.48	0.00
	Logan Avenue to Harbor Drive	30,000	11,576	B	0.39	156	11,732	B	0.39	0.00
Kearney Avenue	Cesar Chavez Parkway to Sampson Street	4,000	496	A	0.12	0	496	A	0.12	0.00
Harbor Drive	Cesar Chavez Parkway to Sampson Street	40,000	8,458	A	0.21	156	8,614	A	0.22	0.01
	Sampson Street to 28th Street	40,000	9,505	A	0.24	276	9,781	A	0.24	0.00
Sampson Street	28th Street to Kearney Avenue	8,000	3,177	B	0.40	0	3,177	B	0.40	0.00
	Kearney Avenue to Harbor Drive	8,000	2,611	B	0.33	0	2,611	B	0.33	0.00
28th Street	SR-94 Eastbound Ramps to Sampson Street	8,000	7,002	E	0.88	0	7,002	E	0.88	0.00
	National Avenue to Boston Avenue	22,500	13,892	C	0.62	36	13,928	C	0.62	0.00
	Boston Avenue to Harbor Drive	40,000	15,231	B	0.38	72	15,303	B	0.38	0.00
National Avenue	28th Street to I-5 Northbound Ramps	11,250	14,601	F	1.30	36	14,637	F	1.30	0.00
Boston Avenue	28th Street to I-5 Southbound On-Ramp	8,000	8,096	F	1.01	36	8,132	F	1.02	0.01

Source: LSA Associates, March 2015

☐ Exceeds level of service (LOS) criteria

V/C = volume-to-capacity ratio

CONCLUSION

Based on the results of this TIS, typical operations of the Pier 1N Drydock project (i.e., 93 new workers) will not create significant impacts to study area intersections or roadways segments based on worker schedules (arrival/departure times outside of the a.m. and p.m. peak hours). In addition, the anticipated construction traffic to and from the project site can be accommodated without causing a temporary impact to the study area locations.

Evaluation of the study area intersection and roadway LOS shows that the addition of project traffic to the existing and cumulative traffic volumes will not cause a significant increase in delay at the intersections or an increase in v/c ratio on the roadway segments, according to the City's and the SANTEC/ITE significance criteria. As a result, no circulation improvements are warranted.

Implementation of the project would result in a deficit of 57 parking spaces. However, BAE Systems intends to secure a 184-space parking lot from SDG&E. Until this lot is secured, measures have been recommended to address this parking shortage. These alternative transportation options include increasing the number of subsidized vanpools, increasing the number of shuttles to/from trolley stations in the project vicinity, and provision of subsidized trolley passes.

REFERENCES

City of San Diego, *Traffic Impact Study Manual* (July 1998).

———. Barrio Logan Community Plan (January 2014).

———. General Plan Mobility Element (March 2008).

San Diego Association of Governments (SANDAG), 2050 Regional Transportation Plan (RTP) (October 2011).

———. Bayshore Bikeway Plan (March 2006).

———. Congestion Management Plan (CMP) (November 2008).

San Diego Traffic Engineers' Council/Institute of Transportation Engineers (SANTEC/ITE), *Guidelines for Traffic Impact Studies in the San Diego Region* (March 2000).

Transportation Research Board, Highway Capacity Manual 2010 (HCM) (2010).

APPENDIX A

PROJECT DESCRIPTION

Technical Studies

Project Description

In order to assess a project's potential effect on the environment, a description of the project is necessary and required pursuant to Section 15124 of the CEQA Guidelines. The following Project Description, to be used for the preparation of required technical studies, discusses the construction and operational characteristics of the reasonably foreseeable phases of the Proposed Project (which consists of three project components as described later in this section), the geographic setting and location, San Diego Unified Port District (District) Port Master Plan designations for the Proposed Project site, and the discretionary actions required to implement the Proposed Project. The Project Description will be used as the basis for analyzing the Proposed Project's impacts on the existing environment in the Environmental Impact Report (EIR).

BAE Systems proposes to site a new drydock (dry berth) on the north side of its Pier 1 and extend its existing lease-term based on its investments from the proposed project on the leasehold. The drydock would support the current and planned future home-porting of United States (US) Naval assets (ships) in San Diego and allow greater flexibility in the utilization of drydocking facilities. The proposed drydock would replace an existing wet berth, used for ship repair and maintenance, with a dry berth. Although the majority of the proposed project is within the District's jurisdiction, approvals from the California State Lands Commission (CSLC) and the California Coastal Commission (CCC) are required for actions associated with the portion of the drydock that is outside of the District's jurisdiction. The proposed project would also be required to obtain building permits from the City of San Diego for on-shore utility and fire protection.

BAE Systems also proposes to enter into a future, long-term real estate agreement with the District on the neighboring 2-acre land parcel and 4-acre water area under a Tidelands Use and Occupancy Permit (TUOP).[1] The future, long-term real estate agreement may include, but is not limited to, an amendment to BAE Systems' existing lease[2] with the District. The TUOP parcel (formerly known as the San Diego Gas and Electric [SDG&E] parcel) contains two existing underground intake/discharge tunnels which could be removed during or at a later phase of the proposed project.[3] Preliminary potential remediation efforts associated with the removal of the intake/discharge tunnels that exist within the District tidelands is identified and analyzed as part

[1] At the time of preparation of this Project Description, the Tidelands Use and Occupancy Permit (TUOP) with SDG&E, dated November 1, 2009 (Document No. 55689) expired on October 31, 2014. This parcel is currently leased to BAE Systems by the District via a 5-year TUOP.

[2] Lease dated September 1, 1979 (as Document No. 12223), as amended.

[3] The drydock component and the cooling tunnel component are independent of one another (i.e., the removal of the cooling tunnels are not dependent on the construction of the proposed drydock and vice versa).

of the EIR. These three project components are collectively referred to as the proposed project throughout the EIR.

1.1 PROJECT LOCATION

The BAE Systems' existing facility (i.e., leasehold) is situated along the eastern shoreline of central San Diego Bay located at 2205 East Belt Street in the City of San Diego (Figure 1). The proposed project site is bounded to the west by the San Diego Bay, to the north by R.E. Staite Engineering, to the east by the existing BAE Systems facility and other marine-related industries, and to the south by the NASSCO/General Dynamics ship building facility. The entire area is developed and/or leased to marine-related industrial businesses.

The proposed project site includes the existing 9.8 acre (landside) and 16.6-acre (waterside) BAE Systems leasehold within the District and approximately 74,300 square feet (sf) in jurisdiction of the District and is located within the jurisdiction of the CSLC. The proposed project site also includes an approximately 2-acre (landside) and 4-acre (waterside) parcel currently leased by BAE Systems through a TUOP. This TUOP parcel is located at 400 East Belt Street. Figure 2 provides an overview of the proposed project area and the applicable jurisdictional boundaries within the proposed project area. BAE Systems currently has a lease allowing for operations occurring in the portion of the project site within the CSLC's jurisdiction; however, for the portion of the drydock to be located outside of the District's jurisdiction, BAE Systems would apply directly to the CSLC for a lease amendment as well as apply to the CCC for permits and entitlements.

1.2 PROJECT SETTING

1.2.1 Existing Site Conditions

1.2.1.1 Landside Conditions

Existing facilities within the landside area of the existing BAE Systems leasehold include production shops, offices and office facilities, and related utilities and infrastructure necessary for the maintenance, repair, overhaul, and conversion of large US Naval and commercial vessels. Waterfront storm water collection tanks are located throughout the facility. Additionally, there are areas of pavement and ramps, as well as buried pipes, a valve vault, utility vaults, three underground sewage lift stations, electrical substations, and concrete revetments. Figure 3 illustrates the conditions of the existing Pier 1 and the entrance to the intake/discharge water tunnels.

BAE Systems currently leases the neighboring, northwestern 2-acre (landside) parcel from the District for parking and storage of materials. The 2-acre TUOP parcel currently has two subsurface intake/discharge water tunnels that were installed by SDG&E and previously used for intake/discharge of cooling water for the SDG&E Silvergate Power Plant.[1] The intake/

[1] The SDG&E Silvergate Power Plant ceased operations in 1984. In 2007, SDG&E completed the abatement, decontamination, and dismantlement of all interior equipment and demolition of the structure. (Cleveland Wrecking Company, website:


Project Location
Project Vicinity
San Diego County
Project Location
San Diego Bay
Coronado Municipal Golf Course
Naval Base San Diego
Barrio Logan
Sigsbee Row
Sherman Heights
Grant Hill
Logan Heights
Memorial
Southeast
Stockton
The Metropolitan Project
Pinnacle Museum Tower Condominium
Pacific Terrace
Angove Condos
East Village
Gaslamp
Marina
Petco Park
San Diego Convention Center
Marina Park
Tidelands Park
Coronado Ferry Landing Shopping Ctr
Visalia Row
Norman Scott Rd
Buchanan St
Surface Navy Blvd
Boston Ave
Church St
Le Hardy St
Colton Ave
Grunter St
Logan Ave
National Ave
Martin Ave
Greely Ave
Franklin Ave
Ocean View Blvd
Webster Ave
Clay Ave
Commercial St
Imperial Ave
Gillette St
Steel St
K St
L St
J St
Market St
Island Ave
E Harbor Dr
Harbor Dr
Water St
Terminal St
Mullinix Dr
Kettner Blvd
Pacific Hwy
Cesar E Chavez Pkwy
Kearney Ave
Logan Ave
National Ave
Newton Ave
Main St
Julian Ave
Irving Ave
Harbison Ave
Sampson St
Skeard St
Dewey St
Franklin Ave
Stewart St
Henley St
Boston Ave
Church St
Le Hardy St
Colton Ave
Grunter St
Norman Scott Rd
Buchanan St
Surface Navy Blvd
Welles St
Senn Rd
Naval Base San Diego
Knowlton Willian
McCain
Kalmus St
Bonner St
Yerba St
Wooden St
Gillette St
Steel St
Imperial Ave
Webster Ave
Clay Ave
Franklin Ave
Ocean View Blvd
Martin Ave
Greely Ave
Logan Ave
National Ave

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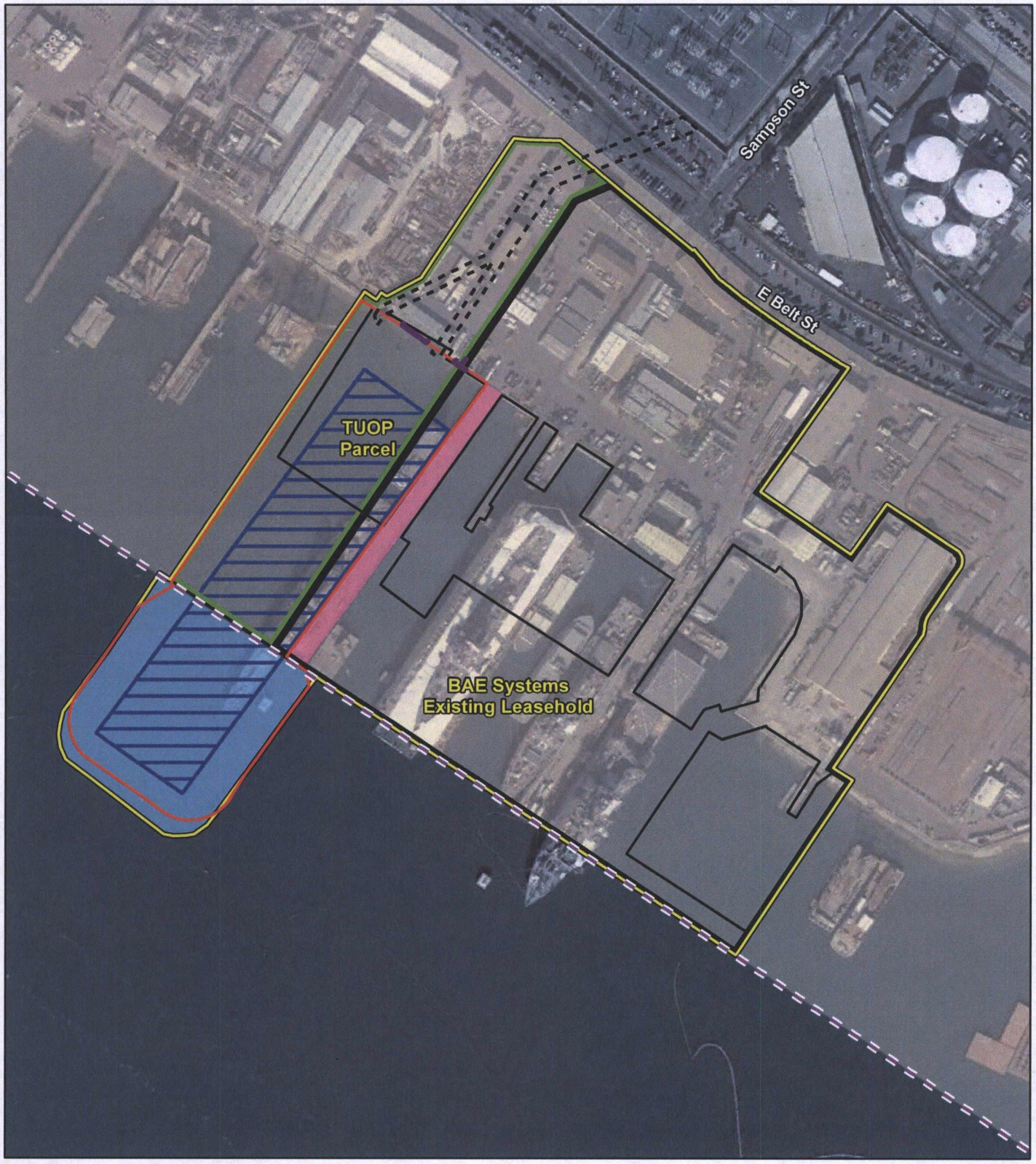

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FIGURE .2

LEGEND

- U.S. Pierhead Line
- Project Limits
- California State Lands Commission Jurisdiction
- Port Jurisdiction
- Existing Cooling Tunnels
- Remedial Footprint

Project Features

- Existing Pier 1
- Proposed Floating Dry Dock
- Submerged Cantilever Sheet Pile Bulkhead Wall – Part of Separate Project
- Dredge Area
- BAE Systems Existing Leasehold
- TUOP Parcel

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Pier 1 North Drydock Project

Project Overview and Applicable Jurisdictions

SOURCE: Google Earth (2013); BAE Systems (9/2014)

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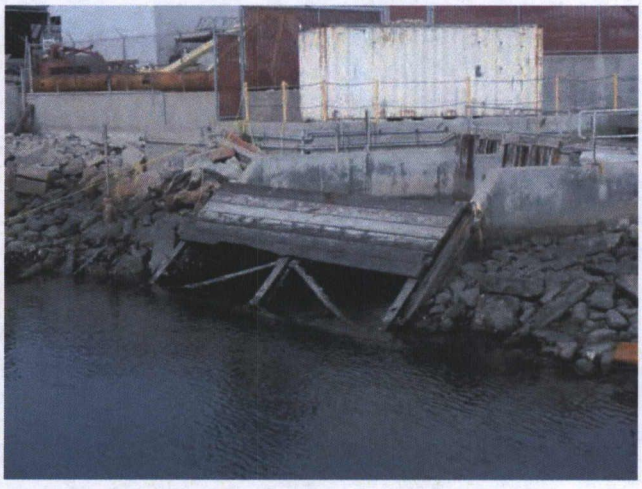
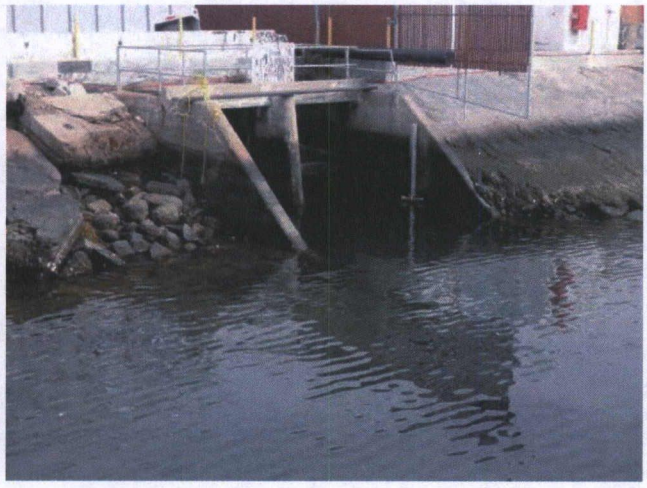
Existing Pier 1.



Existing cooling tunnels intake.



Discharge structures.

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FIGURE 3

Pier 1 North Drydock Project

Existing Facility Photographs

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discharge tunnels consist of two tunnels for intake water and two tunnels for outbound water. Each tunnel is approximately 700 feet (ft) long with an 8 ft square opening. As depicted in Figure 4, the portion of the tunnels within the District's jurisdiction stretch from the south curb of Belt Street to the San Diego Bay and consist of approximately 490 ft of intake tunnels and approximately 450 ft of discharge tunnels. Outside the District's jurisdiction, the tunnels traverse for an additional 250 ft north of the existing leasehold beginning at East Belt Street, crossing underneath Burlington Northern Santa Fe (BNSF) Railway property, and extending into the existing SDG&E substation north of the proposed project site. The Silvergate power plant was removed in 2007 and the intake/discharge tunnels are no longer in operation. Although removal of the cooling tunnels is anticipated to occur after installation of the drydock, in order to analyze conservative worst-case construction conditions, the simultaneous construction of the Pier 1 North Drydock (overlapping Phases 1 through 6) and the removal of the cooling tunnels (Phase 3) was analyzed in the traffic analysis for this EIR.

1.2.1.2 Waterside Conditions

Existing facilities within the waterside area include BAE Systems Piers 1, 3, and 4 and a floating drydock. The removal of Pier 2 is currently ongoing and is not associated with the proposed project. The removal of Pier 2 is covered by US Army Corps of Engineers (USACE) Permit No. SPL-2013-00146-RRS in conjunction with the Shipyard Sediment Remediation Project. These existing facilities are all located within jurisdiction of the District along the eastern shoreline of the San Diego Bay in an area that is developed with marine terminals and other piers. The three working piers are used to moor vessels during maintenance, repair, overhaul and conversion activities; are designed to accommodate berthing for large deep-draft US Navy and commercial vessels; and include a variety of crane and utility services to support these maintenance activities.

BAE Systems currently operates one floating drydock at the project site. This floating drydock ("Pride of San Diego" or "POSD") has been operating at the site since 1984. A second drydock (AFDL/Diligence) was in operation at the BAE Systems facility until 2010, at which time it was sold and relocated to the South Bay. The second drydock was subsequently resold in 2013, and was removed from San Diego Bay.

As depicted in Figure 2, approximately 10.5 acres within the existing BAE Systems leasehold and the TUOP parcel (waterside only) would be affected by the ongoing and future remediation activities associated with the Shipyard Sediment Remediation Project. The Shipyard Sediment Remediation Project consists of a cleanup plan for marine sediments in the bottom bay waters that contain elevated levels of pollutants above San Diego Bay background conditions. The Shipyard Sediment Remediation Project was approved by the San Diego Regional Water Quality Control Board (San Diego RWQCB) on March 14, 2012, in response to the Cleanup and Abatement Order (CAO) No. R9-2012-0024. The District issued a Coastal Development Permit (CDP) for the project on August 1, 2013. On July 10, 2013, the San Diego RWQCB adopted Waste Discharge Requirements (WDR) Order No. R9-2013-0093401 and Water Quality Certification (401 WQC), which allowed for implementation of the remediation activities required

by the CAO. The purpose of the CAO is to restore the beneficial uses of San Diego Bay within the Shipyard Sediment Remediation Project site.

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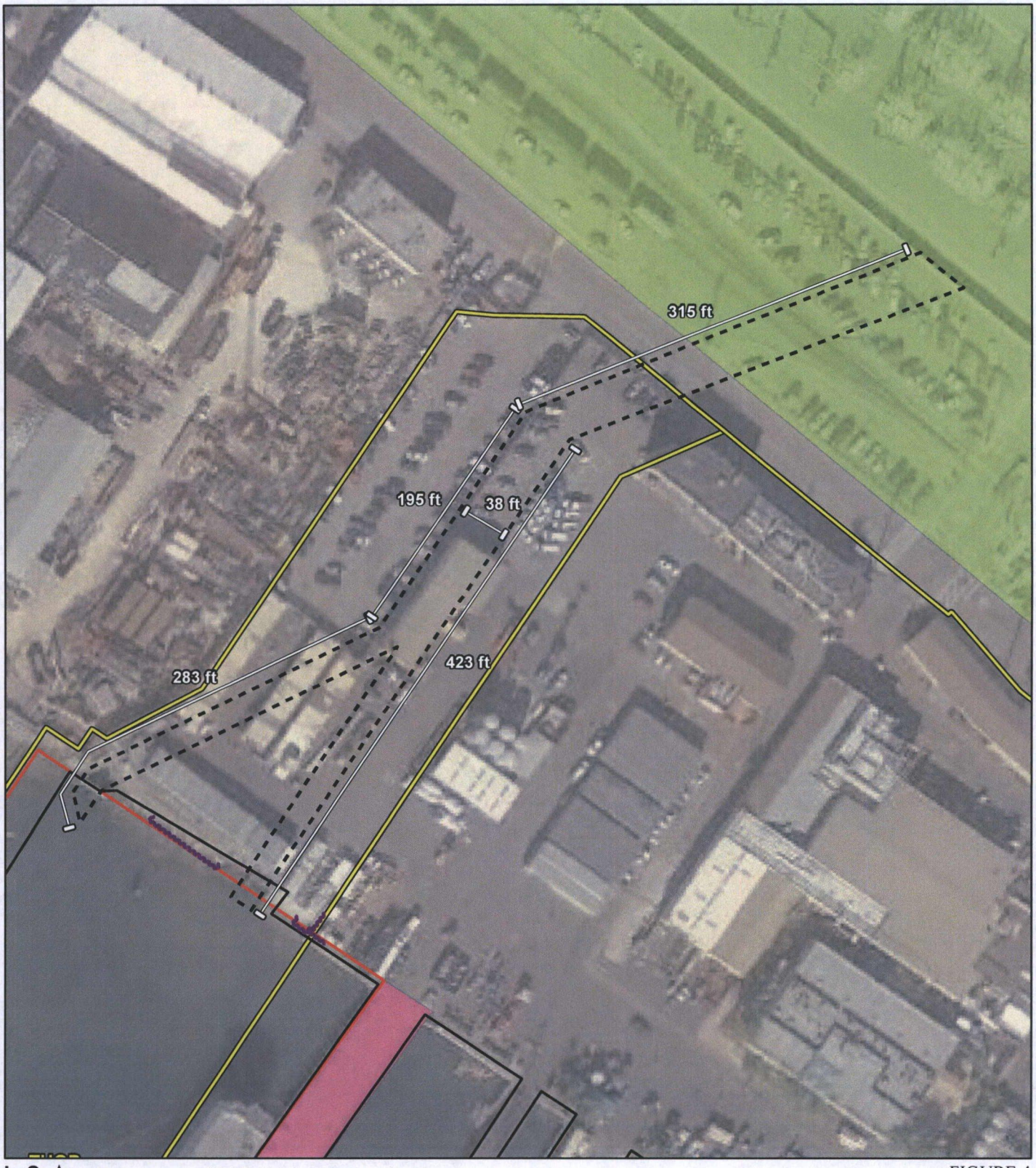

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LEGEND

- Project Limits
- Port Jurisdiction
- City of San Diego Jurisdiction
- Existing Cooling Tunnels
- Remedial Footprint

Project Features

- Existing Pier 1
- Submerged Cantilever Sheet Pile Bulkhead Wall – Part of Separate Project
- Dredge Area

FIGURE 4

Pier 1 North Drydock Project

Cooling Tunnels

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SOURCE: Google Earth (2013); BAE Systems (6/2014)

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On July 16, 2013, the District's Board of Port Commissioners (Board) considered the Final Program EIR (PEIR) and post Final PEIR certification documents (e.g., WDR and 401 WQC) prepared by the San Diego RWQCB, adopted the Findings of Fact (Findings) and Statement of Overriding Considerations (SOC), adopted the Mitigation Monitoring and Reporting Program (MMRP), and authorized District staff to file the Notice of Determination (NOD) for the Shipyard Sediment Remediation Project. At the same hearing, the Board also granted concept approval and authorized issuance of a non-appealable CDP (CDP-2013-06) to BAE Systems for the Shipyard Sediment Remediation Project. The CDP was issued on August 1, 2013. On September 24, 2013, the Board granted BAE Systems the First Amendment to CDP-2013-06, which modified Special Provisions 5 and 6 of the CDP but remained consistent with the Water Board's final adopted WDR and 401 WQC.

In a letter dated May 22, 2014, the San Diego Bay Environmental Restoration Fund – North has identified that remedial activity in the vicinity of the proposed project associated with the CAO will be completed prior to any dredging activity associated with the proposed project.[1]

1.2.1.3 Site Operations

BAE Systems provides services for both commercial and government customers and has serviced a myriad of commercial vessels including, but not limited to, cruise ships, tankers, barges, research vessels, reefer and container ships, and kelp cutters. The existing BAE Systems facility is used for non-nuclear ship repair, modernization, conversion, and overhaul in support of its primary customer, the US Navy.

BAE Systems is currently the prime contractor for five classes of US Navy vessels: CGs (Cruisers), DDGs (Destroyers), LPD-17 (Amphibious Transport Docks), LSD-41/49 (Dock Landing Ships), and MCMs (Mine Countermeasures). BAE Systems maintain Multi-Ship, Multi-Option (MSMO) contracts that include vessel berthing and drydocking.[2] These contracts may include pier-side repair, drydock repair, or both. The average number of ships moored and/or serviced at the BAE Systems facility ranges from 10 to 20 vessels per year. As shown on Table A, the vessel stay at the facility ranges from 11 days to 294 days, with an average stay of 89 days for drydock vessels[3] and 104 days for berthed vessels. To a lesser extent, BAE Systems performs pier-side and drydock repairs for commercial customers as well. Over the past five years, BAE Systems has accomplished an average of four drydockings per year.

The existing drydock is used to conduct repair and maintenance activity which cannot normally be conducted while the vessel is afloat. These activities generally include exterior hull repair, preservation (abrasive blasting and/or hydroblasting and painting), shaft repair, propeller and rudder repair, and repair/replacement of valves and fittings below the waterline. Ships are docked by lowering (submerging) and then raising the drydock by means of integral ballast

1 Letter from San Diego Bay Environmental Restoration Fund – North regarding Response to Comments on Permit Modification Letter (No. CDP-2013-06) San Diego Shipyard Sediment Site – North Shipyard, May 22, 2014.

2 In certain cases, a particular vessel may be worked on at US Naval Base San Diego or another local shipyard and not at the BAE Systems facility.

3 Not including short-duration small commercial vessels.

Table A: Average Vessels per Year at BAE Systems San Diego

Serviced Vessels (2010–2013)		
	Drydocked Vessels	Berthed Vessels
Average Ships Per Year	4	12
Minimum Number of Days	14	11
Maximum Number of Days	176	294
Average Number of Days	89	104

Source: BAE Systems (March 2014).

tanks, which take in and discharge seawater. Once the drydock is lowered a vessel is positioned within the dock. The drydock is then raised, raising the ship out of the water. Wastes generated during ship repair in drydock may include spent abrasive, paint, rust, petroleum products, marine growth and general refuse, all of which are contained and then transferred to shore facilities for disposal. Environmental protection related to drydock operations includes complete encapsulation of the vessel to prevent fugitive particulate emissions, stormwater collection, and zero discharge of industrial wastewater.

Water Quality Facilities

BAE Systems operates and maintains a Storm Water Diversion System (SWDS) to eliminate and/or reduce the volume of pollutants discharged to receiving waters (San Diego Bay). This system consists of 31 catch basins (drains) and associated piping, as well as secondary containment. The system is designed to capture at least the first 1.0 inch of storm water that has fallen upon the facility. Rain gauges are utilized to determine when 1.0 inch of rainfall has been achieved.

Following the first 1.0 inch of storm water recovery to the SWDS, remaining storm water may be redirected to San Diego Bay through nine outfalls enumerated SW1 through SW9. Visual observations and sample collection occur upon discharge to the receiving water. Collected storm water is held in 11 tank systems (DS1 through DS11) and is managed in accordance with the BAE Systems Industrial User Discharge (IUD) Permit issued by the City of San Diego. Once storm water is determined to meet IUD permit parameters, it is discharged to the sewer. Discharge to San Diego Bay may occur if on-site storage capacity is exceeded. San Diego Bay discharge requirements are delineated in Regional Board Order No. R9-2002-0161.

1.3 PORT MASTER PLAN DESIGNATIONS

The majority of the proposed project site is within the jurisdiction of the District and is located in Planning District 4 ("Tenth Avenue Marine Terminal"), Planning Subarea 43 (Belt Street Industrial) of the Port Master Plan (PMP). As illustrated in Figure 5, land uses at the proposed project site within Planning Subarea 43 include *Marine Related – Industrial* over the land portion of the proposed project site and *Specialized Berthing* over the water portion of the proposed

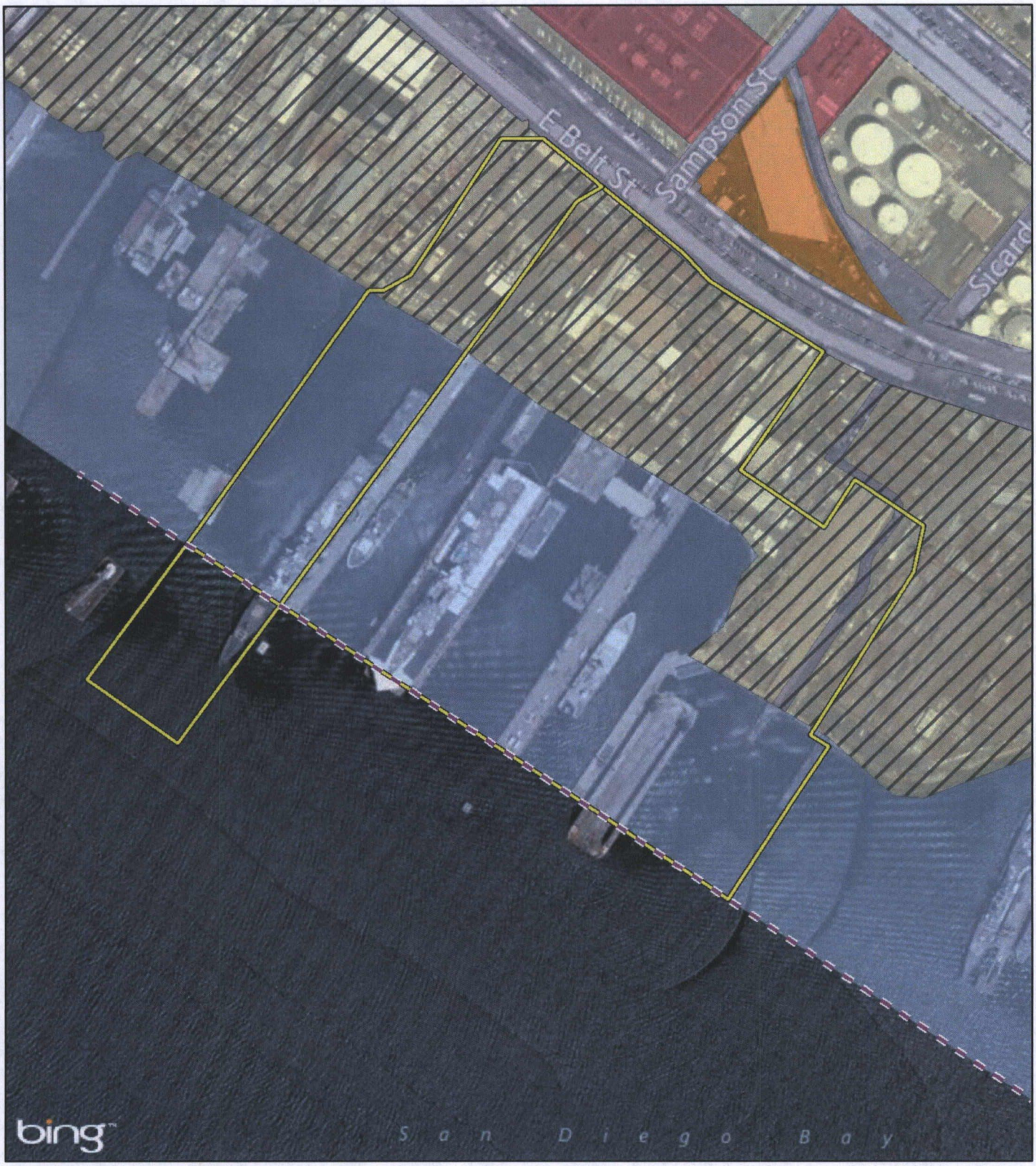

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FIGURE 5

LEGEND

Project Location

U.S. Pierhead Line

Port Master Plan

Marine Related - Industrial

Specialized Berthing - Industrial

City of San Diego General Plan

Industrial

Transportation

Utilities

Warehousing/Storage

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SOURCE: Bing Maps (2012), City of San Diego (2010), Port of San Diego (2010)

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Pier 1 North Drydock Project

Existing Land Use Designations

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project site. Within the Marine Related-Industrial designation, the PMP calls for the modernization of existing marine-oriented facilities in order to reduce the need for future dredging or filling activities; however, the PMP does allow for dredging and filling in new areas under certain circumstances where alternative locations are infeasible or where curtailment of the project would result in adverse impacts to the public. Within the Marine Related-Specialized Berthing designation, the PMP allows for commercial and industrial uses, including ship building and repairing activities, water intake and discharge, and activities associated with the operation of drydocks. Because the proposed project includes the demolition of an existing pier-side berth and the construction of a new drydock, the proposed project would be consistent with the existing PMP and would not require a Port Master Plan Amendment.

Land to the east of the proposed project site is within the City of San Diego (City) and is currently designated in the City's General Plan as Industrial Employment and is zoned as Barrio Logan Planned District: SubDistrict D (BLPD-SUBD-D). Approximately 159,450 sf of water area west of the US Pierhead Line (outside District Jurisdiction) is held by the CSLC and is under the California Coastal Act jurisdiction of the CCC. Table B provides a summary of on-site and adjacent land use designations identified in the PMP.

Table B: On-Site and Adjacent Land Use Designations

Location	Current Land Uses	Port Master Plan Land Uses
On-site	Ship Repair	Marine Related – Industrial/Specialized Berthing – Industrial
North	Industrial/Marine Industrial	Marine Related – Industrial
South	Open Water	Marine Related – Industrial/Specialized Berthing – Industrial
East	Ship Repair	Marine Related – Industrial
West	Ship Repair	Marine Related – Specialized Berthing[1]

Source: San Diego Unified Port District, Port Master Plan (October 2012).
Note: Areas beyond (west) the US Pierhead Line are within the jurisdiction of the California State Lands Commission, a department of the Resources Agency of California. Based on information provided in the Resources Agency of California's *California's Ocean Resources: An Agenda for the Future* (March 1997), the areas within California State Lands Commission jurisdiction are designated at "State Tidelands and Submerged Lands." State Tidelands and Submerged Lands are defined as the area from the shoreline to three (3) nautical miles offshore.

3.2 Project Purpose and Objectives

The future needs for drydocking of US Naval vessels positioned in San Diego exceeds current drydock capacity. The purpose of the proposed project is to (1) increase BAE Systems' drydock capacity to facilitate required maintenance of existing and future US Naval assets and (2) provide additional capacity for commercial vessel drydock needs that cannot currently be met by existing drydock capacity.

The proposed project objectives include the following:

- Construct and operate shipyard repair facilities that maximize the use of existing waterways, available shoreline, and existing land;
- Retain and expand current ship repair business operations by BAE Systems, in order to provide economic and employment benefits to the District and the San Diego region;
- Modernize the BAE Systems shipyard by providing a new drydock facility, including associated improvements, and ship repair services, to meet the needs of the current and anticipated ship fleet of military and commercial customers;
- Invest in new shipyard infrastructure that will enhance the short- and long-term attractiveness and viability of San Diego Bay and the region to military and commercial ship operators for construction and repair;
- Impose current terms of the SDG&E TUOP that require removal of the cooling tunnels;
- Ensure the long-term health, safety, and sustainability of the project site and surrounding tidelands area by removing the SDG&E cooling tunnels in a manner that minimizes environmental impacts, including the potential to release hazardous materials into the environment; and,
- Obtain real estate agreement(s) necessary to achieve the aforementioned project objectives.

1.4 Project Characteristics

The proposed project consists of two major phases – Phase 1 and Phase 2. Phase 1 includes the installation of the floating drydock component and the proposed BAE Systems real estate agreement component. Extensive preliminary design studies and schematic plans have been developed for the floating drydock component and details associated with the proposed real estate agreement component are known.

Phase 2 includes the cooling tunnels component of the proposed project. Although the proposed project would result in the ultimate removal of the cooling tunnels, at this time, the funding, phasing, timing, and design details of the cooling tunnels removal are only known at a conceptual level of detail. However, this analysis is based on all known data and facts, as well as reasonable investigations regarding the tunnels and project site.

1.4.1 Proposed Improvements

The proposed project would provide for the current and anticipated drydocking needs of BAE Systems, extension of its existing lease term based on its investments in the leasehold, a future real estate agreement on the neighboring TUOP parcel (2-acre landside and 4-acre waterside), and the eventual removal of the underwater intake/discharge tunnels and surface improvements on the TUOP parcel. These project components are summarized below.

1.4.1.1 Floating Drydock and Associated Activities/Improvements

The proposed drydock would be located on the north side of existing BAE Systems Pier 1 and would extend onto the neighboring TUOP parcel and approximately 350 ft west into CSLC jurisdiction. The drydock component of the proposed project includes dredging activities (the extent of dredging is illustrated in Figure 6), the installation of the drydock, a sheet pile protection wall along the existing Pier 1 north, over-water structure(s) (apron ramp wharves [south] and the future north ramp wharf and intermediary wharf structure), two new mooring dolphins (one stand-alone and one integrated into the existing Pier 1 structure) and expansion of one existing mooring dolphin, and installation of utilities as detailed in Figure 7. Figure 8 depicts before and after proposed project conditions for the proposed Pier 1 drydock component. A more detailed description of the proposed drydock and associated improvements is provided as follows.

- **Underwater Improvements.** To prevent undermining of the existing Pier 1, the proposed project will include an underwater wall and cantilevered king pile installation. These underwater improvements will allow for dredging adjacent to the pier without adversely impacting the strength and integrity of the pier, which will continue to moor large US Navy vessels on the south side of that pier. The overall length of these underwater improvements is approximately 700 ft from the US Bulkhead Line[1] to the US Pierhead Line.[2]
- **Dredging.** Dredging is planned to provide sufficient water depth to submerge the floating drydock. The drydock will require a Bay bottom elevation of -65 ft Mean Lower Low Water (MLLW). Additionally, to provide a route to enter the drydock, some minor dredging may be required between the end of the dock and the Bay channel as illustrated in Figure 6. The majority of the dredging is located east the US Pierhead Line within District tidelands. Dredging west of the US Pierhead Line is within the jurisdiction of the CSLC and the CCC.

  Based on preliminary bathymetric survey data, dredging is anticipated to generate approximately 395,000 cubic yards (cy) of sediment. Following testing and approval by the USACE and the US Environmental Protection Agency (EPA), the sediment would be disposed of by barge at the EPA approved ocean disposal site commonly known as LA-5, which is located approximately 13 miles west from the proposed project site.

  Any sediment not approved for ocean disposal or beneficial reuse will be disposed of outside of tidelands (upland) at an appropriately permitted landfill. Any sediment designated for upland disposal will be tested, characterized, and profiled for disposal approval. For purposes of this analysis, it is anticipated that between 2,500 and 10,000 cy (3,500–14,000 tons) of dredge material would require treatment and upland disposal. This figure is based upon preliminary testing which determined that approximately 2,500 cy of dredge material will not be suitable for ocean disposal or beneficial use.[3] The 10,000 cy figure is a

[1] The US Bulkhead Line refers to a line marking the limit to which piers or wharves may project along a waterfront.
[2] The US Pierhead Line refers to a line delineating the limit of jurisdiction of the San Diego Unified Port District.
[3] Amec. *Draft Pier 1 North Drydock Project Hazards and Hazardous Materials Technical Report, BAE Systems San Diego Ship Repair, San Diego, California*. January 2015 (Appendix D of this EIR).

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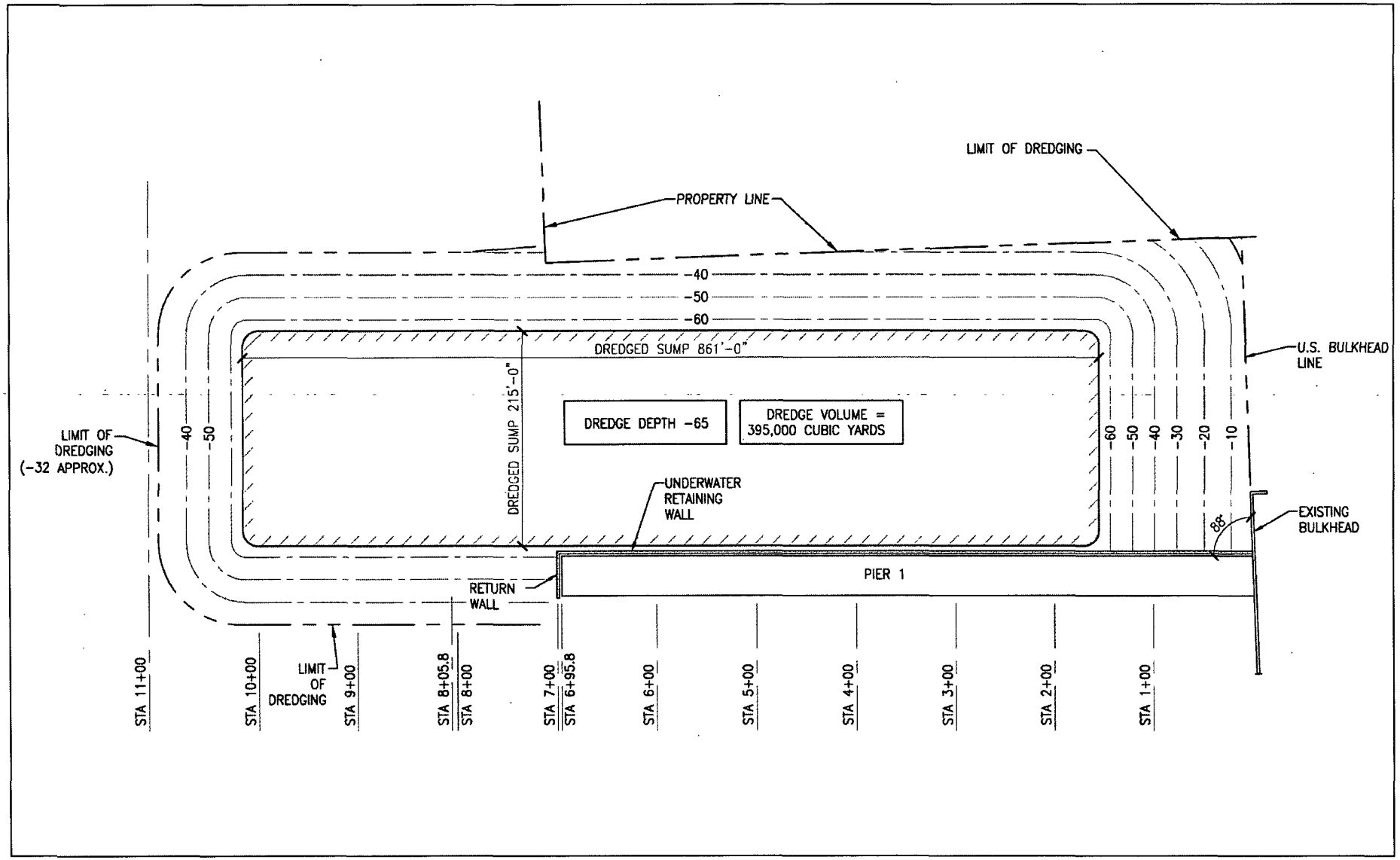

LSA

FIGURE 6

LEGEND:

-40- APPROXIMATE NEW CONTOUR

N

0 70 140

FEET

SOURCE: BAE Systems

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Pier 1 North Drydock Project

Conceptual Design – Proposed Dredging Depths

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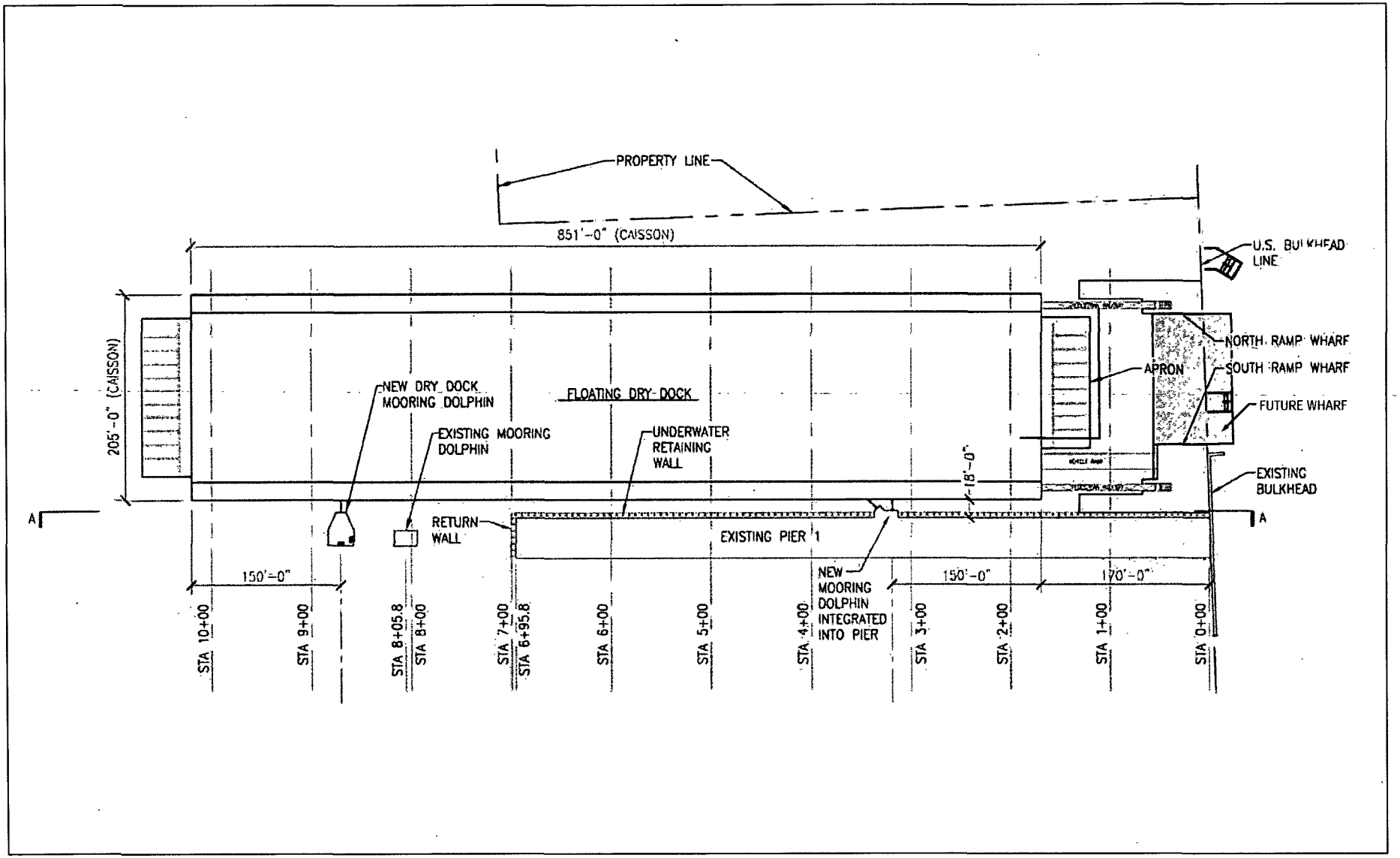

FIGURE 7

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N

0 70 140
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SOURCE: BAE Systems

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Pier 1 North Drydock Project

Conceptual Design – Proposed Site Plan

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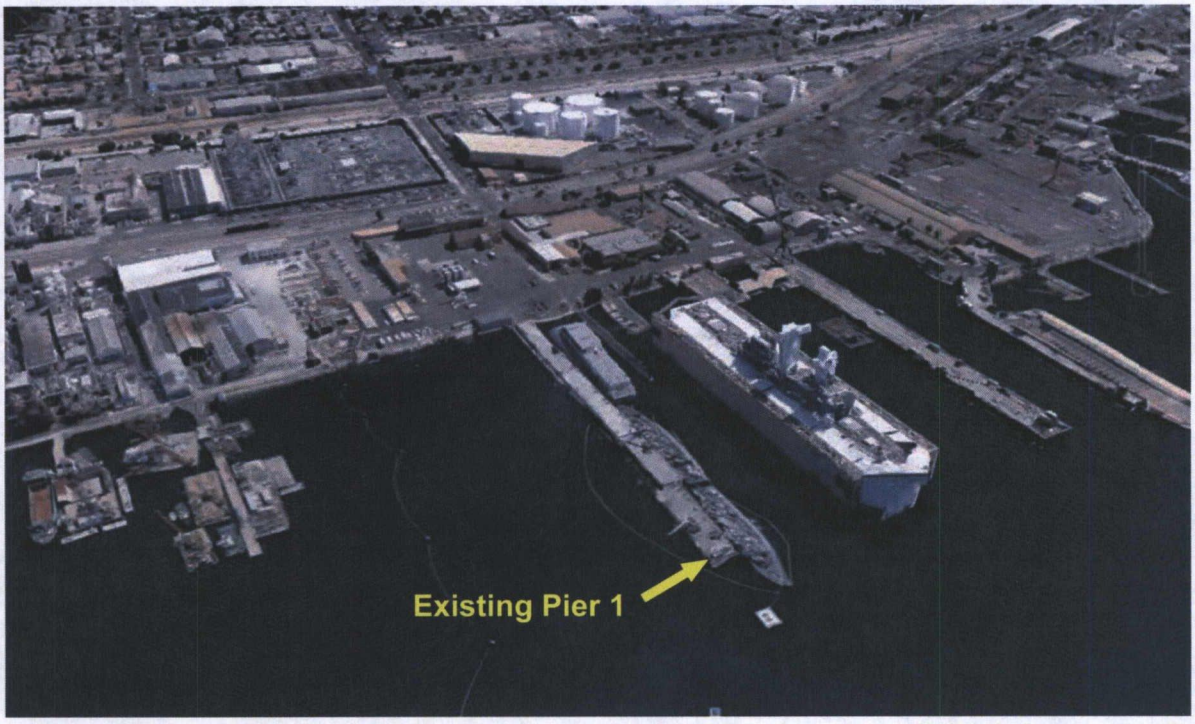
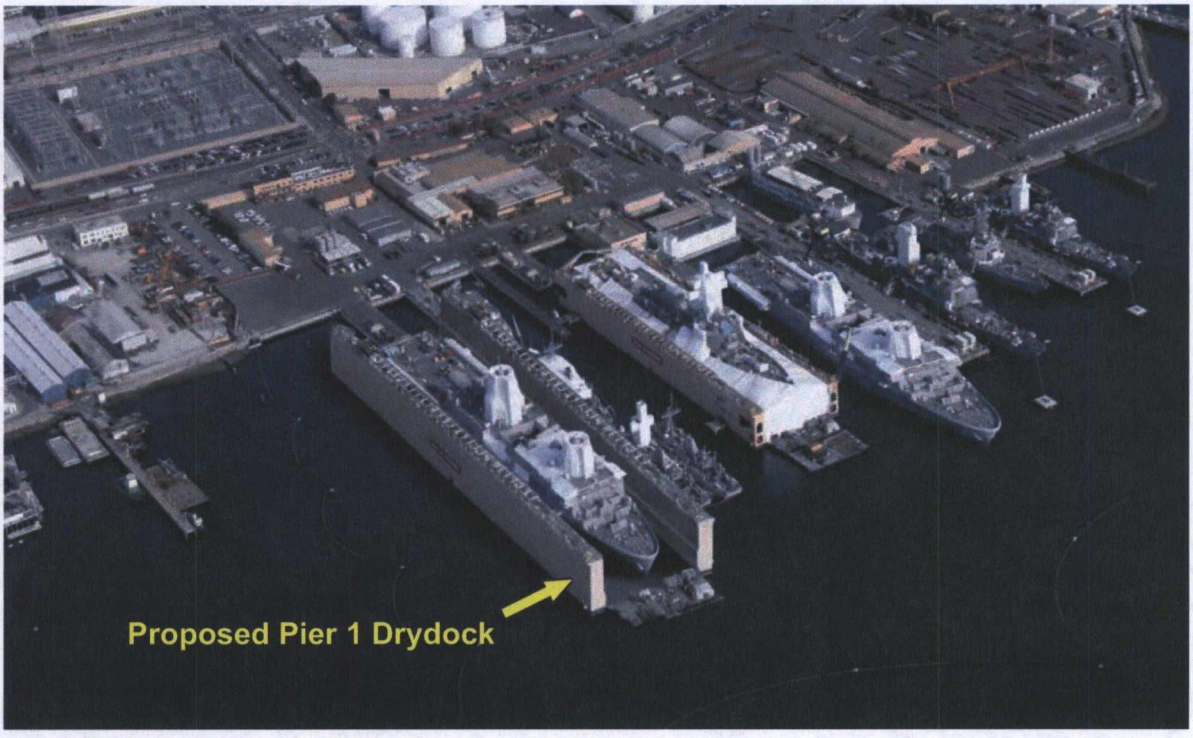


Existing



Post Project

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FIGURE 8

Pier 1 North Drydock Project

Drydock Component Existing and Proposed

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worst-case condition that is four times the expected dredge quantity based on preliminary testing. The actual cubic yardage of dredge material required for upland disposal will be determined prior to project dredging activities, but following completion of remediation dredging in the area. Should upland disposal for any sediment become necessary, the proposed disposal site is Otay Landfill, located at 1700 Maxwell Road in Chula Vista. Alternative landfills may also be considered. In the event that sediment testing determines that any portion of the dredge spoils are hazardous, those materials would require transport to a hazardous waste facility (a Class I facility). The nearest Class I disposal facility to the project site is the Buttonwillow Landfill located in Buttonwillow, California, approximately 250 miles north.

In addition to the dredged sediment that is proposed for ocean and upland disposal, some portion of the dredged sediment may be utilized for beneficial reuse in San Diego Bay or a near-shore ocean environment. Specifically, as described further in Chapter 6.0, Alternatives, there are two potential beneficial reuse sites: the Northern and the Southern Alternative Mitigation Sites. The Northern Alternative Mitigation Site is located south of the Sweetwater River Flood Control Channel within the San Diego Bay National Wildlife Refuge, and the Southern Alternative Mitigation Site is located further south and adjacent to a channel within the District.

- **Ramp Wharf.** A ramp wharf designed for accessing the drydock is proposed adjacent to and westward of the bulkhead and would extend from approximately the current bulkhead line to 125 ft into the Bay. The ramp wharf will be constructed of three independent structures with the northernmost structure measuring approximately 125 by 35 ft, the intermediary structure measuring approximately 134 by 76 ft, and the southernmost structure measuring approximately 125 by 70 ft, with a combined total area of approximately 22,088 sf (including pedestrian and vehicle ramps). However, because the removal of the cooling tunnels is anticipated to occur after construction of the drydock, and due to the location of the tunnel openings relative to the proposed ramp structures, the future northern ramp wharf and intermediary structure will not be constructed until the cooling tunnels are removed. Construction of the future northern ramp wharf and intermediate structure after the cooling tunnel removal will ensure that improvements associated with the drydock do not need to be disturbed and/or removed to access the tunnels. The drydock can operate in the interim with only the southernmost ramp wharf installed. The ramp wharf structures will be designed to support heavy vehicle and equipment loads and constructed of a reinforced concrete deck supported by precast concrete piles will be anchored along the shoreline. The elevation of the wharf will be approximately +13 ft MLLW. This elevation is 12 inches higher than existing piers at the BAE Systems site and has been designed to account for some rise in sea level.

  The ramp wharf decks will be a composite structure consisting of precast planks topped with cast-in-place reinforced concrete and reinforcing bar. The deck support system will require pile driving and will consist of both vertical and batter piles. The batter piles will provide lateral resistance to seismic loads. Along the perimeter of the ramp wharf a concrete curb will be constructed that will control storm water runoff and divert it to existing onshore stormwater collection facilities. Electrical conduits will be located within the pier deck and will

be cast in place when the pier deck is poured. Other utility piping, such as mechanical and electrical will also be installed from the shore to the drydock. Additional information associated with the ramp wharf decks is provided under the construction subsection.

- **Mooring Dolphins.**[1] To accommodate the mooring of the proposed drydock, two mooring dolphins (one new and one retrofit) are proposed to be constructed approximately 344 ft and 890 ft offshore (west) of the US Bulkhead Line. Dimensions of each dolphin would be 26 ft by 33 ft in size and include a 4-ft thick concrete deck. Each dolphin will be supported by 24 concrete 24-inch octagonal piles and outfitted with two 100-ton double bitts. The square footage of the proposed new western drydock dolphin is 714 sf. The easternmost mooring dolphin is proposed to be retrofitted into the existing Pier 1 structure, adding approximately 194 sf of area. The new dolphins are necessary to provide a fixed mooring structure to secure the drydock. One of these dolphins is in the CSLC jurisdiction, and an amendment to the existing BAE Systems CSLC Lease may be needed. The existing western Pier 1 mooring dolphin will be expanded from an existing area of 345 sf to 483 sf (for a total increase of 138 sf). This expansion entails the installation of three additional 24-inch octagonal piles on the south side of the mooring dolphin. Pile driving will occur as part of the mooring dolphin construction.
- **Floating Drydock.** Installation of a new floating drydock approximately 205 ft in width and 851 ft in length (174,455 sf in total) plus aprons (approximately 16,165 sf in total) attached to the drydock on each end. It is anticipated that the majority of the drydock would be assembled off site. However, there will be some additional drydock assembly work occurring once the drydock is towed in to the shipyard. In a typical year, it is anticipated that two DDG-class vessels, one LPD-class vessel, one CG-class vessel and one LCS-class vessel may utilize the drydock.
- **Utilities.** Electrical and mechanical utilities to support the drydock are similar to the types and capacities currently utilized within the existing shipyard. The proposed electrical utilities include:
    - A 12,000-volt, 500-amp feeder cable to the proposed new wharf;
    - New load interrupt switches for the distribution of the 12,000-volt circuit;
    - Shore and pier 480-volt and 208/110-volt distribution systems including 400-amp shore power mounds on the shore at two locations for barges and for ship repair operations;
    - Convenience receptacles on shore and on the pier and power to new infrastructure where needed (storm water collection systems, etc.)
    - Shore and pier lighting, including pole lights and imbedded light fixtures in the wharf structure, that will be located on the shore and wharf; and,
    - Shore and wharf data, telephone and television systems for use by vessels in drydock.

[1] A mooring dolphin is a manmade marine structure that extends above the water level and provides a fixed structure at which to moor ships when the ship length exceeds the length of the berth or pier.

The proposed mechanical utilities for the proposed project are detailed in Table C and are further described below:

Utility and mechanical services necessitating piping would be installed underground or in trenches that extend from their existing systems at various locations on shore. These piping systems will be routed to penetrate the shoreline and run to the wharf where they will be mounted on the side and underside of the wharf. Some electrical conduits will also run under and through the wharf.

Expansion joints will be installed where appropriate. For each service, single or manifold type service risers may be installed for servicing messing/berthing barges moored alongside the drydock. All risers will be rugged, corrosion-resistant and outfitted with steel guards. Each point of connection will be a valve suitable for the service and location. Branches for electric service, salt water, potable water and sewage will be installed for provision to barge berths.

Table C: Mechanical Utilities

System	Location	Size (inches)	Material
Saltwater[1]	Drydock	10	Galvanized Steel
Potable Water	Existing Infrastructure	4	Steel, FBE
Compressed Air	Existing Infrastructure	8	Steel, FBE
Sewage[2]	Sewage discharge piping from the drydock to the existing City of San Diego sewer service	4	Fiberglass
Stormwater	New stormwater diversion tanks, piping, and drain inlets	3 and 4	PVC
Natural Gas	Existing Infrastructure	3	Steel, FBE
Carbon Dioxide	Weld shielding gas tanks (CO_2 and Argon) will be located on the wharf	3/4	Rental tanks and coated aluminum hose
Argon	Weld shielding gas tanks (CO_2 and Argon) will be located on the wharf	3/4	Rental tanks and coated aluminum hose
Telecommunications/Cable	--	--	--
Fire Hydrant Supply	--	6-inch	--

Source: BAE Systems (2014).
[1] Saltwater system allows for repair work to be done to saltwater system piping on ships while docked at the facility. The system saves electricity and eliminates water discharged into the San Diego Bay.
[2] Sewage system is to accommodate pumping sewage holds from the vessels docked at the drydock.
CO_2 = carbon dioxide
FBE = fusion-bonded epoxy
HDPE = high density polyethylene
PVC = polyvinyl chloride

Stormwater that falls on the wharf and adjacent shore will be captured in tanks and disposed of in a controlled manner. Wharves and finished grades will be designed to lead stormwater into drainage piping that leads into sumps that will pump the water into stormwater collection tanks and managed in accordance with the BAE Systems Industrial User Discharge Permit.

Two weld shielding gas systems (carbon dioxide and argon) will be installed to service the ship repair work in drydock. Both systems will emanate from tanks onshore or on the wharf.

- **Bay Coverage and Shading.** The proposed drydock ramp wharves (including the intermediary wharf structure) will be constructed of concrete, supported by concrete pier piles and anchored along the shoreline. These structures would extend from approximately the current bulkhead line 125 ft into the Bay. The surface area of the proposed drydock ramp wharves, intermediary structure, and vehicle ramp and pedestrian walkways is 22,088 sf. The square footage of the proposed western drydock mooring dolphin is 714 sf, the proposed retrofitted mooring dolphin is 194 sf, and the proposed expanded mooring dolphin is 138 sf. Together with the proposed drydock, the proposed project would shade approximately 213,754 sf of San Diego Bay in the location where vessels currently berth.

1.4.1.2 BAE Systems Real Estate Agreements

BAE Systems currently leases approximately 9.8 acres of land and 16.6 acres of water from the District. This lease is scheduled to expire on August 31, 2034. Based on its investments proposed as part of the proposed project, BAE Systems proposes to extend the lease term of its existing leasehold with the District. This action will require an amendment to the existing lease term by 24 years, extending the year of expiration to 2058. Additionally, BAE Systems proposes to lease, on a long-term basis, the approximately 2-acre (landside) and 4-acre (waterside) parcel currently leased (5-year term) by the District to BAE Systems through a TUOP set to expire on October 31, 2019. This action will require terminating the TUOP and adding an amendment to the existing lease term by 43 years, extending the year of expiration to 2058. The lease amendment for the TUOP parcels would roll the approximately 2-acre (landside) and 4-acre (waterside) parcel into the BAE Systems' leasehold area. As a result, BAE Systems will ultimately be leasing approximately 11.8 acres of land area and approximately 20.6 acres of water area from the District. This component would result in the continuation of existing uses, as permitted, on the existing leasehold and neighboring TUOP parcels.

1.4.1.3 Removal of Cooling Tunnels

Two sets of intake/discharge cooling tunnels that were previously installed by SDG&E and used by the former SDG&E Silvergate Power Plant currently exist beneath the TUOP parcel. As previously stated, the underground tunnels traverse underneath properties owned by Kelco, Burlington-Northern Santa Fe railroad and the District and underneath the Belt Street right-of-way. The portion of the cooling tunnels within the District's jurisdiction stretch from the south curb of Belt Street to the San Diego Bay and consists of approximately 490 ft of intake tunnels and approximately 450 ft of discharge tunnels. Outside the District's boundaries, the tunnels traverse for an additional 250 ft underneath the Belt Street right-of-way and the Burlington-Northern Santa Fe railroad properties. The proposed project includes the removal of the cooling tunnels within the BAE Systems leasehold. The timing for the removal of the tunnels is unknown; however, removal of the tunnels will occur after the installation of the drydock and southern ramp wharf. As noted above, construction of the future northern ramp wharf and intermediate structure would occur after the cooling tunnel removal to ensure that access to the

tunnels to remove them is adequately provided. Please refer to Figure 4 for the location of the existing cooling tunnels.

The removal of the cooling tunnels would require excavation of soil, dewatering, installation of shoring to protect the excavation, installation of a coffer dam, demolition and removal of tunnels (concrete) and backfill with clean structural fill. Soil and groundwater characterization would be performed and potential remediation may also be conducted. Disposal of the soils, if required, would be at the appropriate landfill facilities depending on the sediment characterization. Numerous structures, equipment and operating systems are located over the tunnels. Temporary relocation of these structures and uses are anticipated.

1.4.2 Construction Activities and Schedule

1.4.2.1 Floating Drydock and Associated Activities/Improvements

Upon completion of the design and permitting phase, the drydock component of the proposed project consists of six phases of construction: (1) Pier 1 North submerged wall, (2) Retrofitting of existing Pier 1 mooring dolphin, (3) upland dredging, (4) ocean dredging (5) wharf and mooring dolphin construction, and (6) shoreline and utilities construction. Construction for the drydock component of the proposed project is scheduled to begin in 2016 and projected to be completed in 2017. Project construction-related truck traffic to and from the site during construction would occur along Harbor Drive south to I-15 or Civic Center Drive for in and outbound routes. Construction deliveries will be directed not to traverse the local Barrio Logan neighborhood and will be specified in the project's construction documents and in the proposed District-issued CDP.

Construction equipment anticipated for Phase 1 include a floating crane barge, 80-ton land based crawler crane, two deck barges for delivery and storage of materials, one tug boat, trucks for delivery of sheetpile and construction materials, forklifts for on-pier support, a drilling rig, impact hammer, and vibratory hammer. Construction equipment for the installation of the mooring dolphins and ramp wharves include a crane to drive concrete piles, concrete trucks for pouring concrete structures, trucks to deliver construction materials (rebar, tools, equipment), and an impact hammer.

Table D identifies construction details, including the duration of each phase and crew size and Table E provides the anticipated construction schedule. A description of each phase of work for the drydock component follows.

Table D: Construction Phases

Phase	Duration[1] (20 Working Days Per Month)	Crew Size Per Day	Number of Total Trucks Per Phase
Phase 1: Pier 1 North Submerged Wall	8 months	20 people	38
Phase 2: Retrofit of Existing Pier 1 Mooring Dolphin	1 month	6 people	17
Phase 3: Dredging (Upland Disposal)	1 month	10 people	610
Phase 4: Dredging (Ocean Disposal)	6 months	8 people	N/A
Phase 5: Wharf and Mooring Dolphin Construction	6 months	20 people	72
Phase 6: Shoreline and Utilities Construction	3 months	15 people	24

Source: BAE Systems (August 2014).
[1] Durations are "time of task" rather than start-to-finish dates.
N/A = not applicable

Table E: Construction Schedule

Phase	Approximate Schedule
Pier 1 North Submerged Wall Construction	January 2016 – August 2016
Dredging	September 2016 – March 2017
Wharf and Mooring Dolphin Construction	October 2016 – March 2017
Shoreline and Utilities Construction	January 2017 – March 2017
Drydock arrives to project site	March 2017
Drydock Testing and Outfitting	March 2017 – May 2017
Drydock Operational	June 2017

Source: BAE Systems (August 2014).

Phase 1: Pier 1 North Submerged Wall

The first element of construction consists of the installation of an underwater wall adjacent to Pier 1 to enable the sump to be dredged to a depth of –65 ft MLLW. The existing fender pile and whaler system on the north side of Pier 1 will be demolished in way of the new under water retaining wall. Approximately 21 tons or 600 linear feet of double 12-inch treated timber fender material will be removed and disposed.[1] It is anticipated that this material may be reused on site for repair/maintenance of existing/replacement fender systems. However, if the timber requires disposal, an additional 3 to 4 truckloads would be taken to the Otay landfill for disposal.

The existing timber fender system also consists of approximately 75, 14-inch steel H-piles driven approximately 15 ft into the Bay bottom. These H-piles, once removed, may also be

[1] BAE Systems, August 2014. A total of 35 pounds per linear feet of timber = 21 tons of timber to be removed and disposed.

reused on-site for repair/maintenance of existing/replacement fender systems. If the H-piles are unusable, they will be transported to a local scrap company and recycled as scrap metal. This would require an additional 8 to 10 trucks trips to the local scrap company for disposal.

Overall, this phase is anticipated to require a 20-person workforce and 38 trucks over approximately 8 months. However, a worst-case assumption of 38 truck trips over the entire phase has been included in the traffic analysis as this would still equate to less than 1 truck trip per day, on average, during the 8-month phase.

Phase 2: Retrofit of Existing Pier 1 Sections and Mooring Dolphin

The demolition of two sections of the existing Pier 1 deck would occur in order to provide clearance for the retrofitted eastern mooring dolphin concrete piles. The demolition/concrete disposal volumes for the existing two sections of the existing Pier 1 are identified in Tables F and G, below.

Table F: Pier 1 Mooring Dolphin Concrete for Disposal

Component	Length (feet)	Quantity	Pounds/Foot	Weight (tons)	Volume (cy)	Number of Trucks
20-inch Square Pile	70	8	418	117.2	57.8	5.1
Dolphin Cap	15 x 23	345	150	25.9	12.8	1.1
			Total	143	71	7

Source: BAE Systems (August 2014).
cy = cubic yards

Table G: Pier 1 Sections Concrete for Disposal

Component	Width (feet)	Length (feet)	Volume (cubic feet)[1]	Weight (tons)	Volume (cy)	Number of Trucks
Pier 1 Sections	30	40	3,000	225	111.1	9.8
			Total	225	111.1	10

Source: BAE Systems (August 2014).
[1] Concrete weight by cubic foot = 150 pounds.

Based on the tables above, the demolition activities associated with the removal of the existing two sections of the existing Pier 1 would result in a total of 368 tons of material that would require approximately 17 haul trucks for disposal.

Overall, this phase is anticipated to require a 6-person workforce and 17 trucks over approximately 1 month.

Phase 3: Dredging (Upland Disposal)

Upland disposal of the soils during dredging, if required, would be at the appropriate landfill facilities depending on the sediment characterization. As previously stated, for purposes of this analysis, it is assumed that no more than 10,000 cy (14,000 tons) of dredge material will require dredging, transport and disposal upland to the Otay Landfill in Chula Vista[1]. Assuming a carrying capacity of 23 tons per truckload, approximately 610 truckloads would be required for upland disposal of these dredged materials. The preferred truck route to Otay Landfill is Interstate 5 south, to State Route 54 east, to Interstate 805 south.

It is estimated that upland dredging would take approximately one month to complete. Dredging equipment would include the dredge crane barge, two dredge barges (scows), a large excavator for mixing cement into the dredge material within the dredge scow and for offloading dredge material into trucks, and other miscellaneous equipment. During disposal days (anticipated to be 17 days during the month), approximately 30 to 40 trucks would be required to haul off the treated dredged sediments. In addition, approximately 35 cement trucks will be required to dry all of the upland dredge material. The cement trucks would arrive on approximately 5 to 6 separate days during this period. Approximately 10 workers will be on site each day that this dredging is being conducted.

Overall, this phase is anticipated to require a 10-person workforce and 610 trucks over approximately 1 month.

Phase 4: Dredging (Ocean Disposal)

It is anticipated that the vast majority of dredged sediment will be found suitable for unconfined aquatic disposal (SUAD). As such, none of the SUAD dredge material would be transported upland in trucks. This dredge material is expected to be approved for disposal at the EPA LA-5 Ocean Disposal Site located approximately 7 miles off shore. The same or similar dredge crane barge used for upland disposal would be utilized for ocean disposal. In addition, a digging bucket (clam shell) would be required, as the majority of the material is native and therefore, more difficult to dredge.

Tug boats will be used to transport this dredged material (barge scows) to the ocean disposal site. A single tug boat and escort vessel will be required for each trip. Approximately 132 vessel round trips will be required to move 395,000 cy (assumes a carrying capacity of 3,000 cy per scow). It is estimated that this dredging will take 6 months to complete. Approximately eight workers will be required each day to support this dredging.

Overall, this phase is anticipated to require an 8-person workforce with no trucks over approximately 6 months.

[1] AMEC. *Pier 1 North Drydock Project Hazards and Hazardous Materials Technical Report, BAE Systems San Diego Ship Repair, San Diego, California*, January 2015 (Appendix D of this EIR).

Phase 5: Wharf and Mooring Dolphin Construction

Ramp Wharves. Ramp wharves designed for accessing the drydock is proposed adjacent to and westward of the bulkhead. The ramp wharves will be made up of three independent structures with the northern most structure measuring approximately 125 by 35 ft, the intermediary structure measuring approximately 130 by 49 ft, and the southernmost structure measuring approximately 125 by 70 ft with a combined total area of approximately 22,088 sf (including pedestrian and vehicle ramps). The construction of the future northern ramp wharf and intermediary wharf structure will occur after the removal of the cooling tunnels. A total of eighty-four 24-inch concrete octagonal vertical and batter piles are anticipated to be required to support the two new ramp wharves (36) and intermediary structure (48).

Mooring Dolphins. New concrete structures will be installed for the purposes of mooring the new drydock. The concrete structures consist of a concrete deck supported by an array of vertical and battered piles. The western mooring dolphin will consist of a new free-standing structure situated approximately 150 ft west of the US Pierhead Line. This mooring dolphin is expected to consist of twenty-six 24-inch octagonal concrete piles driven 35 to 45 ft beyond the dredged elevation. The piles will support a concrete deck of approximately 6 to 8 ft of thickness. The eastern mooring dolphin will be constructed such that it is retrofitted (i.e., integrated) into the deck of the current Pier 1. This will involve the demolition of two sections of the deck to provide clearance for the installation of approximately twenty 24-inch octagonal concrete piles. The existing western mooring dolphin will include an expansion requiring the installation of three additional 24-inch octagonal piles on the south side of the mooring dolphin.

Overall, this phase is anticipated to require a 20-person workforce and 72 trucks over approximately 6 months.

Phase 6: Shoreline and Utilities Construction

Installation of the proposed drydock will result in the reduction of an existing vessel berth (Pier 1 North), such that there is a relatively minor increase in net utility demand. The electrical and mechanical utilities for this project will be similar to the existing systems found at the BAE Systems' shipyard as well as on most heavy-duty piers that service US Navy and commercial ships. It is anticipated that on-shore utilities will require a 15-person workforce with 24 total trucks over approximately 3 months.

BAE Systems Real Estate Agreements: As previously stated, BAE Systems currently leases approximately 9.8 acres of land and 16.6 acres of water from the District. This lease is scheduled to expire on August 31, 2034. Based on its investments proposed as part of the proposed project, BAE Systems proposes to extend the lease term of its existing leasehold with the District by 24 years. Additionally, BAE Systems proposes to lease, on a long-term basis, the TUOP parcel currently leased (5-year term) by the District to BAE Systems. The TUOP between the District and BAE Systems is set to expire on October 31, 2019. The long-term lease may include, but would not be limited to, an amendment to BAE Systems existing lease. No changes in existing uses on the TUOP parcel are anticipated to occur and would be leased, on a long-term basis, to BAE Systems through a real estate agreement for a continuation of those uses

once the existing TUOP between the District and BAE Systems expires in October 2019. No construction activities are anticipated or associated with the real estate agreements between the District and BAE Systems.

Removal of Cooling Tunnels: As previously stated, the removal of the cooling tunnels would require excavation of soil, dewatering, installation of shoring to protect the excavation, installation of a coffer dam, demolition and removal of tunnels (concrete) and backfill with clean structural fill. In addition, numerous structures, equipment and operating systems are located over the tunnels. Temporary relocation of these structures and uses are anticipated. There are no project-level details available at this time that identifies the demolition/removal scheduling or phasing for this component. For purposes of this analysis, it is assumed that a total of 490 ft of intake tunnels and 450 ft of discharge tunnels would be removed within the District's jurisdiction.

1.4.2 Operational Activities

Floating Drydock and Associated Activities/Improvements: Drydocks are used to conduct repair and maintenance activity which cannot normally be conducted while the vessel is waterborne. These activities generally include exterior hull repair, preservation (abrasive blasting and/or hydroblasting and painting), shaft repair, propeller and rudder repair, and repair/replacement of valves and fittings below the waterline. These activities are currently conducted within the existing POSD drydock at the site. While numerous industrial processes are currently conducted at the existing Pier 1 North berth on the same classes and types of vessels, some of those processes are more extensive once the vessel is dry-berthed, as opposed to wet-berthed (e.g., pierside verses in drydock). In addition, BAE Systems currently subcontracts hull preservation to several local contractors.

Implementation of the drydock component would result in a need for additional employees on the BAE Systems facility. For purposes of this analysis, it is anticipated that an addition 25–30 workers may be required for a large hull preservation job (abrasive blasting and painting). An additional 40–50 workers may be needed for other drydock operations related to hull repair, welding, and mechanical repair. It is also expected that additional project management requirements will add two to three BAE Systems ship superintendents to manage this ship repair and maintenance work and that as many as ten additional customer-related staff will visit the site as a result of the drydock operation. Therefore, a total of 77 to 93 new employees are anticipated to be required with implementation of the drydock. These new employees will be staggered throughout the three existing work shifts at BAE Systems. Table H provides the distribution of potential new employees among the three work shifts.

Table H: Drydock Employment Distribution

Work Type	Number of New Employees/Visitors	1st Shift (6:00 a.m. – 2:30 p.m.)	2nd Shift (2:30 p.m. – 10:30 p.m.)	3rd Shift (10:30 p.m. – 6:00 a.m.)
Hull Preservation (subcontractor)[1]	25–30	19	9	2
Welding, Machinery, Other Drydock Operations (BAE Systems)[2]	40–50	32	15	3
Project Management (BAE Systems)[3]	2–3	3	0	0
Customer Visits	10	10	0	0
Total	77–93	64	24	5

Source: BAE Systems (August 2014).

1 Hull preservation activities (blasting and painting) are conducted primarily during the daylight hours and generally follow the shipyards work shifts (65 percent, 1st shift; 30 percent, 2nd shift; and 5 percent, 3rd shift).

2 Worker distribution for these activities is anticipated to be consistent with existing shipyard work shifts (65 percent, 1st shift; 30 percent, 2nd shift; and 5 percent, 3rd shift).

3 Ship superintendents are anticipated to all work during the 1st work shift.

Operational Parking and Traffic. BAE Systems currently controls 1,304 parking spaces for use by employees, subcontractors, customers, and visitors. As previously discussed, the drydock component will not substantially modify the existing numbers and types of ships currently utilizing the BAE Systems facility. Based on the above increase in shipyard personnel, it is anticipated that operation of the drydock will require 64 additional parking spaces on 1st shift, 24 spaces on 2nd shift, and 5 spaces on 3rd shift. Based on information provided by BAE Systems, 20 percent of employees currently utilize an alternative means of transportation such as bus, trolley, and/or carpool. BAE Systems currently subsidizes 10 vanpools, with each van having an 11-person capacity with an average ridership of 7 per van during the first shift. In addition, BAE Systems runs a shuttle to and from the Barrio Logan Trolley Station during the first shift, with a ridership of 40 to 55 persons each day, and many more walking to the facility when the vans are full. Bicycle racks and motorcycle parking are also available at BAE Systems and are utilized by 40 to 50 persons each day during the first shift. Therefore, it is anticipated that 20 percent of the new employees will also utilize alternative transportation.

The expected additional 93 drydock employees as identified in Table H are assumed to follow the existing parking/traffic demographics, including assumptions on carpooling and municipal transportation (existing trolley and bus service). It is estimated that the siting of a new drydock at the BAE Systems shipyard could cause an increase of 93 one-way vehicle trips and parking spaces for all shifts. Those vehicle trips are anticipated to occur consistent with the shift differentials, which would equate to the following:

- 1st Shift: 64 vehicles arriving 5:30 a.m.–6:30 a.m. and departing 2:30 p.m.–3:00 p.m.
- 2nd Shift: 24 vehicles arriving 2:00 p.m.–2:30 p.m. and departing 10:00 p.m.–10:30 p.m.
- 3rd Shift: 5 vehicles arriving 10:00 p.m.–10:30 p.m. and departing 6:00 a.m.–6:30 a.m.

Operational Delivery Truck Traffic. BAE Systems' main distribution center/warehouse is located on Market Street near State Route 94 (SR-94). BAE Systems controls traffic flow for material deliveries to the site and only delivers materials when they are needed. Based on the

anticipated vessel repair work to be conducted within the proposed drydock, it is estimated that 1–2 additional delivery truck trips per week from the BAE Systems warehouse to the proposed drydock may be required. The truck route used by BAE Systems for site deliveries from its warehouse is Harbor Drive to 32nd Street/I-15 North.

BAE Systems Real Estate Agreements: Based on its investments proposed as part of the proposed project, BAE Systems proposes to extend the lease term of its existing lease with the District by 24 years. Therefore, it is assumed that operation of the proposed project would continue through the year 2058. Additionally, BAE Systems proposes to lease, on a long-term basis, the TUOP parcel currently leased (5-year) by the District to BAE Systems. The TUOP between the District and BAE Systems is set to expire on October 31, 2019. The long-term lease may include, but would not be limited to, an amendment to BAE Systems existing lease. No changes in existing uses on the TUOP parcel are anticipated to occur and would be leased to BAE Systems through a real estate agreement for a continuation of those uses once the existing TUOP between the District and BAE Systems expires in October 2019.

Removal of Cooling Tunnels: As previously stated, the removal of the cooling tunnels would require excavation of soil, dewatering, installation of shoring to protect the excavation, installation of a coffer dam, demolition and removal of tunnels (concrete) and backfill with clean structural fill. Once the removal of the cooling tunnels occurs, the project site would be restored to its existing condition. Therefore, no operational activities are associated with the removal of the cooling tunnels component.

1.5 Required Discretionary Actions and Permits

The District is the Lead Agency for CEQA and will be the certifying body for the EIR. The District will also issue the CDP and other entitlements for land and water areas within their jurisdiction. Outside of District jurisdiction, the CSLC and the CCC will issue permits for leaseholds within their jurisdiction. The following discretionary actions by the District are necessary for implementation of the proposed project:

- Certification of the Final Environmental Impact Report (UPD No. EIR-2014-31);
- Approval of the proposed BAE Systems Pier 1 North Drydock Project;
- Approval of a CDP for the portion of the proposed project in the District's jurisdiction;
- Approval of Engineering Plans; and
- Approval of lease amendment or other real estate agreements.

Various federal, State and local laws, regulations, and permit requirements will apply to the proposed project. Table I identifies potential required permits and approvals that would be required for the BAE Systems Pier 1 North Drydock Project.

Table I: Potential Permits and Approvals

Agency/Department	Permit/Approvals	Action Associated With or Required For
Federal Agencies		
US Army Corps of Engineers	Individual/Nationwide Section 404 Permit (CWA, 33 USC 1341)	Responsible for issuing Section 404 permits for dredged or fill material into waters of the US (up to higher high water line in tidal waters) and into wetlands in compliance with EPA regulations.
	Section 10, Rivers and Harbors Act Permit	Regulates construction, excavation, and deposition in navigable waters (up to mean high water in tidal waters).
	Marine Protection, Research, and Sanctuaries Act of 1972, Section 103	Regulates dumping and transport for dumping of material into US waters.
	40 CFR, Part 227 – Criteria for the Evaluation of Permit Applications for Ocean Dumping of Materials	Regulates dumping of materials into US waters and evaluates the need for ocean disposal.
US Environmental Protection Agency	Ocean Dumping Permit	Ocean Disposal
US Coast Guard	Concurrence with Ocean Dumping Permit	Ocean Disposal
National Marine Fisheries Service and US Fish and Wildlife Service	Concurrence with Ocean Dumping Permit	Ocean Disposal
State Agencies		
State Water Resources Control Board, Regional Water Quality Control Board	401 Certification (CWA, 33 USC 1341, if the project requires USACE 404 Permit) Water Discharge Requirements (WDRs) for dredging	Discharge into waters and wetlands during demolition, construction, and dredging activities.
California Coastal Commission	Coastal Development Permit	Development outside the District's jurisdiction.
State Lands Commission (SLC)	Obtain a lease for dredging outside District tidelands, and operation of the drydock outside District's tidelands	Development within the State Land Commission's jurisdiction.
California Department of Fish and Wildlife	Concurrence with Ocean Dumping Permit	Ocean Disposal
Local Agencies		
San Diego Unified Port District	Certification of Final EIR; approval of Pier 1 North Drydock Project; Coastal Development Permit for the portion of the proposed project beyond the US Pierhead in the District's jurisdiction; Coastal Act approval, approval of Engineering Plans; and approval of lease amendment and other real estate agreements.	As Lead Agency under CEQA; for development within the District's jurisdiction.
City of San Diego	Building permits	On-shore utilities and fire protection

CEQA = California Environmental Quality Act
CFR = Code of Federal Regulations
CWA = Clean Water Act
District = San Diego Unified Port District
EIR = Environmental Impact Report
EPA = Environmental Protection Agency
PRC = Public Resource Code
USC = United States Code

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APPENDIX B

EXISTING COUNTS

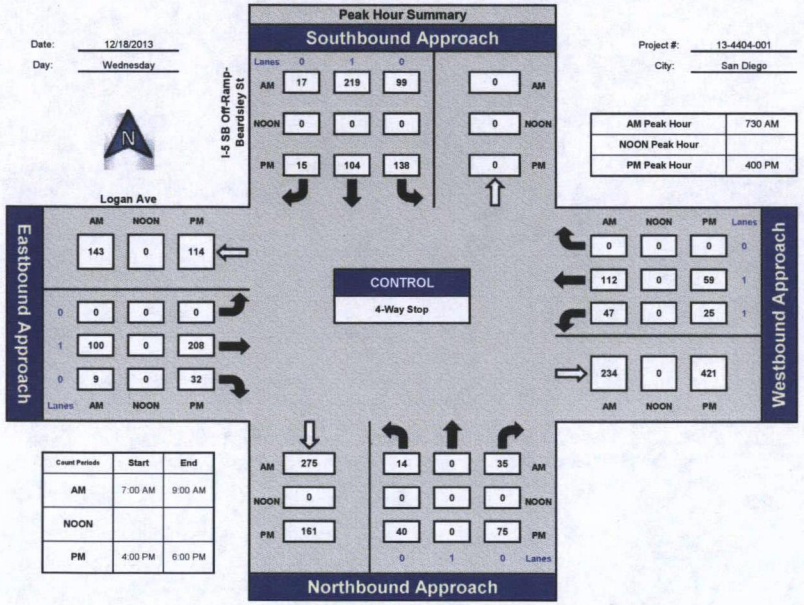
ITM Peak Hour Summary

Prepared by:
NDS
National Data & Surveying Services

I-5 SB Off-Ramp-Beardsley St and Logan Ave , San Diego

Date: 12/18/2013
Day: Wednesday

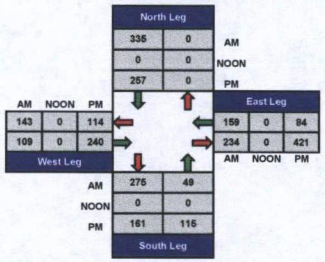
Project #: 13-4404-001
City: San Diego



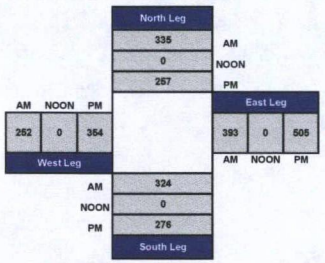
AM Peak Hour	730 AM
NOON Peak Hour	
PM Peak Hour	400 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



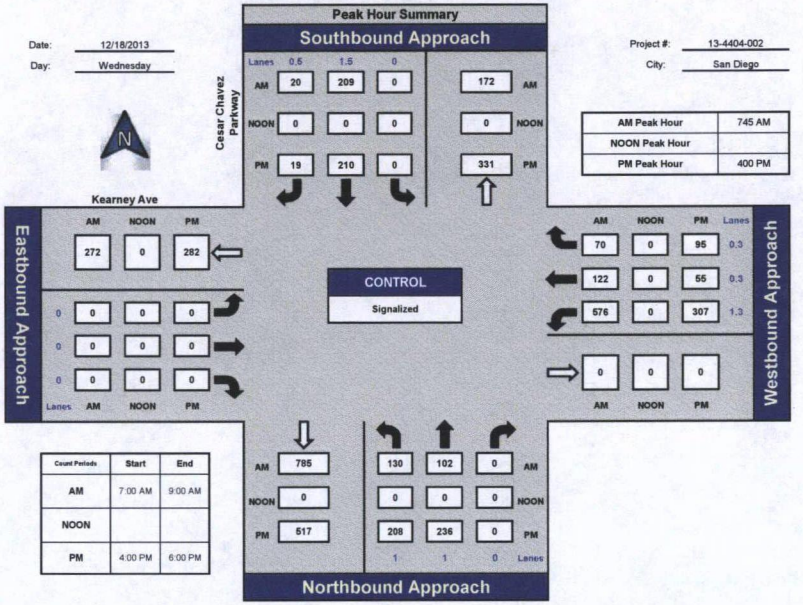
ITM Peak Hour Summary

Prepared by:
NDS
National Data & Surveying Services

Cesar Chavez Parkway and Kearney Ave , San Diego

Date: 12/18/2013
Day: Wednesday

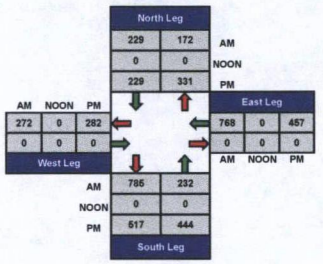
Project #: 13-4404-002
City: San Diego



AM Peak Hour	745 AM
NOON Peak Hour	
PM Peak Hour	400 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



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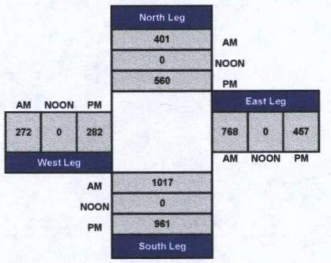

537732 PAGE 508

ITM Peak Hour Summary

Prepared by:
NDS
National Data & Surveying Services

Cesar Chavez Parkway and Logan Ave , San Diego

Date: 12/18/2013
Day: Wednesday

Project #: 13-4404-003
City: San Diego

AM Peak Hour	800 AM
NOON Peak Hour	
PM Peak Hour	415 PM

Peak Hour Summary

Southbound Approach (Cesar Chavez Parkway)

Lanes	0	2	1		
AM	95	564	80	265	AM
NOON	0	0	0	0	NOON
PM	61	322	98	438	PM

Eastbound Approach (Logan Ave)

	AM	NOON	PM
	139	0	89
1	68	0	88
1	107	0	229
0	61	0	80
Lanes	AM	NOON	PM

CONTROL: Signalized

Westbound Approach

	AM	NOON	PM	Lanes
	21	0	30	1
	24	0	18	1
	17	0	6	1
	327	0	677	
	AM	NOON	PM	

Northbound Approach

AM	642	20 / 176 / 140	AM
NOON	0	0 / 0 / 0	NOON
PM	408	10 / 320 / 350	PM
		1 / 2 / 1	Lanes

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs

	North Leg	East Leg	West Leg	South Leg
AM	739	62	139	642
NOON	0	0	0	336
PM	481	54	236	408
		327	397	680
		0	0	0
		677	0	0

Total Volume Per Leg

	North Leg	East Leg	West Leg	South Leg
AM	1004	389	375	978
NOON	0	0	0	0
PM	919	731	486	1088

ITM Peak Hour Summary

Prepared by:
NDS
National Data & Surveying Services

Cesar Chavez Parkway and Harbor Dr , San Diego

Date: 12/18/2013
Day: Wednesday

Project #: 13-4404-004
City: San Diego

AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	415 PM

Peak Hour Summary

Southbound Approach (Cesar Chavez Parkway)

Lanes	1	0.5	0.5		
AM	286	94	35	189	AM
NOON	0	0	0	0	NOON
PM	198	66	33	476	PM

Eastbound Approach (Harbor Dr)

	AM	NOON	PM
	816	0	343
1	95	0	345
2	142	0	619
0	28	0	17
Lanes	AM	NOON	PM

CONTROL: Signalized

Westbound Approach

	AM	NOON	PM	Lanes
	49	0	30	0
	518	0	129	4
	32	0	16	0
	194	0	679	
	AM	NOON	PM	

Northbound Approach

AM	154	12 / 45 / 17	AM
NOON	0	0 / 0 / 0	NOON
PM	99	16 / 101 / 27	PM
		1 / 0.5 / 0.5	Lanes

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs

	North Leg	East Leg	West Leg	South Leg
AM	415	599	816	154
NOON	0	0	0	74
PM	297	175	266	0
		194	961	0
		0	0	0
		679	0	144

Total Volume Per Leg

	North Leg	East Leg	West Leg	South Leg
AM	604	793	1081	228
NOON	0	0	0	0
PM	773	854	1324	243

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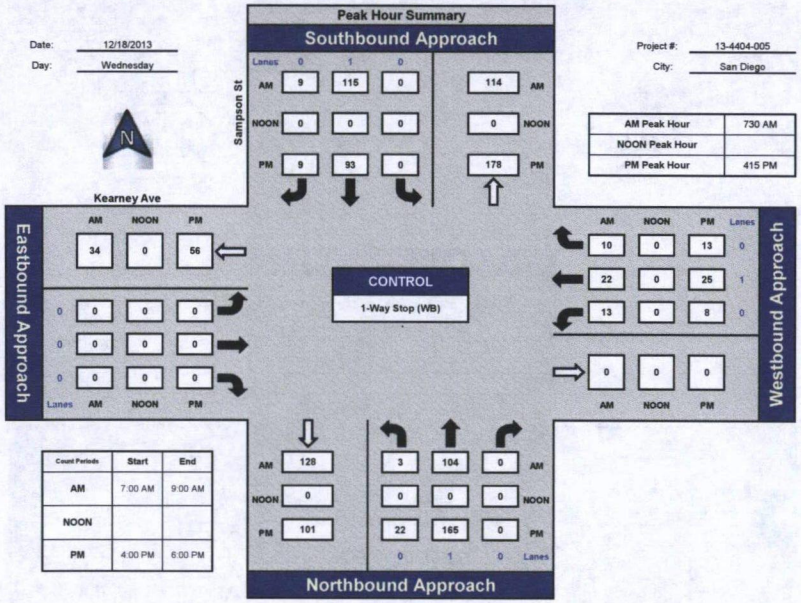
ITM Peak Hour Summary

Prepared by:
NDS
National Data & Surveying Services

Sampson St and Kearney Ave , San Diego

Date: 12/18/2013
Day: Wednesday

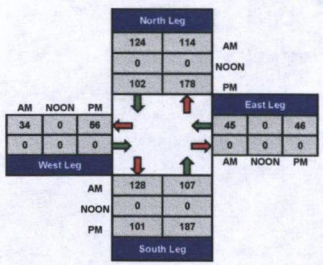
Project #: 13-4404-005
City: San Diego



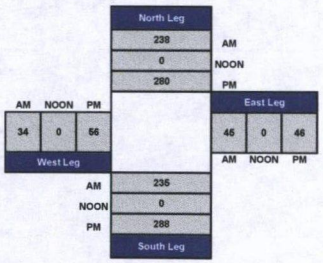
AM Peak Hour	730 AM
NOON Peak Hour	
PM Peak Hour	415 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



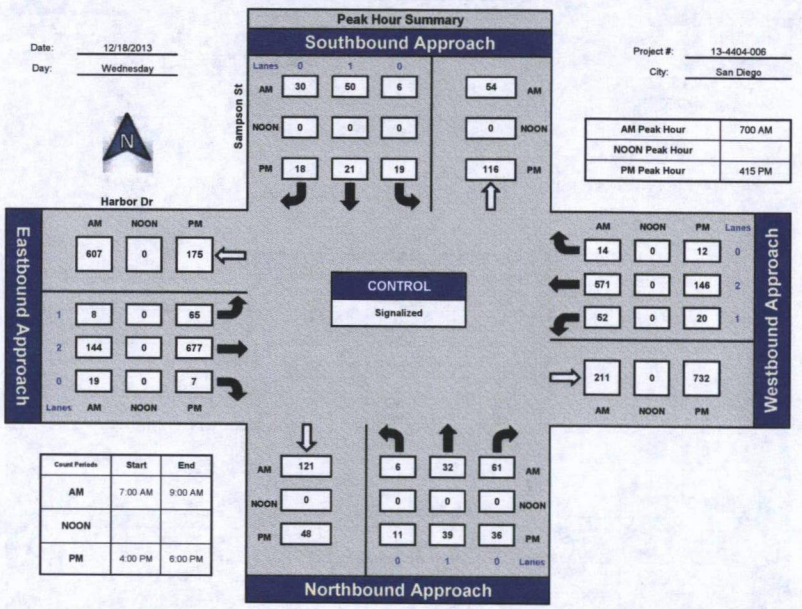
ITM Peak Hour Summary

Prepared by:
NDS
National Data & Surveying Services

Sampson St and Harbor Dr , San Diego

Date: 12/18/2013
Day: Wednesday

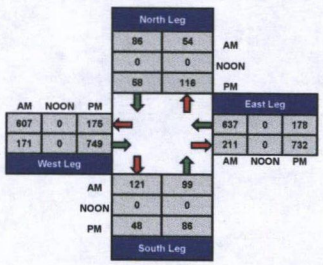
Project #: 13-4404-006
City: San Diego



AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	415 PM

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



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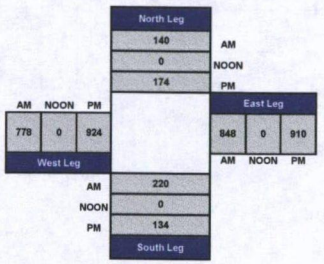


63732 PAGE 510

ITM Peak Hour Summary

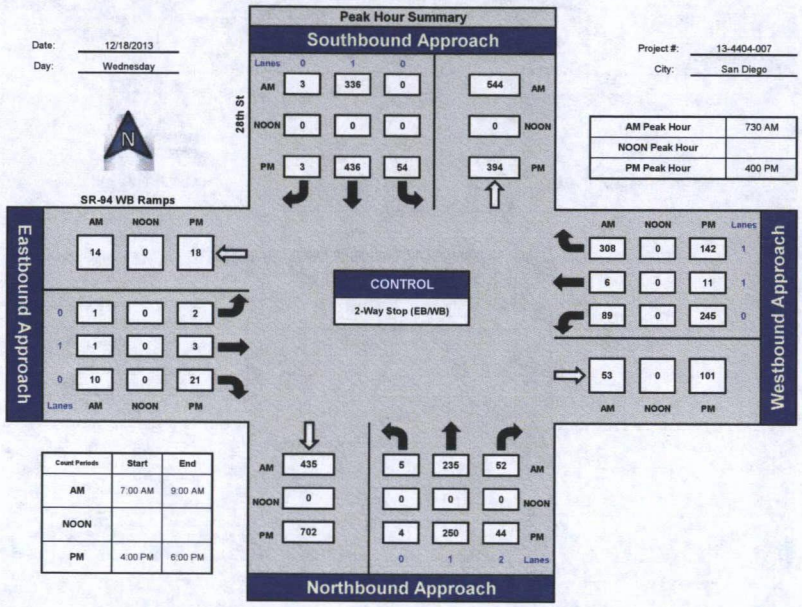
Prepared by:
NDS
National Data & Surveying Services

28th St and SR-94 WB Ramps , San Diego

Date: 12/18/2013
Day: Wednesday

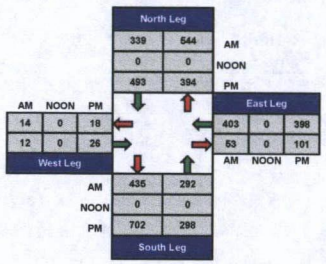
Project #: 13-4404-007
City: San Diego

AM Peak Hour	730 AM
NOON Peak Hour	
PM Peak Hour	400 PM

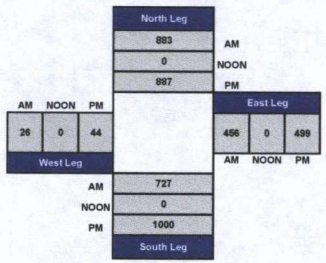


Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



ITM Peak Hour Summary

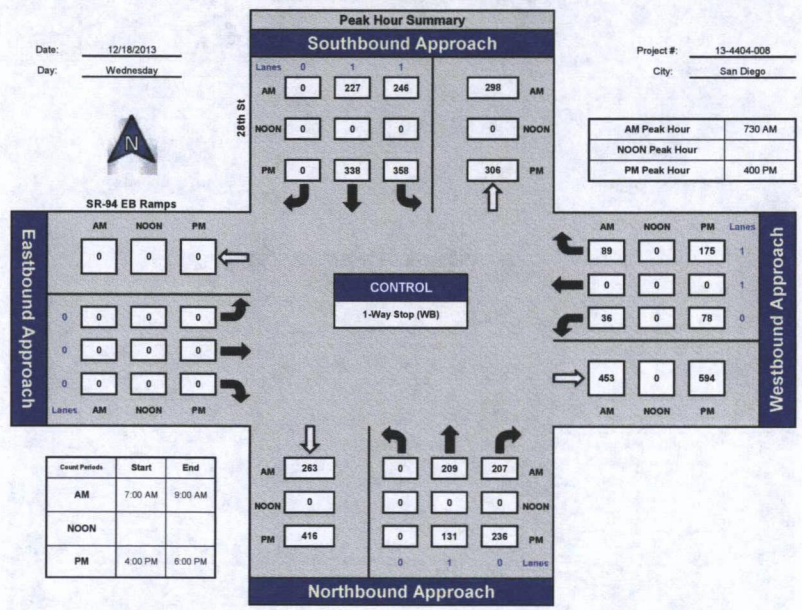
Prepared by:
NDS
National Data & Surveying Services

28th St and SR-94 EB Ramps , San Diego

Date: 12/18/2013
Day: Wednesday

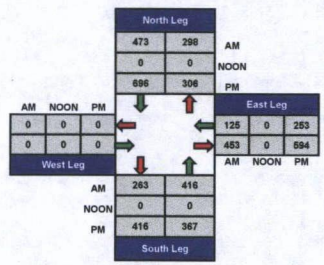
Project #: 13-4404-008
City: San Diego

AM Peak Hour	730 AM
NOON Peak Hour	
PM Peak Hour	400 PM

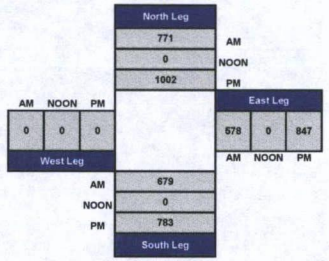


Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



93732 PAGE 511

ITM Peak Hour Summary

Prepared by:
NDS
National Data & Surveying Services

28th St and National Ave , San Diego

Date: 12/18/2013
Day: Wednesday

Project #: 13-4404-009
City: San Diego

AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	415 PM

Peak Hour Summary

Southbound Approach

Lanes	0	1	0		
AM	228	100	22	205	AM
NOON	0	0	0	0	NOON
PM	101	182	52	338	PM

28th St

Eastbound Approach

National Ave

	AM	NOON	PM
	835	0	439
1	86	0	94
2	162	0	398
0	20	0	92
Lanes	AM	NOON	PM

CONTROL
Signalized

Westbound Approach

	AM	NOON	PM	Lanes
	61	0	152	0
	558	0	320	1
	87	0	148	1
	198	0	497	
	AM	NOON	PM	

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Northbound Approach

AM	207	49	58	14
NOON	0	0	0	0
PM	422	18	92	47
		0	2	0

Lanes

Total Ins & Outs

	AM	NOON	PM
North Leg	350	0	335
	205	0	338
West Leg	835	0	439
	288	0	584
East Leg	706	0	620
	198	0	497
South Leg	207	0	422
	121	0	157

Total Volume Per Leg

	AM	NOON	PM
North Leg	555	0	673
West Leg	1103	0	1023
East Leg	904	0	1117
South Leg	328	0	579

ITM Peak Hour Summary

Prepared by:
NDS
National Data & Surveying Services

28th St and Boston Ave , San Diego

Date: 12/18/2013
Day: Wednesday

Project #: 13-4404-010
City: San Diego

AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	400 PM

Peak Hour Summary

Southbound Approach

Lanes	0.5	1.5	1		
AM	28	548	86	428	AM
NOON	0	0	0	0	NOON
PM	18	672	190	618	PM

28th St

Eastbound Approach

Boston Ave

	AM	NOON	PM
	51	0	35
1	23	0	25
1	51	0	176
0	4	0	9
Lanes	AM	NOON	PM

CONTROL
Signalized

Westbound Approach

	AM	NOON	PM	Lanes
	46	0	40	0
	13	0	12	1
	9	0	11	1
	188	0	578	
	AM	NOON	PM	

Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Northbound Approach

AM	561	10	359	51
NOON	0	0	0	0
PM	692	5	553	212
		1	2	1

Lanes

Total Ins & Outs

	AM	NOON	PM
North Leg	662	0	880
	428	0	618
West Leg	51	0	78
	35	0	210
East Leg	68	0	188
	63	0	578
South Leg	561	0	692
	420	0	770

Total Volume Per Leg

	AM	NOON	PM
North Leg	1090	0	1498
West Leg	129	0	245
East Leg	256	0	641
South Leg	981	0	1462

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ITM Peak Hour Summary

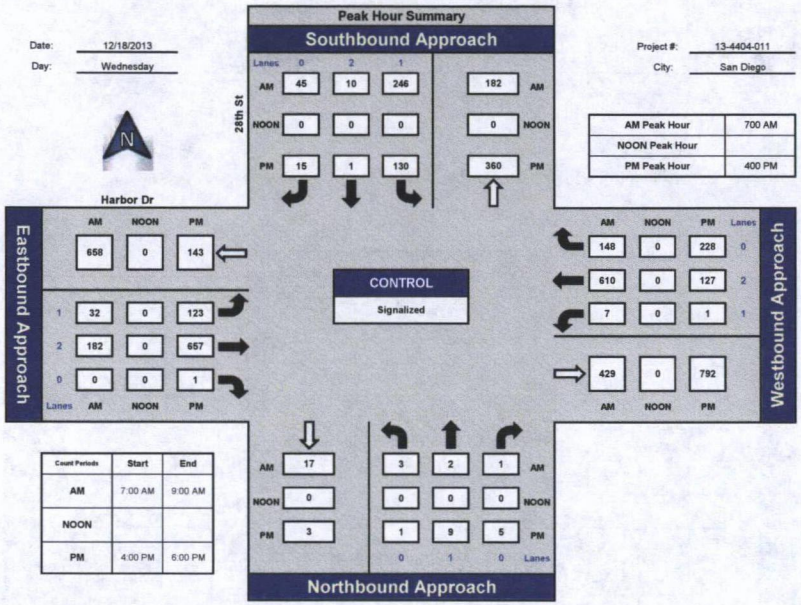
Prepared by:
NDS
National Data & Surveying Services

28th St and Harbor Dr , San Diego

Date: 12/18/2013
Day: Wednesday

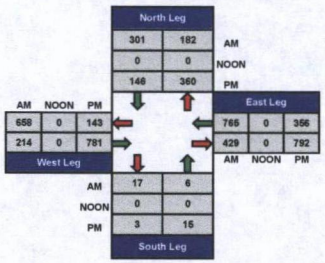
Project #: 13-4404-011
City: San Diego

AM Peak Hour	700 AM
NOON Peak Hour	
PM Peak Hour	400 PM

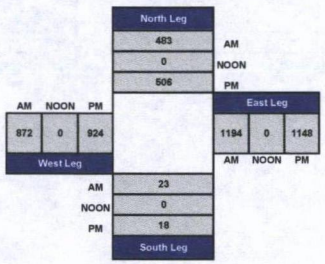


Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



ITM Peak Hour Summary

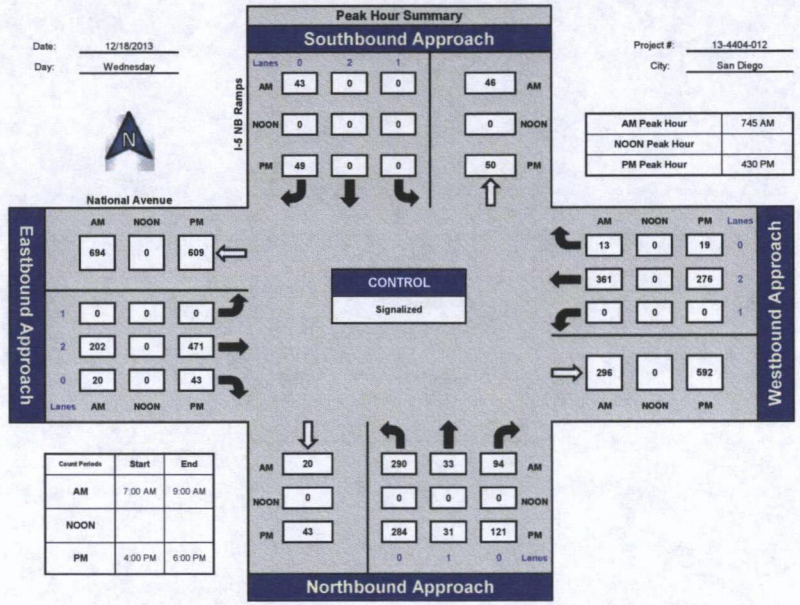
Prepared by:
NDS
National Data & Surveying Services

I-5 NB Ramps and National Avenue , San Diego

Date: 12/18/2013
Day: Wednesday

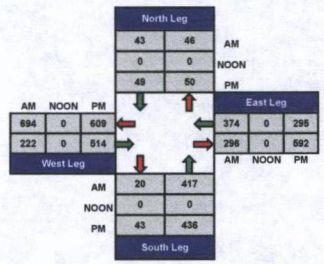
Project #: 13-4404-012
City: San Diego

AM Peak Hour	745 AM
NOON Peak Hour	
PM Peak Hour	430 PM

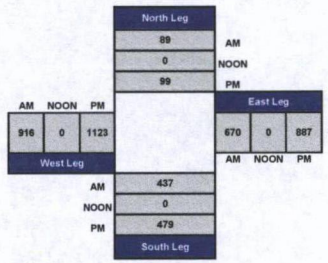


Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



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ITM Peak Hour Summary

Prepared by:

National Data & Surveying Services

I-5 SB On-Ramp-29th St and Boston Ave , San Diego

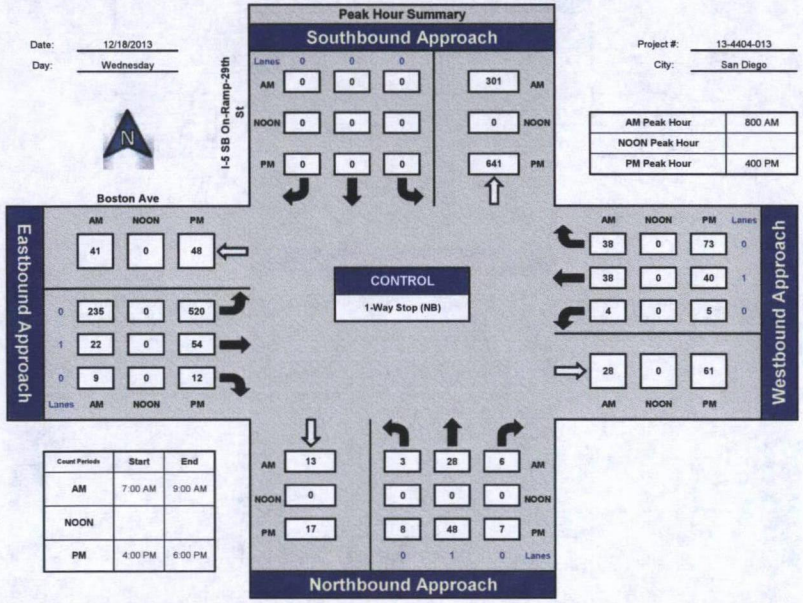
Date: 12/18/2013

Day: Wednesday

Project #: 13-4404-013

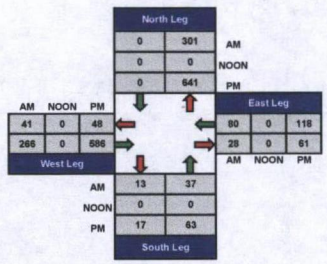
City: San Diego

AM Peak Hour	800 AM
NOON Peak Hour	
PM Peak Hour	400 PM

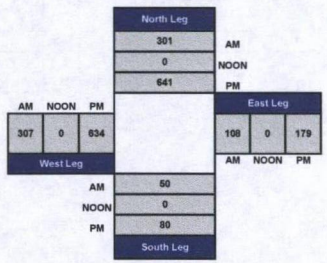


Count Periods	Start	End
AM	7:00 AM	9:00 AM
NOON		
PM	4:00 PM	6:00 PM

Total Ins & Outs



Total Volume Per Leg



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Prepared by NDS/ATD

VOLUME

Logan Ave btwn I-5 SB Off-Ramp/Beardsley St&CesarChavezPkwy

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_001

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	4,814	1,613	6,427

AM Period	NB		SB		EB		WB		TOTAL
00:00					13		0		13
00:15					13		6		19
00:30					15		0		15
00:45					12	53	2	8	14	61	118	432
01:00					7		2		9		
01:15					20		3		23		
01:30					11		3		14		
01:45					9	47	1	9	10	56	118	439
02:00					9		0		9		
02:15					9		2		11		
02:30					5		4		9		
02:45					2	25	2	8	4	33	164	562
03:00					3		1		4		
03:15					2		1		3		
03:30					3		2		5		
03:45					7	15	6	10	13	25	123	554
04:00					3		1		4		
04:15					2		3		5		
04:30					5		6		11		
04:45					8	18	3	13	11	31	122	492
05:00					9		6		15		
05:15					17		7		24		
05:30					26		14		40		
05:45					25	77	17	44	42	121	89	423
06:00					27		8		35		
06:15					28		14		42		
06:30					36		24		60		
06:45					48	139	20	66	68	205	52	298
07:00					52		26		78		60
07:15					51		31		82		47
07:30					68		41		109		46
07:45					59	230	32	130	91	360	39	192
08:00					53		33		86		54
08:15					58		39		97		44
08:30					67		34		101		39
08:45					59	237	25	131	84	368	47	184
09:00					52		24		76		50
09:15					51		34		85		47
09:30					57		24		81		55
09:45					60	220	24	106	84	326	40	192
10:00					78		23		101		51
10:15					64		30		94		51
10:30					57		22		79		48
10:45					75	274	28	103	103	377	33	183
11:00					64		21		85		33
11:15					90		34		124		25
11:30					76		27		103		35
11:45					63	293	25	107	88	400	20	113
TOTALS						1628		735		2363
SPLIT %						68.9%		31.1%		36.8%

PM Period	NB		SB		EB		WB		TOTAL
12:00					82		23		105
12:15					64		33		97
12:30					82		30		112
12:45					79	307	39	125	118	432
13:00					88		30		118
13:15					61		36		97
13:30					80		26		106
13:45					88	317	30	122	118	439
14:00					74		32		106
14:15					97		25		122
14:30					150		20		170
14:45					145	466	19	96	164	562
15:00					117		26		143
15:15					106		25		131
15:30					130		27		157
15:45					106	459	17	95	123	554
16:00					111		23		134
16:15					91		15		106
16:30					109		21		130
16:45					92	403	30	89	122	492
17:00					116		12		128
17:15					94		26		120
17:30					63		23		86
17:45					68	341	21	82	89	423
18:00					76		25		101
18:15					61		16		77
18:30					42		26		68
18:45					41	220	11	78	52	298
19:00					38		22		60
19:15					32		15		47
19:30					30		16		46
19:45					28	128	11	64	39	192
20:00					39		15		54
20:15					31		13		44
20:30					31		8		39
20:45					37	138	10	46	47	184
21:00					42		8		50
21:15					42		5		47
21:30					43		12		55
21:45					33	160	7	32	40	192
22:00					42		9		51
22:15					41		10		51
22:30					37		11		48
22:45					29	149	4	34	33	183
23:00					31		2		33
23:15					18		7		25
23:30					31		4		35
23:45					18	98	2	15	20	113
TOTALS						3186		878		4064
SPLIT %						78.4%		21.6%		63.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	4,814	1,613	6,427

AM Peak Hour	11:15	07:30	11:15	PM Peak Hour	14:30	12:30	14:30
AM Pk Volume	311	145	420	PM Pk Volume	518	135	608
Pk Hr Factor	0.864	0.884	0.847	Pk Hr Factor	0.863	0.865	0.894
7 - 9 Volume	467	261	728	4 - 6 Volume	744	171	915
7 - 9 Peak Hour	07:30	07:30	07:30	4 - 6 Peak Hour	16:30	16:45	16:30
7 - 9 Pk Volume	238	145	383	4 - 6 Pk Volume	411	91	500
Pk Hr Factor	0.875	0.884	0.878	Pk Hr Factor	0.886	0.758	0.962

Prepared by NDS/ATD

VOLUME

Cesar Chavez Pkwy between Kearney Ave & Logan Ave

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_002

DAILY TOTALS	NB	SB	EB	WB	Tot
	4,941	9,470	0	0	14,411

AM Period	NB		SB		EB		WB		TOTAL
00:00	12		19						31
00:15	10		13						23
00:30	8		16						24
00:45	13	43	12	60					25	103
01:00	3		10						13
01:15	8		6						14
01:30	5		7						12
01:45	8	24	14	37					22	61
02:00	7		6						13
02:15	5		11						16
02:30	6		15						21
02:45	3	21	10	42					13	63
03:00	3		13						16
03:15	1		13						14
03:30	2		18						20
03:45	4	10	37	81					41	91
04:00	0		24						24
04:15	8		38						46
04:30	8		72						80
04:45	9	25	92	226					101	251
05:00	9		95						104
05:15	11		168						179
05:30	26		208						234
05:45	30	76	207	678					237	754
06:00	41		143						184
06:15	23		119						142
06:30	41		134						175
06:45	42	147	145	541					187	688
07:00	53		128						181
07:15	53		131						184
07:30	67		169						236
07:45	47	220	182	610					229	830
08:00	52		200						252
08:15	67		215						282
08:30	57		200						257
08:45	78	254	179	794					257	1048
09:00	67		144						211
09:15	58		141						199
09:30	65		159						224
09:45	78	268	131	575					209	843
10:00	84		117						201
10:15	68		122						190
10:30	71		131						202
10:45	60	283	127	497					187	780
11:00	70		119						189
11:15	92		131						223
11:30	80		126						206
11:45	85	327	150	526					235	853
TOTALS		1698		4667						6365
SPLIT %		26.7%		73.3%						44.2%

PM Period	NB		SB		EB		WB		TOT
12:00	88		122						210
12:15	85		110						195
12:30	76		142						218
12:45	84	333	142	516					226	849
13:00	90		140						230
13:15	78		161						239
13:30	78		146						224
13:45	83	329	158	605					241	934
14:00	70		164						234
14:15	102		144						246
14:30	146		160						306
14:45	125	443	161	629					286	1072
15:00	118		151						269
15:15	112		145						257
15:30	123		156						279
15:45	119	472	150	602					269	1074
16:00	115		120						235
16:15	122		137						259
16:30	119		129						248
16:45	91	447	126	512					217	959
17:00	111		100						211
17:15	114		124						238
17:30	56		133						189
17:45	83	364	104	461					187	825
18:00	72		110						182
18:15	63		105						168
18:30	51		110						161
18:45	74	260	82	407					156	667
19:00	62		105						167
19:15	43		75						118
19:30	39		73						112
19:45	49	193	84	337					133	530
20:00	48		77						125
20:15	29		58						87
20:30	32		51						83
20:45	35	144	56	242					91	386
21:00	28		58						86
21:15	33		64						97
21:30	25		50						75
21:45	20	106	50	222					70	328
22:00	37		42						79
22:15	22		41						63
22:30	21		42						63
22:45	15	95	39	164					54	259
23:00	13		20						33
23:15	15		28						43
23:30	14		31						45
23:45	15	57	27	106					42	163
TOTALS		3243		4803						8046
SPLIT %		40.3%		59.7%						55.8%

DAILY TOTALS	NB	SB	EB	WB	Total
	4,941	9,470	0	0	14,41

AM Peak Hour	11:15	07:45	08:00	PM Peak Hour	14:30	13:15	14:30
AM Pk Volume	345	797	1048	PM Pk Volume	501	629	1118
Pk Hr Factor	0.938	0.927	0.929	Pk Hr Factor	0.858	0.959	0.913
7 - 9 Volume	474	1404	1878	4 - 6 Volume	811	973	1784
7 - 9 Peak Hour	08:00	07:45	08:00	4 - 6 Peak Hour	16:00	16:00	16:00
7 - 9 Pk Volume	254	797	1048	4 - 6 Pk Volume	447	512	959
Pk Hr Factor	0.814	0.927	0.929	Pk Hr Factor	0.916	0.934	0.926

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Prepared by NDS/ATD

VOLUME

Cesar Chavez Pkwy between Logan Ave & Harbor Dr

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_003

DAILY TOTALS	NB	SB	EB	WB	Total
	4,720	6,856	0	0	11,576

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	13	3			16	12:00	86	101			187
00:15	9	4			13	12:15	96	93			189
00:30	2	5			7	12:30	69	112			181
00:45	8 32	6 18			14 50	12:45	81 332	115 421			196 753
01:00	5	5			10	13:00	67	96			163
01:15	5	3			8	13:15	86	105			191
01:30	8	4			12	13:30	65	130			195
01:45	6 24	6 18			12 42	13:45	88 306	127 458			215 764
02:00	3	3			6	14:00	100	116			216
02:15	3	6			9	14:15	89	103			192
02:30	6	3			9	14:30	109	101			210
02:45	8 20	7 19			15 39	14:45	97 395	147 467			244 862
03:00	5	7			12	15:00	96	116			212
03:15	1	9			10	15:15	94	114			208
03:30	6	11			17	15:30	119	121			240
03:45	3 15	15 42			18 57	15:45	91 400	126 477			217 877
04:00	4	20			24	16:00	105	116			221
04:15	10	25			35	16:15	117	115			232
04:30	16	19			35	16:30	120	121			241
04:45	24 54	26 90			50 144	16:45	87 429	97 449			184 878
05:00	27	43			70	17:00	119	101			220
05:15	22	74			96	17:15	90	83			173
05:30	40	102			142	17:30	81	108			189
05:45	40 129	87 306			127 435	17:45	85 375	94 386			179 761
06:00	43	105			148	18:00	67	65			132
06:15	33	99			132	18:15	59	75			134
06:30	43	96			139	18:30	62	65			127
06:45	45 164	102 402			147 566	18:45	60 248	48 253			108 501
07:00	61	118			179	19:00	32	54			86
07:15	55	121			176	19:15	33	44			77
07:30	61	150			211	19:30	32	56			88
07:45	65 242	143 532			208 774	19:45	38 135	34 188			72 323
08:00	57	153			210	20:00	48	51			99
08:15	57	151			208	20:15	25	49			74
08:30	57	110			167	20:30	32	42			74
08:45	72 243	135 549			207 792	20:45	24 129	46 188			70 317
09:00	73	124			197	21:00	23	38			61
09:15	60	102			162	21:15	22	33			55
09:30	81	113			194	21:30	27	32			59
09:45	73 287	98 437			171 724	21:45	18 90	39 142			57 232
10:00	64	100			164	22:00	21	21			42
10:15	62	105			167	22:15	23	26			49
10:30	75	102			177	22:30	17	27			44
10:45	67 268	101 408			168 676	22:45	17 78	37 111			54 189
11:00	66	89			155	23:00	9	20			29
11:15	71	91			162	23:15	9	24			33
11:30	65	99			164	23:30	10	23			33
11:45	83 285	118 397			201 682	23:45	12 40	31 98			43 138
TOTALS	1763	3218			4981	TOTALS	2957	3638			6595
SPLIT %	35.4%	64.6%			43.0%	SPLIT %	44.8%	55.2%			57.0%

DAILY TOTALS	NB	SB	EB	WB	Total
	4,720	6,856	0	0	11,576

AM Peak Hour	11:45	07:30		PM Peak Hour	16:15	14:45		15:45
AM Pk Volume	334	597		PM Pk Volume	443	498		911
Pk Hr Factor	0.870	0.975		Pk Hr Factor	0.923	0.847		0.945
7 - 9 Volume	485	1081		4 - 6 Volume	804	835		1639
7 - 9 Peak Hour	08:00	07:30		4 - 6 Peak Hour	16:15	16:00		16:00
7 - 9 Pk Volume	243	597		4 - 6 Pk Volume	443	449		878
Pk Hr Factor	0.844	0.975		Pk Hr Factor	0.923	0.928		0.911

Prepared by NDS/ATD

VOLUME

Kearney Ave between Cesar Chavez Parkway & Sampson St

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_004

DAILY TOTALS	NB	SB	EB	WB	Tot
	0	0	0	496	496

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOT
00:00			0	0	0	12:00			0	4	4
00:15			0	1	1	12:15			0	2	2
00:30			0	0	0	12:30			0	6	6
00:45			0	0 1	1	12:45			0	9 21	9 21
01:00			0	2	2	13:00			0	9	9
01:15			0	0	0	13:15			0	9	9
01:30			0	0	0	13:30			0	6	6
01:45			0	1 3	1 3	13:45			0	7 31	7 31
02:00			0	0	0	14:00			0	9	9
02:15			0	1	1	14:15			0	10	10
02:30			0	0	0	14:30			0	10	10
02:45			0	0 1	0 1	14:45			0	16 45	16 45
03:00			0	0	0	15:00			0	14	14
03:15			0	0	0	15:15			0	15	15
03:30			0	0	0	15:30			0	7	7
03:45			0	1 1	1 1	15:45			0	12 48	12 48
04:00			0	1	1	16:00			0	9	9
04:15			0	0	0	16:15			0	17	17
04:30			0	3	3	16:30			0	11	11
04:45			0	2 6	2 6	16:45			0	14 51	14 51
05:00			0	1	1	17:00			0	12	12
05:15			0	0	0	17:15			0	10	10
05:30			0	4	4	17:30			0	15	15
05:45			0	6 11	6 11	17:45			0	5 42	5 42
06:00			0	8	8	18:00			0	6	6
06:15			0	5	5	18:15			0	9	9
06:30			0	4	4	18:30			0	6	6
06:45			0	16 33	16 33	18:45			0	4 25	4 25
07:00			0	10	10	19:00			0	2	2
07:15			0	3	3	19:15			0	3	3
07:30			0	9	9	19:30			0	4	4
07:45			0	8 30	8 30	19:45			0	2 11	2 11
08:00			0	11	11	20:00			0	6	6
08:15			0	7	7	20:15			0	6	6
08:30			0	9	9	20:30			0	1	1
08:45			0	4 31	4 31	20:45			0	7 20	7 20
09:00			0	6	6	21:00			0	4	4
09:15			0	2	2	21:15			0	2	2
09:30			0	11	11	21:30			0	2	2
09:45			0	7 26	7 26	21:45			0	1 9	1 9
10:00			0	5	5	22:00			0	3	3
10:15			0	8	8	22:15			0	3	3
10:30			0	4	4	22:30			0	3	3
10:45			0	6 23	6 23	22:45			0	2 11	2 11
11:00			0	5	5	23:00			0	2	2
11:15			0	2	2	23:15			0	1	1
11:30			0	3	3	23:30			0	0	0
11:45			0	3 13	3 13	23:45			0	0 3	0 3
TOTALS				179	179	TOTALS				317	317
SPLIT %				100.0%	36.1%	SPLIT %				100.0%	63.9%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	0	496	4

AM Peak Hour	06:45	06:45		PM Peak Hour	14:30	14:30		14:30
AM Pk Volume	38	38		PM Pk Volume	55	55		55
Pk Hr Factor	0.594	0.594		Pk Hr Factor	0.859	0.859		0.859
7 - 9 Volume	61	61		4 - 6 Volume	93	93		93
7 - 9 Peak Hour	07:30	07:30		4 - 6 Peak Hour	16:15	16:15		16:15
7 - 9 Pk Volume	35	35		4 - 6 Pk Volume	54	54		54
Pk Hr Factor	0.795	0.795		Pk Hr Factor	0.794	0.794		0.794

SR 52 PM 5.9 5 of 6

Prepared by NDS/ATD

VOLUME

Harbor Dr between Cesar Chavez Parkway & Sampson St

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_005

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	4,946	3,512	8,458

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00			12	11	23	12:00			70	58	128
00:15			8	4	12	12:15			65	59	124
00:30			5	5	10	12:30			65	54	119
00:45			4	29 5 25	9 54	12:45			64 264	46 217	110 481
01:00			3	0	3	13:00			66	40	106
01:15			4	3	7	13:15			73	49	122
01:30			5	2	7	13:30			56	46	102
01:45			5	17 2 7	7 24	13:45			62 257	56 191	118 448
02:00			2	0	2	14:00			78	63	141
02:15			1	5	6	14:15			63	72	135
02:30			1	2	3	14:30			94	69	163
02:45			4	8 0 7	4 15	14:45			97 332	56 260	153 592
03:00			4	1	5	15:00			73	78	151
03:15			4	4	8	15:15			114	50	164
03:30			6	9	15	15:30			118	72	190
03:45			2	16 6 20	8 36	15:45			127 432	51 251	178 683
04:00			9	6	15	16:00			140	42	182
04:15			12	12	24	16:15			151	39	190
04:30			21	11	32	16:30			188	49	237
04:45			32	74 14 43	46 117	16:45			159 638	47 177	206 815
05:00			50	16	66	17:00			155	50	205
05:15			54	23	77	17:15			174	32	206
05:30			93	33	126	17:30			159	34	193
05:45			100	297 25 97	125 394	17:45			105 593	30 146	135 739
06:00			119	25	144	18:00			117	33	150
06:15			94	43	137	18:15			56	31	87
06:30			63	77	140	18:30			34	19	53
06:45			46	322 89 234	135 556	18:45			37 244	12 95	49 339
07:00			51	125	176	19:00			26	23	49
07:15			43	153	196	19:15			34	13	47
07:30			47	185	232	19:30			20	24	44
07:45			37	178 120 583	157 761	19:45			13 93	15 75	28 168
08:00			38	76	114	20:00			22	21	43
08:15			44	77	121	20:15			28	17	45
08:30			51	50	101	20:30			20	10	30
08:45			54	187 44 247	98 434	20:45			21 91	9 57	30 148
09:00			55	50	105	21:00			17	12	29
09:15			56	51	107	21:15			21	11	32
09:30			57	48	105	21:30			20	11	31
09:45			51	219 67 216	118 435	21:45			14 72	9 43	23 115
10:00			53	61	114	22:00			22	13	35
10:15			56	55	111	22:15			21	10	31
10:30			61	53	114	22:30			15	6	21
10:45			65	235 45 214	110 449	22:45			13 71	11 40	24 111
11:00			46	65	111	23:00			11	1	12
11:15			68	71	139	23:15			9	9	18
11:30			71	54	125	23:30			13	3	16
11:45			50	235 58 248	108 483	23:45			9 42	6 19	15 61
TOTALS				1817 1941	3758	TOTALS				3129 1571	4700
SPLIT %				48.4% 51.6%	44.4%	SPLIT %				66.6% 33.4%	55.6%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	4,946	3,512	8,458

AM Peak Hour			05:30		07:00	07:00	PM Peak Hour		16:30	14:15	16:30
AM Pk Volume			406		583	761	PM Pk Volume		676	275	854
Pk Hr Factor			0.853		0.788	0.820	Pk Hr Factor		0.899	0.881	0.901
7 - 9 Volume			365		830	1195	4 - 6 Volume		1231	323	1554
7 - 9 Peak Hour			08:00		07:00	07:00	4 - 6 Peak Hour		16:30	16:15	16:30
7 - 9 Pk Volume			187		583	761	4 - 6 Pk Volume		676	185	854
Pk Hr Factor			0.866		0.788	0.820	Pk Hr Factor		0.899	0.925	0.901

Prepared by NDS/ATD

VOLUME

Harbor Dr between Sampson St & 28th St

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_006

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	5,329	4,176	9,505

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00			10	11	21	12:00			75	75	150
00:15			7	3	10	12:15			58	77	135
00:30			4	7	11	12:30			65	69	134
00:45			5	26 5 26	10 52	12:45			80 278	50 271	130 549
01:00			2	0	2	13:00			74	51	125
01:15			5	3	8	13:15			81	59	140
01:30			4	4	8	13:30			70	62	132
01:45			6	17 4 11	10 28	13:45			70 295	59 231	129 526
02:00			2	3	5	14:00			91	84	175
02:15			1	5	6	14:15			91	110	201
02:30			1	4	5	14:30			105	94	199
02:45			6	10 0 12	6 22	14:45			121 408	55 343	176 751
03:00			3	4	7	15:00			84	92	176
03:15			5	4	9	15:15			112	67	179
03:30			5	12	17	15:30			114	73	187
03:45			4	17 7 27	11 44	15:45			129 439	47 279	176 718
04:00			14	11	25	16:00			159	42	201
04:15			10	15	25	16:15			173	40	213
04:30			23	22	45	16:30			176	46	222
04:45			26	73 17 65	43 138	16:45			175 683	52 180	227 863
05:00			32	26	58	17:00			184	46	230
05:15			35	45	80	17:15			189	35	224
05:30			77	52	129	17:30			168	29	197
05:45			87	231 37 160	124 391	17:45			110 651	32 142	142 793
06:00			97	44	141	18:00			110	29	139
06:15			80	64	144	18:15			58	34	92
06:30			58	90	148	18:30			43	19	62
06:45			46	281 101 299	147 580	18:45			40 251	15 97	55 348
07:00			47	137	184	19:00			30	17	47
07:15			47	138	185	19:15			34	16	50
07:30			58	189	247	19:30			18	26	44
07:45			42	194 156 620	198 814	19:45			19 101	16 75	35 176
08:00			50	78	128	20:00			16	23	39
08:15			35	83	118	20:15			25	18	43
08:30			53	68	121	20:30			20	16	36
08:45			64	202 55 284	119 486	20:45			18 79	19 76	37 155
09:00			55	63	118	21:00			14	11	25
09:15			62	65	127	21:15			23	15	38
09:30			68	83	151	21:30			15	12	27
09:45			64	249 74 285	138 534	21:45			15 67	17 55	32 122
10:00			56	71	127	22:00			21	19	40
10:15			68	69	137	22:15			23	16	39
10:30			74	76	150	22:30			64	13	77
10:45			76	274 53 269	129 543	22:45			27 135	9 57	36 192
11:00			78	65	143	23:00			11	1	12
11:15			91	81	172	23:15			10	9	19
11:30			84	70	154	23:30			10	6	16
11:45			73	326 74 290	147 616	23:45			11 42	6 22	17 64
TOTALS				1900 2348	4248	TOTALS				3429 1828	5257
SPLIT %				44.7% 55.3%	44.7%	SPLIT %				65.2% 34.8%	55.3%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	5,329	4,176	9,505

AM Peak Hour			05:30		07:00	07:00	PM Peak Hour		16:30	14:15	16:30
AM Pk Volume			341		620	814	PM Pk Volume		724	351	903
Pk Hr Factor			0.879		0.820	0.824	Pk Hr Factor		0.958	0.798	0.982
7 - 9 Volume			396		904	1300	4 - 6 Volume		1334	322	1656
7 - 9 Peak Hour			08:00		07:00	07:00	4 - 6 Peak Hour		16:30	16:15	16:30
7 - 9 Pk Volume			202		620	814	4 - 6 Pk Volume		724	184	903
Pk Hr Factor			0.789		0.820	0.824	Pk Hr Factor		0.958	0.885	0.982

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Prepared by NDS/ATD

VOLUME

Sampson St between 28th St & Kearney Ave

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_007

DAILY TOTALS	NB	SB	EB	WB	Total
	1,628	1,549	0	0	3,177

AM Period	NB		SB		EB		WB		TOTAL
00:00	2		2						4
00:15	5		4						9
00:30	5		0						5
00:45	2	14	3	9					5 23
01:00	0		0						0
01:15	1		1						2
01:30	1		0						1
01:45	1	3	0	1					1 4
02:00	2		0						2
02:15	0		1						1
02:30	4		0						4
02:45	2	8	2	3					4 11
03:00	1		0						1
03:15	1		3						4
03:30	0		4						4
03:45	0	2	3	10					3 12
04:00	1		3						4
04:15	0		6						6
04:30	1		8						9
04:45	1	3	18	35					19 38
05:00	1		14						15
05:15	2		30						32
05:30	2		44						46
05:45	4	9	42	130					46 139
06:00	7		13						20
06:15	7		23						30
06:30	13		31						44
06:45	9	36	21	88					30 124
07:00	7		15						22
07:15	9		24						33
07:30	26		40						66
07:45	30	72	43	122					73 194
08:00	25		43						68
08:15	19		37						56
08:30	14		18						32
08:45	19	77	19	117					38 194
09:00	15		20						35
09:15	10		14						24
09:30	18		17						35
09:45	15	58	21	72					36 130
10:00	16		19						35
10:15	13		15						28
10:30	13		18						31
10:45	22	64	18	70					40 134
11:00	17		18						35
11:15	18		12						30
11:30	23		15						38
11:45	15	73	18	63					33 136
TOTALS		419		720					1139
SPLIT %		36.8%		63.2%					35.9%

PM Period	NB		SB		EB		WB		TOTAL
12:00	23		14						37
12:15	22		21						43
12:30	32		25						57
12:45	20	97	21	81					41 178
13:00	23		21						44
13:15	17		18						35
13:30	37		23						60
13:45	34	111	28	90					62 201
14:00	29		27						56
14:15	43		25						68
14:30	58		39						97
14:45	98	228	28	119					126 347
15:00	72		27						99
15:15	33		20						53
15:30	50		29						79
15:45	41	196	23	99					64 295
16:00	45		29						74
16:15	26		27						53
16:30	46		28						74
16:45	51	168	26	110					77 278
17:00	56		32						88
17:15	27		30						57
17:30	32		16						48
17:45	22	137	33	111					55 248
18:00	21		15						36
18:15	20		14						34
18:30	29		16						45
18:45	10	80	20	65					30 145
19:00	13		11						24
19:15	11		8						19
19:30	15		11						26
19:45	12	51	8	38					20 89
20:00	19		15						34
20:15	19		14						33
20:30	9		12						21
20:45	10	57	10	51					20 108
21:00	11		8						19
21:15	11		10						21
21:30	9		6						15
21:45	5	36	6	30					11 66
22:00	5		11						16
22:15	6		2						8
22:30	11		8						19
22:45	7	29	1	22					8 51
23:00	3		6						9
23:15	4		4						8
23:30	3		1						4
23:45	9	19	2	13					11 32
TOTALS		1209		829					2038
SPLIT %		59.3%		40.7%					64.1%

DAILY TOTALS	NB	SB	EB	WB	Total
	1,628	1,549	0	0	3,177

AM Peak Hour	07:30		07:30						07:30
AM Pk Volume	100		163						263
Pk Hr Factor	0.833		0.948						0.901
7 - 9 Volume	149		239						388
7 - 9 Peak Hour	07:30		07:30						07:30
7 - 9 Pk Volume	100		163						263
Pk Hr Factor	0.833		0.948						0.901

PM Peak Hour	14:15		13:45						14:15
PM Pk Volume	271		119						390
Pk Hr Factor	0.691		0.763						0.774
4 - 6 Volume	305		221						526
4 - 6 Peak Hour	16:30		16:30						16:30
4 - 6 Pk Volume	180		116						296
Pk Hr Factor	0.804		0.906						0.841

Prepared by NDS/ATD

VOLUME

Sampson St between Kearney Ave & Harbor Dr

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_008

DAILY TOTALS	NB	SB	EB	WB	Tot
	1,159	1,452	0	0	2,611

AM Period	NB		SB		EB		WB		TOTAL
00:00	3		0						3
00:15	2		1						3
00:30	4		3						7
00:45	2	11	0	4					2 15
01:00	1		0						1
01:15	0		0						0
01:30	0		1						1
01:45	0	1	1	2					1 3
02:00	0		1						1
02:15	0		1						1
02:30	0		0						0
02:45	1	1	1	3					2 4
03:00	0		1						1
03:15	1		2						3
03:30	1		2						3
03:45	0	2	4	9					4 11
04:00	0		8						8
04:15	0		17						17
04:30	2		20						22
04:45	5	7	34	79					39 86
05:00	2		26						28
05:15	12		45						57
05:30	10		66						76
05:45	22	46	54	191					76 237
06:00	14		24						38
06:15	14		32						46
06:30	14		35						49
06:45	7	49	20	111					27 160
07:00	10		17						27
07:15	16		20						36
07:30	11		17						28
07:45	11	48	14	68					25 116
08:00	10		25						35
08:15	10		17						27
08:30	9		12						21
08:45	17	46	20	74					37 120
09:00	12		19						31
09:15	13		21						34
09:30	14		14						28
09:45	17	56	18	72					35 128
10:00	20		16						36
10:15	13		12						25
10:30	18		15						33
10:45	21	72	19	62					40 134
11:00	18		12						30
11:15	8		15						23
11:30	13		15						28
11:45	10	49	15	57					25 106
TOTALS		388		732					1120
SPLIT %		34.6%		65.4%					42.9%

PM Period	NB		SB		EB		WB		TOT
12:00	20		20						40
12:15	13		38						51
12:30	11		22						33
12:45	12	56	49	129					61 185
13:00	19		34						53
13:15	19		19						38
13:30	18		18						36
13:45	16	72	46	117					62 189
14:00	40		53						93
14:15	38		31						69
14:30	79		49						128
14:45	96	253	52	185					148 438
15:00	30		22						52
15:15	35		36						71
15:30	30		16						46
15:45	21	116	17	91					38 207
16:00	14		11						25
16:15	26		13						39
16:30	18		16						34
16:45	26	84	12	52					38 136
17:00	21		7						28
17:15	14		15						29
17:30	14		11						25
17:45	7	56	7	40					14 96
18:00	14		7						21
18:15	11		5						16
18:30	9		6						15
18:45	11	45	7	25					18 70
19:00	3		2						5
19:15	6		6						12
19:30	5		3						8
19:45	1	15	5	16					6 31
20:00	10		8						18
20:15	2		6						8
20:30	1		4						5
20:45	3	16	2	20					5 36
21:00	6		3						9
21:15	2		0						2
21:30	5		9						14
21:45	5	18	1	13					6 31
22:00	3		8						11
22:15	6		9						15
22:30	20		5						25
22:45	2	31	2	24					4 55
23:00	0		1						1
23:15	2		1						3
23:30	7		5						12
23:45	0	9	1	8					1 17
TOTALS		771		720					1491
SPLIT %		51.7%		48.3%					57.1%

DAILY TOTALS	NB	SB	EB	WB	Tot
	1,159	1,452	0	0	2,6

AM Peak Hour	10:00		05:00						05:15
AM Pk Volume	72		191						247
Pk Hr Factor	0.857		0.723						0.813
7 - 9 Volume	94		142						236
7 - 9 Peak Hour	07:00		07:15						07:15
7 - 9 Pk Volume	48		76						124
Pk Hr Factor	0.750		0.760						0.861

PM Peak Hour	14:00		14:00						14:00
PM Pk Volume	253		185						438
Pk Hr Factor	0.659		0.873						0.740
4 - 6 Volume	140		92						232
4 - 6 Peak Hour	16:15		16:00						16:15
4 - 6 Pk Volume	91		57						139
Pk Hr Factor	0.875		0.813						0.891

Prepared by NDS/ATD

VOLUME

28th St between SR-94 EB Ramps & Sampson St

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_009

DAILY TOTALS	NB	SB	EB	WB	Total
	3,551	3,451	0	0	7,002

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	6	13			19	12:00	63	50			113
00:15	7	4			11	12:15	61	43			104
00:30	3	3			6	12:30	56	64			120
00:45	6 22	6 26			12 48	12:45	55 235	61 218			116 453
01:00	4	3			7	13:00	60	51			111
01:15	3	4			7	13:15	37	43			80
01:30	2	5			7	13:30	57	57			114
01:45	0 9	5 17			5 26	13:45	49 203	54 205			103 408
02:00	0	3			3	14:00	67	64			131
02:15	4	3			7	14:15	61	55			116
02:30	3	1			4	14:30	73	68			141
02:45	1 8	3 10			4 18	14:45	109 310	68 255			177 565
03:00	7	3			10	15:00	110	78			188
03:15	1	4			5	15:15	78	61			139
03:30	3	3			6	15:30	66	65			131
03:45	1 12	2 12			3 24	15:45	63 317	80 284			143 601
04:00	3	4			7	16:00	57	72			129
04:15	3	9			12	16:15	80	78			158
04:30	5	11			16	16:30	60	104			164
04:45	3 14	14 38			17 52	16:45	91 288	69 323			160 611
05:00	7	19			26	17:00	80	53			133
05:15	17	34			51	17:15	65	61			126
05:30	26	36			62	17:30	58	63			121
05:45	25 75	31 120			56 195	17:45	59 262	58 235			117 497
06:00	17	33			50	18:00	42	63			105
06:15	31	31			62	18:15	43	57			100
06:30	45	30			75	18:30	50	77			127
06:45	44 137	31 125			75 262	18:45	33 168	61 258			94 426
07:00	40	32			72	19:00	41	44			85
07:15	42	30			72	19:15	40	36			76
07:30	55	42			97	19:30	34	37			71
07:45	73 210	51 155			124 365	19:45	23 138	28 145			51 283
08:00	64	48			112	20:00	31	35			66
08:15	47	54			101	20:15	39	27			66
08:30	41	36			77	20:30	35	32			67
08:45	43 195	44 182			87 377	20:45	43 148	25 119			68 267
09:00	28	36			64	21:00	33	27			60
09:15	44	36			80	21:15	38	27			65
09:30	34	40			74	21:30	36	17			53
09:45	43 149	39 151			82 300	21:45	37 144	22 93			59 237
10:00	41	36			77	22:00	25	19			44
10:15	41	36			72	22:15	20	19			39
10:30	47	46			93	22:30	20	17			37
10:45	44 173	49 167			93 340	22:45	15 80	16 71			31 151
11:00	43	44			87	23:00	13	10			23
11:15	58	42			100	23:15	11	9			20
11:30	58	62			120	23:30	14	7			21
11:45	47 206	53 201			100 407	23:45	10 48	15 41			25 89
TOTALS	1210	1204			2414	TOTALS	2341	2247			4588
SPLIT %	50.1%	49.9%			34.5%	SPLIT %	51.0%	49.0%			65.5%

DAILY TOTALS	NB	SB	EB	WB	Total
	3,551	3,451	0	0	7,002

AM Peak Hour	07:30	11:45			11:30	PM Peak Hour	14:30	15:45		14:30
AM Pk Volume	239	210			437	PM Pk Volume	370	334		645
Pk Hr Factor	0.818	0.820			0.910	Pk Hr Factor	0.841	0.803		0.858
7 - 9 Volume	405	337			742	4 - 6 Volume	550	558		1108
7 - 9 Peak Hour	07:30	07:30			07:30	4 - 6 Peak Hour	16:15	16:00		16:15
7 - 9 Pk Volume	239	195			434	4 - 6 Pk Volume	311	323		615
Pk Hr Factor	0.818	0.903			0.875	Pk Hr Factor	0.854	0.776		0.938

Prepared by NDS/ATD

VOLUME

28th St between National Ave & Boston Ave

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_010

DAILY TOTALS	NB	SB	EB	WB	Total
	7,923	5,969	0	0	13,8

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	9	8			17	12:00	153	84			237
00:15	6	14			20	12:15	179	91			270
00:30	12	6			18	12:30	151	103			254
00:45	11 38	10 38			21 76	12:45	165 648	124 402			289 1050
01:00	7	9			16	13:00	157	110			267
01:15	7	9			16	13:15	156	90			246
01:30	11	3			14	13:30	178	91			269
01:45	5 30	3 24			8 54	13:45	153 644	105 396			258 1040
02:00	10	5			15	14:00	164	112			276
02:15	2	10			12	14:15	132	104			236
02:30	6	11			17	14:30	129	111			240
02:45	4 22	13 39			17 61	14:45	164 589	111 438			275 1027
03:00	5	10			15	15:00	169	105			274
03:15	12	11			23	15:15	170	112			282
03:30	6	21			27	15:30	196	102			298
03:45	7 30	13 55			20 85	15:45	161 696	92 411			253 1107
04:00	11	19			30	16:00	147	79			226
04:15	10	30			40	16:15	167	82			249
04:30	13	40			53	16:30	173	109			282
04:45	28 62	37 126			65 188	16:45	139 626	112 382			251 1008
05:00	32	52			84	17:00	138	123			261
05:15	46	63			109	17:15	115	91			206
05:30	68	102			170	17:30	125	91			216
05:45	55 201	87 304			142 505	17:45	112 490	71 376			183 866
06:00	50	88			138	18:00	93	87			180
06:15	68	68			136	18:15	105	88			193
06:30	84	55			139	18:30	79	76			155
06:45	94 296	56 267			150 563	18:45	92 369	69 320			161 689
07:00	114	46			160	19:00	75	63			138
07:15	103	54			157	19:15	73	49			122
07:30	114	48			162	19:30	55	53			108
07:45	119 450	49 197			168 647	19:45	55 258	53 218			108 476
08:00	94	84			178	20:00	55	64			119
08:15	85	68			153	20:15	57	47			104
08:30	107	70			177	20:30	54	48			102
08:45	82 368	76 298			158 666	20:45	41 207	49 208			90 415
09:00	101	70			171	21:00	33	57			90
09:15	79	81			160	21:15	39	59			98
09:30	121	86			207	21:30	35	38			73
09:45	99 400	98 335			197 735	21:45	40 147	33 187			73 334
10:00	114	92			206	22:00	31	31			62
10:15	125	92			217	22:15	26	44			70
10:30	120	101			221	22:30	34	30			64
10:45	154 513	78 363			232 876	22:45	21 112	24 129			45 241
11:00	187	97			284	23:00	27	22			49
11:15	146	90			236	23:15	14	19			33
11:30	168	105			273	23:30	15	13			28
11:45	153 654	88 380			241 1034	23:45	17 73	22 76			39 149
TOTALS	3064	2426			5490	TOTALS	4859	3543			8402
SPLIT %	55.8%	44.2%			39.5%	SPLIT %	57.8%	42.2%			60.5%

DAILY TOTALS	NB	SB	EB	WB	Total
	7,923	5,969	0	0	13,892

AM Peak Hour	10:45	09:45			11:00	PM Peak Hour	14:45	14:30		14:45
AM Pk Volume	655	383			1034	PM Pk Volume	699	439		1129
Pk Hr Factor	0.876	0.948			0.910	Pk Hr Factor	0.892	0.980		0.947
7 - 9 Volume	818	495			1313	4 - 6 Volume	1116	758		1874
7 - 9 Peak Hour	07:00	08:00			07:45	4 - 6 Peak Hour	16:00	16:30		16:15
7 - 9 Pk Volume	450	298			676	4 - 6 Pk Volume	626	435		1043
Pk Hr Factor	0.945	0.887			0.949	Pk Hr Factor	0.905	0.884		0.925

SR-94 & Sampson St
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Prepared by NDS/ATD

VOLUME

28th St between Harbor Dr & Main St

Day: Thursday
Date: 3/3/2011

City: San Diego
Project #: CA11_4064_005

DAILY TOTALS	NB	SB	EB	WB	Total
	7,611	7,620	0	0	15,231

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOTAL
00:00	20	11			31	12:00	171	130			301
00:15	8	12			20	12:15	152	164			316
00:30	53	5			58	12:30	136	152			288
00:45	22 103	10 38			32 141	12:45	183 642	150 596			333 1238
01:00	2	11			13	13:00	160	115			275
01:15	11	3			14	13:15	163	139			302
01:30	29	6			35	13:30	165	126			291
01:45	9 51	12 32			21 83	13:45	160 648	114 494			274 1142
02:00	16	1			17	14:00	141	106			247
02:15	6	4			10	14:15	131	97			228
02:30	11	7			18	14:30	163	99			262
02:45	15 48	7 19			22 67	14:45	174 609	108 410			282 1019
03:00	5	6			11	15:00	175	89			264
03:15	8	14			22	15:15	179	110			289
03:30	11	22			33	15:30	157	120			277
03:45	5 29	32 74			37 103	15:45	143 654	103 422			246 1076
04:00	12	31			43	16:00	181	80			261
04:15	16	49			65	16:15	132	95			227
04:30	9	79			88	16:30	160	89			249
04:45	11 48	96 255			107 303	16:45	121 594	78 342			199 936
05:00	19	83			102	17:00	134	59			193
05:15	26	150			176	17:15	130	92			222
05:30	52	242			294	17:30	73	79			152
05:45	61 158	278 753			339 911	17:45	87 424	82 312			169 736
06:00	58	194			252	18:00	87	77			164
06:15	58	209			267	18:15	91	52			143
06:30	53	172			225	18:30	71	38			109
06:45	55 224	149 724			204 948	18:45	84 333	51 218			135 551
07:00	92	169			261	19:00	67	38			105
07:15	64	142			206	19:15	52	35			87
07:30	81	136			217	19:30	69	43			112
07:45	56 293	86 533			142 826	19:45	42 230	45 161			87 391
08:00	50	97			147	20:00	58	25			83
08:15	65	107			172	20:15	35	24			59
08:30	79	102			181	20:30	41	33			74
08:45	76 270	97 403			173 673	20:45	32 166	22 104			54 270
09:00	98	95			193	21:00	44	27			71
09:15	122	100			222	21:15	19	18			37
09:30	116	94			210	21:30	40	21			61
09:45	109 445	124 413			233 858	21:45	27 130	30 96			57 226
10:00	108	116			224	22:00	22	23			45
10:15	137	114			251	22:15	22	18			40
10:30	143	132			275	22:30	38	13			51
10:45	158 546	126 488			284 1034	22:45	25 107	13 67			38 174
11:00	209	139			348	23:00	22	10			32
11:15	159	144			303	23:15	14	12			26
11:30	206	167			373	23:30	56	16			72
11:45	175 749	168 618			343 1367	23:45	18 110	10 48			28 158
TOTALS	2964	4350			7314	TOTALS	4647	3270			7917
SPLIT %	40.5%	59.5%			48.0%	SPLIT %	58.7%	41.3%			52.0%

DAILY TOTALS	NB	SB	EB	WB	Total
	7,611	7,620	0	0	15,231

AM Peak Hour	11:00	05:30		PM Peak Hour	14:30	12:00		12:00
AM Pk Volume	749	923		PM Pk Volume	691	596		1238
Pk Hr Factor	0.896	0.830		Pk Hr Factor	0.965	0.909		0.929
7 - 9 Volume	563	936		4 - 6 Volume	1018	654		1672
7 - 9 Peak Hour	07:00	07:00		4 - 6 Peak Hour	16:00	16:00		16:00
7 - 9 Pk Volume	293	533		4 - 6 Pk Volume	594	342		936
Pk Hr Factor	0.796	0.788		Pk Hr Factor	0.820	0.900		0.897

Prepared by NDS/ATD

VOLUME

National Ave between 28th St & I-5 NB Ramps

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_012

DAILY TOTALS	NB	SB	EB	WB	Tot
	0	0	5,221	9,380	14,60

AM Period	NB	SB	EB	WB	TOTAL	PM Period	NB	SB	EB	WB	TOT
00:00			14	16	30	12:00			90	112	202
00:15			11	11	22	12:15			110	147	257
00:30			14	8	22	12:30			97	119	216
00:45			7 46	8 43	15 89	12:45			97 394	172 550	269 944
01:00			6	8	14	13:00			86	145	231
01:15			2	3	5	13:15			94	154	248
01:30			7	11	18	13:30			103	157	260
01:45			7 22	9 31	16 53	13:45			85 368	129 585	214 953
02:00			9	10	19	14:00			87	147	234
02:15			2	8	10	14:15			106	129	235
02:30			5	9	14	14:30			158	140	298
02:45			5 21	16 43	21 64	14:45			161 512	129 545	290 1057
03:00			2	19	21	15:00			145	130	275
03:15			0	25	25	15:15			124	149	273
03:30			3	35	38	15:30			141	157	298
03:45			3 8	42 121	45 129	15:45			113 523	152 588	265 1111
04:00			7	37	44	16:00			116	136	252
04:15			1	66	67	16:15			115	143	258
04:30			9	114	123	16:30			124	151	275
04:45			8 25	137 354	145 379	16:45			116 471	160 590	276 1061
05:00			12	155	167	17:00			119	137	256
05:15			14	212	226	17:15			129	135	264
05:30			31	256	287	17:30			94	132	226
05:45			24 81	201 824	225 905	17:45			77 419	125 529	202 948
06:00			22	160	182	18:00			62	98	160
06:15			28	155	183	18:15			59	95	154
06:30			22	179	201	18:30			63	72	135
06:45			29 101	188 682	217 783	18:45			75 259	78 343	153 602
07:00			37	201	238	19:00			73	69	142
07:15			50	165	215	19:15			42	53	95
07:30			47	162	209	19:30			35	61	96
07:45			57 191	171 699	228 890	19:45			39 189	53 236	92 425
08:00			46	157	203	20:00			54	51	105
08:15			54	173	227	20:15			35	53	88
08:30			58	163	221	20:30			43	45	88
08:45			41 199	150 643	191 842	20:45			33 165	41 190	74 355
09:00			48	115	163	21:00			53	42	95
09:15			52	127	179	21:15			52	46	98
09:30			66	130	196	21:30			32	47	79
09:45			64 230	119 491	183 721	21:45			32 169	28 163	60 332
10:00			67	107	174	22:00			31	30	61
10:15			63	118	181	22:15			34	31	65
10:30			75	127	202	22:30			40	37	77
10:45			82 287	100 452	182 739	22:45			20 125	20 118	40 243
11:00			76	108	184	23:00			22	19	41
11:15			72	130	202	23:15			27	23	50
11:30			86	118	204	23:30			24	15	39
11:45			93 327	131 487	224 814	23:45			16 89	16 73	32 162
TOTALS			1538	4870	6408	TOTALS			3683	4510	8193
SPLIT %			24.0%	76.0%	43.9%	SPLIT %			45.0%	55.0%	56.1%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	5,221	9,380	14,60

AM Peak Hour	11:45	05:15	05:15	PM Peak Hour	14:30	12:45		14:30
AM Pk Volume	390	829	920	PM Pk Volume	588	628		1136
Pk Hr Factor	0.886	0.810	0.801	Pk Hr Factor	0.913	0.913		0.953
7 - 9 Volume	390	1342	1732	4 - 6 Volume	890	1119		2009
7 - 9 Peak Hour	07:45	07:00	07:00	4 - 6 Peak Hour	16:30	16:15		16:30
7 - 9 Pk Volume	215	699	890	4 - 6 Pk Volume	488	591		1071
Pk Hr Factor	0.927	0.869	0.935	Pk Hr Factor	0.946	0.923		0.970

Prepared by NDS/ATD

VOLUME

Boston Ave between 28th St & I-5 SB On-Ramp-29th St

Day: Wednesday
Date: 12/18/2013

City: San Diego
Project #: CA13_4405_013

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	7,281	815	8,096

AM Period	NB	SB	EB		WB		TOTAL
00:00			34		1		35
00:15			26		0		26
00:30			26		2		28
00:45			26	112	1	4	27 116
01:00			8		0		8
01:15			10		3		13
01:30			16		2		18
01:45			10	44	0	5	10 49
02:00			21		3		24
02:15			9		0		9
02:30			11		2		13
02:45			10	51	1	6	11 57
03:00			9		1		10
03:15			15		0		15
03:30			12		1		13
03:45			17	53	3	5	20 58
04:00			17		3		20
04:15			3		0		3
04:30			16		2		18
04:45			23	59	6	11	29 70
05:00			26		5		31
05:15			35		10		45
05:30			58		12		70
05:45			42	161	11	38	53 199
06:00			36		9		45
06:15			46		10		56
06:30			64		23		87
06:45			65	211	21	63	86 274
07:00			53		15		68
07:15			52		10		62
07:30			47		7		54
07:45			41	193	22	54	63 247
08:00			56		10		66
08:15			61		19		80
08:30			49		14		63
08:45			84	250	7	50	91 300
09:00			70		7		77
09:15			78		8		86
09:30			96		8		104
09:45			96	340	14	37	110 377
10:00			89		12		101
10:15			75		11		86
10:30			109		5		114
10:45			93	366	14	42	107 408
11:00			102		20		122
11:15			104		12		116
11:30			122		9		131
11:45			108	436	23	64	131 500
TOTALS				2276		379	2655
SPLIT %				85.7%		14.3%	32.8%

PM Period	NB	SB	EB		WB		TOTAL
12:00			111		21		132
12:15			111		12		123
12:30			134		13		147
12:45			161	517	15	61	176 578
13:00			137		17		154
13:15			129		9		138
13:30			147		15		162
13:45			163	576	11	52	174 628
14:00			135		10		145
14:15			150		18		168
14:30			222		12		234
14:45			211	718	15	55	226 773
15:00			207		10		217
15:15			210		15		225
15:30			206		20		226
15:45			166	789	14	59	180 848
16:00			172		15		187
16:15			137		19		156
16:30			152		8		160
16:45			123	584	13	55	136 639
17:00			142		19		161
17:15			104		9		113
17:30			115		13		128
17:45			83	444	5	46	88 490
18:00			90		7		97
18:15			86		6		92
18:30			86		6		92
18:45			71	333	8	27	79 360
19:00			73		9		82
19:15			86		11		97
19:30			43		5		48
19:45			61	263	5	30	66 293
20:00			59		3		62
20:15			41		1		42
20:30			63		8		71
20:45			53	216	4	16	57 232
21:00			69		9		78
21:15			49		4		53
21:30			43		4		47
21:45			38	199	2	19	40 218
22:00			57		4		61
22:15			61		3		64
22:30			90		0		90
22:45			53	261	1	8	54 269
23:00			27		3		30
23:15			25		1		26
23:30			28		1		29
23:45			25	105	3	8	28 113
TOTALS				5005		436	5441
SPLIT %				92.0%		8.0%	67.2%

DAILY TOTALS	NB	SB	EB	WB	Total
	0	0	7,281	815	8,096

AM Peak Hour	11:45		06:15		11:45	
AM Pk Volume	464		69		533	
Pk Hr Factor	0.866		0.750		0.906	
7 - 9 Volume	443		104		547	
7 - 9 Peak Hour	08:00		07:45		08:00	
7 - 9 Pk Volume	250		65		300	
Pk Hr Factor	0.744		0.739		0.824	

PM Peak Hour	14:30		15:30		14:30	
PM Pk Volume	850		68		902	
Pk Hr Factor	0.957		0.850		0.964	
4 - 6 Volume	1028		101		1129	
4 - 6 Peak Hour	16:00		16:15		16:00	
4 - 6 Pk Volume	584		59		639	
Pk Hr Factor	0.849		0.776		0.854	

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APPENDIX C

CITY OF SAN DIEGO ROADWAY LOS STANDARDS

TABLE 2
Roadway Classifications, Levels of Service (LOS) and Average Daily Traffic (ADT)

STREET CLASSIFICATION	LANES	CROSS SECTIONS	LEVEL OF SERVICE A	B	C	D	E
Freeway	8 lanes		60,000	84,000	120,000	140,000	150,000
Freeway	6 lanes		45,000	63,000	90,000	110,000	120,000
Freeway	4 lanes		30,000	42,000	60,000	70,000	80,000
Expressway	6 lanes	102/122	30,000	42,000	60,000	70,000	80,000
Primary Arterial	6 lanes	102/122	25,000	35,000	50,000	55,000	60,000
Major Arterial	6 lanes	102/122	20,000	28,000	40,000	45,000	50,000
Major Arterial	4 lanes	78/98	15,000	21,000	30,000	35,000	40,000
Collector	4 lanes	72/92	10,000	14,000	20,000	25,000	30,000
Collector (no center lane) continuous left-turn lane)	4 lanes 2 lanes	64/84 50/70	5,000	7,000	10,000	13,000	15,000
Collector (no fronting property)	2 lanes	40/60	4,000	5,500	7,500	9,000	10,000
Collector (commercial-industrial fronting)	2 lanes	50/70	2,500	3,500	5,000	6,500	8,000
Collector (multifamily)	2 lanes	40/60	2,500	3,500	5,000	6,500	8,000
Sub-Collector (single-family)	2 lanes	36/56	—	—	2,200	—	—

LEGEND:

XXX/XXX = Curb to curb width (feet)/right-of-way width (feet): based on the City of San Diego Street Design. Manual

XX/XXX= Approximate recommended ADT based on the City of San Diego Street Design Manual.

NOTES:

1. The volumes and the average daily level of service listed above are only intended as a general planning guideline.

2. Levels of service are not applied to residential streets since their primary purpose is to serve abutting lots, not carry through traffic. Levels of service normally apply to roads carrying through traffic between major trip generators and attractors.

APPENDIX D

EXISTING HCM WORKSHEETS

Intersection	
Intersection Delay, s/veh	11.1
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	103	9	0	48	115	0	0	14	0	36
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	112	10	0	52	125	0	0	15	0	39
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	9.5	9.8	8.3
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	28%	0%	100%	0%	29%
Vol Thru, %	0%	92%	0%	100%	65%
Vol Right, %	72%	8%	0%	0%	5%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	50	112	48	115	346
LT Vol	0	103	0	115	226
Through Vol	36	9	0	0	18
RT Vol	14	0	48	0	102
Lane Flow Rate	54	122	52	125	376
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.072	0.178	0.09	0.197	0.499
Departure Headway (Hd)	4.799	5.258	6.186	5.681	4.78
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	736	674	574	625	748
Service Time	2.894	3.354	3.978	3.472	2.841
HCM Lane V/C Ratio	0.073	0.181	0.091	0.2	0.503
HCM Control Delay	8.3	9.5	9.6	9.9	12.6
HCM Lane LOS	A	A	A	A	B
HCM 95th-tile Q	0.2	0.6	0.3	0.7	2.8

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Intersection				
Intersection Delay, s/veh				
Intersection LOS				

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	102	226	18
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	111	246	20
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	12.6
HCM LOS	B

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	593	126	72	134	105	0	0	215	21
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				416	423	76	141	111	0	0	226	22
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				538	466	84	409	1001	0	0	710	68
Arrive On Green				0.30	0.30	0.30	0.23	0.53	0.00	0.00	0.21	0.21
Sat Flow, veh/h				1810	1568	282	1810	1900	0	0	3422	321
Grp Volume(v), veh/h				416	0	499	141	111	0	0	122	126
Grp Sat Flow(s), veh/h/ln				1810	0	1850	1810	1900	0	0	1805	1843
Q Serve(g_s), s				16.7	0.0	20.7	5.2	2.3	0.0	0.0	4.5	4.6
Cycle Q Clear(g_c), s				16.7	0.0	20.7	5.2	2.3	0.0	0.0	4.5	4.6
Prop In Lane				1.00		0.15	1.00		0.00	0.00		0.17
Lane Grp Cap(c), veh/h				538	0	550	409	1001	0	0	385	393
V/C Ratio(X)				0.77	0.00	0.91	0.35	0.11	0.00	0.00	0.32	0.32
Avail Cap(c_a), veh/h				999	0	1021	409	1001	0	0	385	393
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				25.5	0.0	26.9	25.9	9.5	0.0	0.0	26.4	26.5
Incr Delay (d2), s/veh				2.4	0.0	6.0	2.3	0.2	0.0	0.0	2.1	2.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				8.7	0.0	11.5	2.8	1.3	0.0	0.0	2.5	2.6
LnGrp Delay(d),s/veh				27.9	0.0	33.0	28.2	9.7	0.0	0.0	28.6	28.6
LnGrp LOS				C		C	C	A			C	C
Approach Vol, veh/h					915			252			248	
Approach Delay, s/veh					30.7			20.1			28.6	
Approach LOS					C			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		69.3			25.0	44.3		30.7
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		45.0			21.0	20.0		47.0
Max Q Clear Time (g_c+I1), s		5.3			8.2	7.6		23.7
Green Ext Time (p_c), s		2.2			0.3	1.6		3.0

Intersection Summary	
HCM 2010 Ctrl Delay	28.4
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	70	110	63	18	25	22	21	181	144	82	581	98
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	74	117	67	19	27	23	22	193	153	87	618	104
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	261	152	87	136	254	216	47	1706	763	214	1746	293
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.03	0.47	0.47	0.12	0.56	0.56
Sat Flow, veh/h	1376	1135	650	1219	1900	1615	1810	3610	1615	1810	3094	520
Grp Volume(v), veh/h	74	0	184	19	27	23	22	193	153	87	360	362
Grp Sat Flow(s),veh/h/ln	1376	0	1785	1219	1900	1615	1810	1805	1615	1810	1805	1808
Q Serve(g_s), s	3.8	0.0	7.6	1.2	1.0	1.0	0.9	2.3	4.2	3.4	8.3	8.3
Cycle Q Clear(g_c), s	4.8	0.0	7.6	8.7	1.0	1.0	0.9	2.3	4.2	3.4	8.3	8.3
Prop In Lane	1.00		0.36	1.00		1.00	1.00		1.00	1.00		0.29
Lane Grp Cap(c), veh/h	261	0	239	136	254	216	47	1706	763	214	1019	1021
V/C Ratio(X)	0.28	0.00	0.77	0.14	0.11	0.11	0.46	0.11	0.20	0.41	0.35	0.35
Avail Cap(c_a), veh/h	565	0	633	405	673	572	214	1706	763	380	1019	1021
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.92	0.92	0.92	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.1	0.0	31.9	36.1	29.0	29.0	36.6	11.2	11.7	31.1	9.0	9.0
Incr Delay (d2), s/veh	0.6	0.0	5.2	0.5	0.2	0.2	6.3	0.1	0.5	1.2	1.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	4.1	0.4	0.5	0.4	0.5	1.2	2.0	1.8	4.4	4.4
LnGrp Delay(d),s/veh	31.7	0.0	37.1	36.6	29.2	29.2	42.9	11.3	12.3	32.4	10.0	10.0
LnGrp LOS	C		D	D	C	C	D	B	B	C	A	B
Approach Vol, veh/h		258			69			368			809	
Approach Delay, s/veh		35.5			31.2			13.6			12.4	
Approach LOS		D			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	39.8	43.0		17.2	32.8	50.0		17.2
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	19.0	39.0		30.0	12.0	46.0		30.0
Max Q Clear Time (g_c+I1), s	6.4	7.2		10.6	3.9	11.3		11.7
Green Ext Time (p_c), s	0.2	1.8		1.5	0.1	5.2		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	17.5
HCM 2010 LOS	B

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	98	146	29	33	534	50	12	46	18	36	97	295
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	109	162	32	37	593	56	13	51	20	40	108	328
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	194	1347	261	40	1205	114	333	401	157	165	422	498
Arrive On Green	0.11	0.45	0.45	0.04	0.72	0.72	0.31	0.31	0.31	0.51	0.51	0.51
Sat Flow, veh/h	1810	3018	584	1810	3335	314	968	1300	510	377	1369	1615
Grp Volume(v), veh/h	109	96	98	37	320	329	13	0	71	148	0	328
Grp Sat Flow(s),veh/h/ln	1810	1805	1797	1810	1805	1845	968	0	1810	1746	0	1615
Q Serve(g_s), s	5.4	2.9	3.0	1.9	7.2	7.2	0.9	0.0	2.7	0.0	0.0	14.0
Cycle Q Clear(g_c), s	5.4	2.9	3.0	1.9	7.2	7.2	5.0	0.0	2.7	4.1	0.0	14.0
Prop In Lane	1.00		0.32	1.00		0.17	1.00		0.28	0.27		1.00
Lane Grp Cap(c), veh/h	194	806	802	40	652	667	333	0	558	587	0	498
V/C Ratio(X)	0.56	0.12	0.12	0.92	0.49	0.49	0.04	0.00	0.13	0.25	0.00	0.66
Avail Cap(c_a), veh/h	308	806	802	154	652	667	333	0	558	587	0	498
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.67	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	0.90	0.90	0.90	1.00	0.00	1.00	0.97	0.00	0.97
Uniform Delay (d), s/veh	39.9	15.2	15.3	44.9	9.3	9.3	25.8	0.0	23.4	16.8	0.0	19.2
Incr Delay (d2), s/veh	2.5	0.3	0.3	44.9	2.4	2.3	0.2	0.0	0.5	1.0	0.0	6.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	1.5	1.6	1.4	3.8	3.9	0.3	0.0	1.4	2.3	0.0	7.0
LnGrp Delay(d),s/veh	42.4	15.5	15.6	89.8	11.7	11.7	26.0	0.0	23.9	17.8	0.0	25.7
LnGrp LOS	D	B	B	F	B	B	C		C	B		C
Approach Vol, veh/h		303			686			84			476	
Approach Delay, s/veh		25.2			15.9			24.2			23.2	
Approach LOS		C			B			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.0	49.0		36.0	23.0	41.0		36.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	11.0	45.0		32.0	19.0	37.0		32.0
Max Q Clear Time (g_c+I1), s	4.9	6.0		17.0	8.4	10.2		8.0
Green Ext Time (p_c), s	0.2	1.2		2.2	0.3	4.3		2.5

Intersection Summary	
HCM 2010 Ctrl Delay	20.4
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	1.7								
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	0	0	0	13	23	10	3	107	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	15	27	12	3	124	0

Major/Minor	Minor1			Major1		
Conflicting Flow All	273	279	124	148	0	0
Stage 1	131	131	-	-	-	-
Stage 2	142	148	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	721	632	932	1446	-	-
Stage 1	900	792	-	-	-	-
Stage 2	890	779	-	-	-	-
Platoon blocked, %					-	-
Mov Cap-1 Maneuver	720	0	932	1446	-	-
Mov Cap-2 Maneuver	720	0	-	-	-	-
Stage 1	898	0	-	-	-	-
Stage 2	890	0	-	-	-	-

Approach	WB	NB
HCM Control Delay, s	9.8	0.2
HCM LOS	A	

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1446	-	-	799	1475	-	-
HCM Lane V/C Ratio	0.002	-	-	0.067	-	-	-
HCM Control Delay (s)	7.5	0	-	9.8	0	-	-
HCM Lane LOS	A	A	-	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	118	9
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	86	86	86
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	137	10

Major/Minor	Major2		
Conflicting Flow All	124	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1475	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1475	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0
HCM LOS	

Minor Lane/Major Mvmt

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	8	148	20	54	588	14	6	33	63	6	52	31
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	9	170	23	62	676	16	7	38	72	7	60	36
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	37	924	123	149	1264	30	18	97	184	20	171	103
Arrive On Green	0.02	0.29	0.29	0.08	0.35	0.35	0.18	0.18	0.18	0.16	0.16	0.16
Sat Flow, veh/h	1810	3203	427	1810	3605	85	102	555	1052	121	1039	624
Grp Volume(v), veh/h	9	95	98	62	338	354	117	0	0	103	0	0
Grp Sat Flow(s), veh/h/ln	1810	1805	1825	1810	1805	1885	1709	0	0	1784	0	0
Q Serve(g_s), s	0.5	3.8	3.9	3.2	14.5	14.5	5.9	0.0	0.0	5.0	0.0	0.0
Cycle Q Clear(g_c), s	0.5	3.8	3.9	3.2	14.5	14.5	5.9	0.0	0.0	5.0	0.0	0.0
Prop In Lane	1.00		0.23	1.00		0.05	0.06		0.62	0.07		0.35
Lane Grp Cap(c), veh/h	37	521	527	149	633	661	300	0	0	294	0	0
V/C Ratio(X)	0.24	0.18	0.19	0.42	0.53	0.54	0.39	0.00	0.00	0.35	0.00	0.00
Avail Cap(c_a), veh/h	93	521	527	205	633	661	300	0	0	294	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.75	0.75	0.75	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	46.8	25.9	25.9	42.3	25.2	25.2	35.4	0.0	0.0	35.9	0.0	0.0
Incr Delay (d2), s/veh	3.3	0.8	0.8	1.4	2.4	2.3	3.8	0.0	0.0	3.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.0	2.1	1.6	7.7	8.0	3.1	0.0	0.0	2.7	0.0	0.0
LnGrp Delay(d),s/veh	50.0	26.7	26.7	43.7	27.6	27.5	39.2	0.0	0.0	39.1	0.0	0.0
LnGrp LOS	D	C	C	D	C	C	D			D		
Approach Vol, veh/h		202			754			117			103	
Approach Delay, s/veh		27.7			28.9			39.2			39.1	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	35.0		23.0	9.0	44.0		24.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	14.0	31.0		19.0	8.0	37.0		20.0
Max Q Clear Time (g_c+I1), s	6.2	6.9		8.0	3.5	17.5		8.9
Green Ext Time (p_c), s	2.7	1.0		0.3	0.0	4.4		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	30.6
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	6.3								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	1	1	10	92	6	317	5	242	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	Yeild	-	-	None
Storage Length	-	-	-	-	-	25	-	-	
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	
Peak Hour Factor	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	1	11	105	7	360	6	275	0

Major/Minor	Minor2			Minor1			Major1		
Conflicting Flow All	685	681	395	687	683	275	397	0	0
Stage 1	395	395	-	286	286	-	-	-	-
Stage 2	290	286	-	401	397	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	365	375	659	364	374	769	1173	-	-
Stage 1	634	608	-	726	679	-	-	-	-
Stage 2	722	679	-	630	607	-	-	-	-
Platoon blocked, %									
Mov Cap-1 Maneuver	190	373	659	355	372	769	1173	-	-
Mov Cap-2 Maneuver	190	373	-	355	372	-	-	-	-
Stage 1	630	608	-	722	675	-	-	-	-
Stage 2	378	675	-	618	607	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	12.1	15.1	0.2
HCM LOS	B	C	

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1173	-	-	519	356	769	1300	-	-
HCM Lane V/C Ratio	0.005	-	-	0.026	0.313	0.468			
HCM Control Delay (s)	8.1	0	-	12.1	19.6	13.7	0	-	-
HCM Lane LOS	A	A	-	B	C	B	A		
HCM 95th %tile Q(veh)	0	-	-	0.1	1.3	2.5	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	346	3
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	88	88	88
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	393	3

Major/Minor	Major2		
Conflicting Flow All	275	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1300	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1300	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0
HCM LOS	

Minor Lane/Major Mvmt

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Intersection						
Int Delay, s/veh	4					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	37	92	215	213	253	234
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	42	103	242	239	284	263

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1073	242	0	0	242	0
Stage 1	242	-	-	-	-	-
Stage 2	831	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	246	802	-	-	1336	-
Stage 1	803	-	-	-	-	-
Stage 2	431	-	-	-	-	-
Platoon blocked, %				-		-
Mov Cap-1 Maneuver	194	802	-	-	1336	-
Mov Cap-2 Maneuver	194	-	-	-	-	-
Stage 1	803	-	-	-	-	-
Stage 2	339	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	15.4	0	4.4
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	194	802	1336	-
HCM Lane V/C Ratio	-	-	0.214	0.129	0.213	-
HCM Control Delay (s)	-	-	28.5	10.2	8.4	-
HCM Lane LOS	-	-	D	B	A	-
HCM 95th %tile Q(veh)	-	-	0.8	0.4	0.8	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	89	167	21	90	575	63	50	60	14	23	103	235
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	94	176	22	95	605	66	53	63	15	24	108	247
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	95	1497	185	97	780	85	184	362	86	55	142	294
Arrive On Green	0.05	0.46	0.46	0.05	0.46	0.46	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	1810	3235	399	1810	1684	184	411	1351	322	56	530	1097
Grp Volume(v), veh/h	94	97	101	95	0	671	53	0	78	379	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1830	1810	0	1868	411	0	1672	1683	0	0
Q Serve(g_s), s	5.0	3.0	3.0	5.1	0.0	29.2	0.0	0.0	3.5	8.5	0.0	0.0
Cycle Q Clear(g_c), s	5.0	3.0	3.0	5.1	0.0	29.2	19.6	0.0	3.5	20.6	0.0	0.0
Prop In Lane	1.00		0.22	1.00		0.10	1.00		0.19	0.06		0.65
Lane Grp Cap(c), veh/h	95	835	846	97	0	866	184	0	448	490	0	0
V/C Ratio(X)	0.99	0.12	0.12	0.98	0.00	0.78	0.29	0.00	0.17	0.77	0.00	0.00
Avail Cap(c_a), veh/h	149	835	846	205	0	866	184	0	448	490	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.99	0.00	0.99	1.00	0.00	0.00
Uniform Delay (d), s/veh	46.0	14.8	14.8	45.9	0.0	21.8	33.2	0.0	27.3	33.5	0.0	0.0
Incr Delay (d2), s/veh	57.7	0.3	0.3	38.7	0.0	6.7	3.9	0.0	0.8	11.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	1.6	1.6	3.6	0.0	16.5	1.5	0.0	1.7	11.1	0.0	0.0
LnGrp Delay(d),s/veh	103.7	15.1	15.1	84.6	0.0	28.5	37.1	0.0	28.1	44.8	0.0	0.0
LnGrp LOS	F	B	B	F		C	D		C	D		
Approach Vol, veh/h		292			766			131			379	
Approach Delay, s/veh		43.6			35.5			31.7			44.8	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.2	54.8		33.0	12.1	54.9		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	14.0	45.0		29.0	11.0	48.0		29.0
Max Q Clear Time (g_c+I1), s	8.1	6.0		23.6	8.0	32.2		22.6
Green Ext Time (p_c), s	0.1	7.1		1.6	0.0	5.3		1.8

Intersection Summary	
HCM 2010 Ctrl Delay	38.9
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	24	53	4	9	13	47	10	370	53	89	564	29
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	26	56	4	10	14	50	11	394	56	95	600	31
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	126	108	8	135	22	80	47	1647	737	377	2231	115
Arrive On Green	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.46	0.46	0.21	0.64	0.64
Sat Flow, veh/h	1359	1753	125	1364	365	1305	1810	3610	1615	1810	3493	180
Grp Volume(v), veh/h	26	0	60	10	0	64	11	394	56	95	310	321
Grp Sat Flow(s),veh/h/ln	1359	0	1878	1364	0	1670	1810	1805	1615	1810	1805	1868
Q Serve(g_s), s	1.5	0.0	2.4	0.5	0.0	2.9	0.5	5.1	1.5	3.4	5.7	5.8
Cycle Q Clear(g_c), s	4.3	0.0	2.4	2.9	0.0	2.9	0.5	5.1	1.5	3.4	5.7	5.8
Prop In Lane	1.00		0.07	1.00		0.78	1.00		1.00	1.00		0.10
Lane Grp Cap(c), veh/h	126	0	115	135	0	102	47	1647	737	377	1153	1193
V/C Ratio(X)	0.21	0.00	0.52	0.07	0.00	0.62	0.23	0.24	0.08	0.25	0.27	0.27
Avail Cap(c_a), veh/h	415	0	514	425	0	457	212	1647	737	543	1153	1193
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.97	0.97	0.97	0.59	0.59	0.59
Uniform Delay (d), s/veh	37.3	0.0	34.9	36.3	0.0	35.1	36.6	12.7	11.7	25.4	6.0	6.0
Incr Delay (d2), s/veh	0.8	0.0	3.6	0.2	0.0	6.1	2.4	0.3	0.2	0.2	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	1.3	0.2	0.0	1.5	0.3	2.6	0.7	1.7	2.9	3.1
LnGrp Delay(d),s/veh	38.0	0.0	38.5	36.6	0.0	41.2	39.0	13.1	11.9	25.6	6.4	6.4
LnGrp LOS	D		D	D		D	D	B	B	C	A	A
Approach Vol, veh/h		86			74			461			726	
Approach Delay, s/veh		38.4			40.6			13.5			8.9	
Approach LOS		D			D			B			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	46.3	42.0		11.7	32.3	56.0		11.7
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	26.0	38.0		24.0	12.0	52.0		24.0
Max Q Clear Time (g_c+I1), s	6.4	8.1		7.3	3.5	8.8		5.9
Green Ext Time (p_c), s	0.2	2.9		0.6	0.1	4.4		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	14.1
HCM 2010 LOS	B

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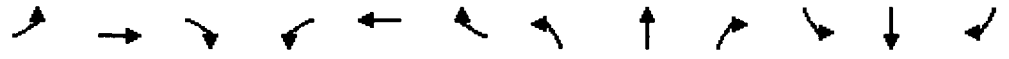

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	33	187	0	7	628	152	3	2	1	253	10	46
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	40	225	0	8	757	183	4	2	1	305	12	55
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	309	1459	0	36	914	409	135	68	34	567	48	220
Arrive On Green	0.34	0.81	0.00	0.02	0.25	0.25	0.13	0.13	0.13	0.16	0.16	0.16
Sat Flow, veh/h	1810	3705	0	1810	3610	1615	1030	515	258	3510	297	1362
Grp Volume(v), veh/h	40	225	0	8	757	183	7	0	0	305	0	67
Grp Sat Flow(s),veh/h/ln	1810	1805	0	1810	1805	1615	1803	0	0	1755	0	1660
Q Serve(g_s), s	1.5	1.4	0.0	0.4	19.6	9.4	0.3	0.0	0.0	7.9	0.0	3.5
Cycle Q Clear(g_c), s	1.5	1.4	0.0	0.4	19.6	9.4	0.3	0.0	0.0	7.9	0.0	3.5
Prop In Lane	1.00		0.00	1.00		1.00	0.57		0.14	1.00		0.82
Lane Grp Cap(c), veh/h	309	1459	0	36	914	409	237	0	0	567	0	268
V/C Ratio(X)	0.13	0.15	0.00	0.22	0.83	0.45	0.03	0.00	0.00	0.54	0.00	0.25
Avail Cap(c_a), veh/h	309	1459	0	55	1313	587	237	0	0	567	0	268
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.99	0.00	0.99
Uniform Delay (d), s/veh	27.5	5.8	0.0	47.7	34.9	31.1	37.5	0.0	0.0	38.1	0.0	36.3
Incr Delay (d2), s/veh	0.2	0.2	0.0	3.0	3.1	0.8	0.2	0.0	0.0	3.6	0.0	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.7	0.0	0.2	10.2	4.3	0.2	0.0	0.0	4.1	0.0	1.8
LnGrp Delay(d),s/veh	27.7	6.0	0.0	50.7	38.0	31.9	37.7	0.0	0.0	41.7	0.0	38.4
LnGrp LOS	C	A		D	D	C	D			D		D
Approach Vol, veh/h		265			948			7			372	
Approach Delay, s/veh		9.3			36.9			37.7			41.1	
Approach LOS		A			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.0	47.0		23.0	24.9	32.1		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	6.0	43.0		19.0	10.0	39.0		16.0
Max Q Clear Time (g_c+I1), s	3.4	4.4		10.9	4.5	22.6		3.3
Green Ext Time (p_c), s	0.0	1.5		0.9	0.0	5.4		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.3
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	208	0	0	372	13	299	34	97	0	0	44
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	0	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	219	0	0	392	14	315	36	102	0	0	46
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	844	0	0	810	29	653	75	646	0	0	0
Arrive On Green	0.00	0.44	0.00	0.00	0.44	0.44	0.40	0.40	0.40	0.00	0.00	0.00
Sat Flow, veh/h	0	1900	0	0	1823	65	1632	187	1615		0	
Grp Volume(v), veh/h	0	219	0	0	0	406	351	0	102		0.0	
Grp Sat Flow(s),veh/h/ln	0	1900	0	0	0	1889	1818	0	1615			
Q Serve(g_s), s	0.0	6.5	0.0	0.0	0.0	13.7	12.9	0.0	3.6			
Cycle Q Clear(g_c), s	0.0	6.5	0.0	0.0	0.0	13.7	12.9	0.0	3.6			
Prop In Lane	0.00		0.00	0.00		0.03	0.90		1.00			
Lane Grp Cap(c), veh/h	0	844	0	0	0	839	727	0	646			
V/C Ratio(X)	0.00	0.26	0.00	0.00	0.00	0.48	0.48	0.00	0.16			
Avail Cap(c_a), veh/h	0	844	0	0	0	839	727	0	646			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	15.7	0.0	0.0	0.0	17.7	20.1	0.0	17.3			
Incr Delay (d2), s/veh	0.0	0.7	0.0	0.0	0.0	2.0	2.3	0.0	0.5			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	3.6	0.0	0.0	0.0	7.6	6.9	0.0	1.7			
LnGrp Delay(d),s/veh	0.0	16.4	0.0	0.0	0.0	19.7	22.4	0.0	17.8			
LnGrp LOS		B				B	C		B			
Approach Vol, veh/h		219			406			453				
Approach Delay, s/veh		16.4			19.7			21.3				
Approach LOS		B			B			C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		57.0				57.0		43.0
Change Period (Y+Rc), s		4.0				4.0		4.0
Max Green Setting (Gmax), s		43.0				43.0		39.0
Max Q Clear Time (g_c+I1), s		9.5				16.7		15.9
Green Ext Time (p_c), s		4.3				4.1		2.5

Intersection Summary	
HCM 2010 Ctrl Delay	19.7
HCM 2010 LOS	B

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Intersection									
Int Delay, s/veh	5.9								
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	242	23	9	4	39	39	3	29	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	266	25	10	4	43	43	3	32	7

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	86	0	0	35	0	0	635	657	30
Stage 1	-	-	-	-	-	-	562	562	-
Stage 2	-	-	-	-	-	-	73	95	-
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3
Pot Cap-1 Maneuver	1523	-	-	1589	-	-	446	387	1050
Stage 1	-	-	-	-	-	-	575	513	-
Stage 2	-	-	-	-	-	-	955	820	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1523	-	-	1589	-	-	366	0	1050
Mov Cap-2 Maneuver	-	-	-	-	-	-	366	0	-
Stage 1	-	-	-	-	-	-	473	0	-
Stage 2	-	-	-	-	-	-	952	0	-

Approach	EB	WB	NB
HCM Control Delay, s	6.9	0.4	10.9
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	647	1523	-	-	1589	-	-
HCM Lane V/C Ratio	0.065	0.175	-	-	0.003	-	-
HCM Control Delay (s)	10.9	7.9	0	-	7.3	0	-
HCM Lane LOS	B	A	A	-	A	A	-
HCM 95th %tile Q(veh)	0.2	0.6	-	-	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	0	0
Conflicting Peds, #/hr	0	0	0
Sign Control	Stop	Stop	Stop
RT Channelized	-	-	None
Storage Length	-	-	
Veh in Median Storage, #	-	0	-
Grade, %	-	0	
Peak Hour Factor	91	91	91
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	0	0

Major/Minor			
Conflicting Flow All			
Stage 1			
Stage 2			
Critical Hdwy			
Critical Hdwy Stg 1			
Critical Hdwy Stg 2			
Follow-up Hdwy			
Pot Cap-1 Maneuver			
Stage 1			
Stage 2			
Platoon blocked, %			
Mov Cap-1 Maneuver			
Mov Cap-2 Maneuver			
Stage 1			
Stage 2			

Approach			
HCM Control Delay, s			
HCM LOS			

Minor Lane/Major Mvmt			

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Intersection	
Intersection Delay, s/veh	10.7
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	214	33	0	26	61	0	0	41	0	77
Peak Hour Factor	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	228	35	0	28	65	0	0	44	0	82
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	11.2	9.4	9
HCM LOS	B	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	35%	0%	100%	0%	54%
Vol Thru, %	0%	87%	0%	100%	41%
Vol Right, %	65%	13%	0%	0%	6%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	118	247	26	61	264
LT Vol	0	214	0	61	107
Through Vol	77	33	0	0	15
RT Vol	41	0	26	0	142
Lane Flow Rate	126	263	28	65	281
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.174	0.369	0.049	0.107	0.393
Departure Headway (Hd)	4.98	5.163	6.426	5.919	5.043
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	724	702	560	608	705
Service Time	2.985	3.163	4.134	3.627	3.139
HCM Lane V/C Ratio	0.174	0.375	0.05	0.107	0.399
HCM Control Delay	9	11.2	9.5	9.3	11.4
HCM Lane LOS	A	B	A	A	B
HCM 95th-tile Q	0.6	1.7	0.2	0.4	1.9

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	142	107	15
Peak Hour Factor	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	151	114	16
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.4
HCM LOS	B

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	316	57	98	214	243	0	0	216	20
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				274	197	114	249	283	0	0	251	23
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				346	216	125	624	1220	0	0	717	65
Arrive On Green				0.19	0.19	0.19	0.34	0.64	0.00	0.00	0.21	0.21
Sat Flow, veh/h				1810	1130	654	1810	1900	0	0	3442	304
Grp Volume(v), veh/h				274	0	311	249	283	0	0	134	140
Grp Sat Flow(s),veh/h/ln				1810	0	1785	1810	1900	0	0	1805	1846
Q Serve(g_s), s				12.1	0.0	14.4	8.8	5.3	0.0	0.0	5.3	5.4
Cycle Q Clear(g_c), s				12.1	0.0	14.4	8.8	5.3	0.0	0.0	5.3	5.4
Prop In Lane				1.00		0.37	1.00		0.00	0.00		0.16
Lane Grp Cap(c), veh/h				346	0	341	624	1220	0	0	386	395
V/C Ratio(X)				0.79	0.00	0.91	0.40	0.23	0.00	0.00	0.35	0.35
Avail Cap(c_a), veh/h				689	0	679	624	1220	0	0	386	395
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				32.4	0.0	33.3	20.9	6.3	0.0	0.0	28.1	28.1
Incr Delay (d2), s/veh				4.1	0.0	9.5	1.9	0.4	0.0	0.0	2.5	2.5
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				6.4	0.0	8.0	4.7	2.9	0.0	0.0	2.9	3.0
LnGrp Delay(d),s/veh				36.5	0.0	42.8	22.8	6.8	0.0	0.0	30.5	30.5
LnGrp LOS				D		D	C	A			C	C
Approach Vol, veh/h					585			532			274	
Approach Delay, s/veh					39.9			14.3			30.5	
Approach LOS					D			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		76.9			51.9	25.0		23.1
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		57.0			32.0	21.0		35.0
Max Q Clear Time (g_c+I1), s		8.3			11.8	8.4		17.4
Green Ext Time (p_c), s		2.6			2.3	1.2		1.7

Intersection Summary	
HCM 2010 Ctrl Delay	28.2
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	91	236	82	6	19	31	10	330	361	101	332	63
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	97	251	87	6	20	33	11	351	384	107	353	67
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	367	288	100	122	406	345	22	1717	768	110	1590	299
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21	0.01	0.48	0.48	0.06	0.52	0.52
Sat Flow, veh/h	1373	1350	468	1059	1900	1615	1810	3610	1615	1810	3034	570
Grp Volume(v), veh/h	97	0	338	6	20	33	11	351	384	107	209	211
Grp Sat Flow(s),veh/h/ln	1373	0	1817	1059	1900	1615	1810	1805	1615	1810	1805	1799
Q Serve(g_s), s	5.1	0.0	15.1	0.5	0.7	1.4	0.5	4.7	13.7	5.0	5.2	5.3
Cycle Q Clear(g_c), s	5.8	0.0	15.1	15.5	0.7	1.4	0.5	4.7	13.7	5.0	5.2	5.3
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		0.32
Lane Grp Cap(c), veh/h	367	0	388	122	406	345	22	1717	768	110	946	943
V/C Ratio(X)	0.26	0.00	0.87	0.05	0.05	0.10	0.50	0.20	0.50	0.97	0.22	0.22
Avail Cap(c_a), veh/h	597	0	693	299	724	615	65	1717	768	302	946	943
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.79	0.79	0.79	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.5	0.0	31.9	39.4	26.2	26.5	41.2	12.8	15.2	39.4	10.8	10.8
Incr Delay (d2), s/veh	0.4	0.0	6.1	0.2	0.0	0.1	12.9	0.2	1.8	33.7	0.5	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	8.2	0.1	0.4	0.6	0.3	2.4	6.5	3.5	2.7	2.8
LnGrp Delay(d),s/veh	28.9	0.0	38.0	39.6	26.3	26.6	54.1	13.0	17.0	73.0	11.3	11.3
LnGrp LOS	C		D	D	C	C	D	B	B	E	B	B
Approach Vol, veh/h		435			59			746			527	
Approach Delay, s/veh		36.0			27.8			15.7			23.8	
Approach LOS		D			C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.1	63.0		24.9	24.1	51.0		24.9
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	17.0	36.0		35.0	6.0	47.0		35.0
Max Q Clear Time (g_c+I1), s	8.0	16.7		18.1	3.5	8.3		18.5
Green Ext Time (p_c), s	0.1	3.6		2.4	0.0	2.7		2.4

Intersection Summary	
HCM 2010 Ctrl Delay	23.5
HCM 2010 LOS	C

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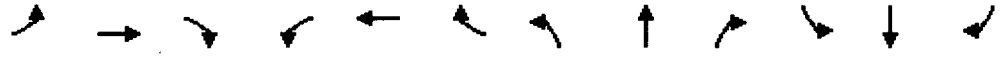

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	355	638	18	16	133	31	16	104	28	34	68	204
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	394	709	20	18	148	34	18	116	31	38	76	227
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	686	1963	55	38	556	124	210	304	81	127	232	340
Arrive On Green	0.38	0.55	0.55	0.04	0.38	0.38	0.21	0.21	0.21	0.07	0.07	0.07
Sat Flow, veh/h	1810	3586	101	1810	2932	657	1093	1446	386	364	1102	1615
Grp Volume(v), veh/h	394	357	372	18	90	92	18	0	147	114	0	227
Grp Sat Flow(s),veh/h/ln	1810	1805	1882	1810	1805	1784	1093	0	1832	1467	0	1615
Q Serve(g_s), s	16.4	10.6	10.6	0.9	3.3	3.4	1.4	0.0	6.5	1.8	0.0	13.0
Cycle Q Clear(g_c), s	16.4	10.6	10.6	0.9	3.3	3.4	9.7	0.0	6.5	8.3	0.0	13.0
Prop In Lane	1.00		0.05	1.00		0.37	1.00		0.21	0.33		1.00
Lane Grp Cap(c), veh/h	686	988	1030	38	342	338	210	0	386	359	0	340
V/C Ratio(X)	0.57	0.36	0.36	0.47	0.26	0.27	0.09	0.00	0.38	0.32	0.00	0.67
Avail Cap(c_a), veh/h	781	988	1030	133	342	338	210	0	386	359	0	340
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	0.33	0.33	0.33
Upstream Filter(I)	1.00	1.00	1.00	0.99	0.99	0.99	1.00	0.00	1.00	0.99	0.00	0.99
Uniform Delay (d), s/veh	23.4	12.1	12.1	45.0	24.9	25.0	37.2	0.0	32.2	38.1	0.0	41.0
Incr Delay (d2), s/veh	0.8	1.0	1.0	8.8	1.9	2.0	0.8	0.0	2.8	2.3	0.0	9.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.4	5.5	5.8	0.5	1.8	1.9	0.5	0.0	3.6	3.1	0.0	6.8
LnGrp Delay(d),s/veh	24.2	13.2	13.1	53.8	26.8	26.9	38.0	0.0	35.0	40.4	0.0	50.8
LnGrp LOS	C	B	B	D	C	C	D		D	D		D
Approach Vol, veh/h		1123			200			165			341	
Approach Delay, s/veh		17.0			29.3			35.4			47.4	
Approach LOS		B			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	59.0		27.0	48.0	25.0		27.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	10.0	55.0		23.0	44.0	21.0		23.0
Max Q Clear Time (g_c+I1), s	3.9	13.6		16.0	19.4	6.4		12.7
Green Ext Time (p_c), s	0.7	5.2		1.4	1.3	0.8		1.8

Intersection Summary	
HCM 2010 Ctrl Delay	25.7
HCM 2010 LOS	C

Intersection									
Int Delay, s/veh	1.9								
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	0	0	0	8	26	13	23	170	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	8	27	14	24	179	0

Major/Minor	Minor1			Major1		
Conflicting Flow All	333	338	179	111	0	0
Stage 1	227	227	-	-	-	-
Stage 2	106	111	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	666	586	869	1492	-	-
Stage 1	815	720	-	-	-	-
Stage 2	923	807	-	-	-	-
Platoon blocked, %					-	-
Mov Cap-1 Maneuver	654	0	869	1492	-	-
Mov Cap-2 Maneuver	654	0	-	-	-	-
Stage 1	800	0	-	-	-	-
Stage 2	923	0	-	-	-	-

Approach	WB	NB
HCM Control Delay, s	10	0.9
HCM LOS	B	

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1492	-	-	772	1409	-	-
HCM Lane V/C Ratio	0.016	-	-	0.064	-	-	-
HCM Control Delay (s)	7.5	0	-	10	0	-	-
HCM Lane LOS	A	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-

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Intersection			
Int Delay, s/veh			
Movement	SBL	SBT	SBR
Vol, veh/h	0	96	9
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	95	95	95
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	101	9
Major/Minor	Major2		
Conflicting Flow All	179	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1409	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1409	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0
HCM LOS	

Minor Lane/Major Mvmt

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	67	697	7	21	150	12	11	40	37	20	22	19
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	74	766	8	23	165	13	12	44	41	22	24	21
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	132	1373	14	38	1096	86	34	125	116	91	99	87
Arrive On Green	0.07	0.38	0.38	0.02	0.32	0.32	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1810	3660	38	1810	3393	265	217	797	743	582	635	556
Grp Volume(v), veh/h	74	378	396	23	87	91	97	0	0	67	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1893	1810	1805	1853	1758	0	0	1773	0	0
Q Serve(g_s), s	3.8	15.9	15.9	1.2	3.3	3.4	4.7	0.0	0.0	3.2	0.0	0.0
Cycle Q Clear(g_c), s	3.8	15.9	15.9	1.2	3.3	3.4	4.7	0.0	0.0	3.2	0.0	0.0
Prop In Lane	1.00		0.02	1.00		0.14	0.12		0.42	0.33		0.31
Lane Grp Cap(c), veh/h	132	677	710	38	583	598	275	0	0	277	0	0
V/C Ratio(X)	0.56	0.56	0.56	0.61	0.15	0.15	0.35	0.00	0.00	0.24	0.00	0.00
Avail Cap(c_a), veh/h	207	677	710	113	583	598	275	0	0	277	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.93	0.93	0.93	0.99	0.99	0.99	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	43.0	23.7	23.7	46.6	23.1	23.1	36.2	0.0	0.0	35.5	0.0	0.0
Incr Delay (d2), s/veh	3.4	3.1	2.9	14.9	0.5	0.5	3.5	0.0	0.0	2.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	8.4	8.8	0.8	1.7	1.8	2.6	0.0	0.0	1.7	0.0	0.0
LnGrp Delay(d),s/veh	46.5	26.8	26.6	61.5	23.7	23.7	39.7	0.0	0.0	37.6	0.0	0.0
LnGrp LOS	D	C	C	E	C	C	D			D		
Approach Vol, veh/h		848			201			97			67	
Approach Delay, s/veh		28.4			28.0			39.7			37.6	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	47.0		22.0	18.0	38.0		22.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	9.0	39.0		18.0	14.0	34.0		18.0
Max Q Clear Time (g_c+I1), s	4.2	18.9		6.2	6.8	6.4		7.7
Green Ext Time (p_c), s	0.0	5.1		0.2	2.9	1.0		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	29.8
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	41.6								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	2	3	22	252	11	146	4	258	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	Yeild	-	-	None
Storage Length	-	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	3	24	274	12	159	4	280	0

Major/Minor	Minor2			Minor1			Major1		
Conflicting Flow All	906	900	490	914	902	280	491	0	0
Stage 1	611	611	-	289	289	-	-	-	-
Stage 2	295	289	-	625	613	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	259	280	582	~ 256	280	764	1083	-	-
Stage 1	484	487	-	723	677	-	-	-	-
Stage 2	718	677	-	476	486	-	-	-	-
Platoon blocked, %								-	
Mov Cap-1 Maneuver	188	261	582	~ 230	261	764	1083	-	-
Mov Cap-2 Maneuver	188	261	-	~ 230	261	-	-	-	-
Stage 1	482	455	-	720	674	-	-	-	-
Stage 2	557	674	-	424	454	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	13.5	120.5	0.1
HCM LOS	B	F	

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1083	-	-	451	231	764	1294	-	-
HCM Lane V/C Ratio	0.004	-	-	0.065	1.238	0.208	0.047	-	-
HCM Control Delay (s)	8.3	0	-	13.5	181.4	10.9	7.9	0	-
HCM Lane LOS	A	A	-	B	F	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	14.3	0.8	0.1	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	56	449	3
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	92	92	92
Heavy Vehicles, %	0	0	0
Mvmt Flow	61	488	3

Major/Minor	Major2		
Conflicting Flow All	280	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1294	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1294	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0.9
HCM LOS	

Minor Lane/Major Mvmt

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Intersection						
Int Delay, s/veh	8.5					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	80	180	135	243	369	348
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	87	196	147	264	401	378

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1327	147	0	0	147	0
Stage 1	147	-	-	-	-	-
Stage 2	1180	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	173	905	-	-	1447	-
Stage 1	885	-	-	-	-	-
Stage 2	295	-	-	-	-	-
Platoon blocked, %				-		
Mov Cap-1 Maneuver	125	905	-	-	1447	-
Mov Cap-2 Maneuver	125	-	-	-	-	-
Stage 1	885	-	-	-	-	-
Stage 2	213	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	32.3	0	4.3
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	125	905	1447	-
HCM Lane V/C Ratio	-	-	0.696	0.216	0.277	-
HCM Control Delay (s)	-	-	82.4	10.1	8.4	-
HCM Lane LOS	-	-	F	B	A	-
HCM 95th %tile Q(veh)	-	-	3.8	0.8	1.1	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	97	410	95	152	330	157	19	95	48	54	187	104
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	102	432	100	160	347	165	20	100	51	57	197	109
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	103	1099	252	161	498	237	125	588	302	105	315	161
Arrive On Green	0.06	0.38	0.38	0.09	0.41	0.41	0.31	0.31	0.31	0.31	0.31	0.31
Sat Flow, veh/h	1810	2917	670	1810	1218	579	249	1872	960	195	1002	513
Grp Volume(v), veh/h	102	266	266	160	0	512	88	0	83	363	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1782	1810	0	1798	1522	0	1560	1710	0	0
Q Serve(g_s), s	5.4	10.3	10.4	8.4	0.0	22.5	0.0	0.0	3.7	9.5	0.0	0.0
Cycle Q Clear(g_c), s	5.4	10.3	10.4	8.4	0.0	22.5	3.2	0.0	3.7	17.3	0.0	0.0
Prop In Lane	1.00		0.38	1.00		0.32	0.23		0.62	0.16		0.30
Lane Grp Cap(c), veh/h	103	680	671	161	0	734	525	0	490	581	0	0
V/C Ratio(X)	0.99	0.39	0.40	0.99	0.00	0.70	0.17	0.00	0.17	0.62	0.00	0.00
Avail Cap(c_a), veh/h	190	680	671	303	0	734	525	0	490	581	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.96	0.00	0.96	1.00	0.00	0.00
Uniform Delay (d), s/veh	45.0	21.7	21.8	43.4	0.0	23.3	23.5	0.0	23.7	28.2	0.0	0.0
Incr Delay (d2), s/veh	43.1	1.7	1.7	34.4	0.0	5.4	0.7	0.0	0.7	5.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	5.4	5.4	5.7	0.0	12.2	1.8	0.0	1.7	9.1	0.0	0.0
LnGrp Delay(d),s/veh	88.0	23.4	23.5	77.9	0.0	28.8	24.2	0.0	24.4	33.3	0.0	0.0
LnGrp LOS	F	C	C	E		C	C		C	C		
Approach Vol, veh/h		634			672			171			363	
Approach Delay, s/veh		33.9			40.5			24.3			33.3	
Approach LOS		C			D			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.5	47.5		37.0	12.5	50.5		37.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	19.0	36.0		33.0	13.0	42.0		33.0
Max Q Clear Time (g_c+I1), s	11.4	13.4		20.3	8.4	25.5		6.7
Green Ext Time (p_c), s	0.2	7.2		2.7	0.1	6.3		3.6

Intersection Summary	
HCM 2010 Ctrl Delay	35.3
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	26	181	9	11	12	41	5	570	218	196	692	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	28	193	10	12	13	44	5	606	232	209	736	20
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	226	234	12	120	50	168	2	1762	788	216	2372	64
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.00	0.49	0.49	0.12	0.66	0.66
Sat Flow, veh/h	1368	1791	93	1198	381	1291	1810	3610	1615	1810	3590	98
Grp Volume(v), veh/h	28	0	203	12	0	57	5	606	232	209	370	386
Grp Sat Flow(s),veh/h/ln	1368	0	1884	1198	0	1672	1810	1805	1615	1810	1805	1883
Q Serve(g_s), s	1.5	0.0	8.4	0.8	0.0	2.5	0.1	8.3	6.9	9.2	7.0	7.0
Cycle Q Clear(g_c), s	4.0	0.0	8.4	9.2	0.0	2.5	0.1	8.3	6.9	9.2	7.0	7.0
Prop In Lane	1.00		0.05	1.00		0.77	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	226	0	246	120	0	218	2	1762	788	216	1192	1244
V/C Ratio(X)	0.12	0.00	0.83	0.10	0.00	0.26	2.22	0.34	0.29	0.97	0.31	0.31
Avail Cap(c_a), veh/h	423	0	517	292	0	459	90	1762	788	541	1192	1244
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.84	0.84	0.84	0.60	0.60	0.60
Uniform Delay (d), s/veh	33.2	0.0	34.0	38.5	0.0	31.4	40.1	12.6	12.3	35.2	5.8	5.8
Incr Delay (d2), s/veh	0.2	0.0	6.9	0.4	0.0	0.6	741.8	0.4	0.8	15.3	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	358.9	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	4.9	0.3	0.0	1.2	0.5	4.2	3.2	5.5	3.6	3.8
LnGrp Delay(d),s/veh	33.4	0.0	40.9	38.8	0.0	32.0	1140.8	13.1	13.1	50.5	6.2	6.2
LnGrp LOS	C		D	D		C	F	B	B	D	A	A
Approach Vol, veh/h		231			69			843			965	
Approach Delay, s/veh		40.0			33.2			19.8			15.8	
Approach LOS		D			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.6	65.9		17.5	22.5	60.0		17.5
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	27.0	36.0		25.0	7.0	56.0		25.0
Max Q Clear Time (g_c+I1), s	12.2	11.3		11.4	3.1	10.0		12.2
Green Ext Time (p_c), s	0.5	5.2		1.3	0.0	5.5		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	20.6
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	127	677	1	1	131	235	1	9	5	134	1	15
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	141	752	1	1	146	261	1	10	6	149	1	17
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	131	1640	2	2	1216	544	14	144	86	556	14	243
Arrive On Green	0.05	0.30	0.30	0.00	0.34	0.34	0.14	0.14	0.14	0.16	0.16	0.16
Sat Flow, veh/h	1810	3699	5	1810	3610	1615	105	1049	630	3510	90	1538
Grp Volume(v), veh/h	141	367	386	1	146	261	17	0	0	149	0	18
Grp Sat Flow(s),veh/h/ln	1810	1805	1899	1810	1805	1615	1784	0	0	1755	0	1629
Q Serve(g_s), s	6.8	15.7	15.7	0.1	2.6	12.1	0.8	0.0	0.0	3.5	0.0	0.9
Cycle Q Clear(g_c), s	6.8	15.7	15.7	0.1	2.6	12.1	0.8	0.0	0.0	3.5	0.0	0.9
Prop In Lane	1.00		0.00	1.00		1.00	0.06		0.35	1.00		0.94
Lane Grp Cap(c), veh/h	131	800	842	2	1216	544	245	0	0	556	0	258
V/C Ratio(X)	1.08	0.46	0.46	0.52	0.12	0.48	0.07	0.00	0.00	0.27	0.00	0.07
Avail Cap(c_a), veh/h	325	800	842	38	1216	544	245	0	0	556	0	258
HCM Platoon Ratio	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.87	0.87	0.87	1.00	1.00	1.00	1.00	0.00	0.00	0.97	0.00	0.97
Uniform Delay (d), s/veh	45.1	24.1	24.1	47.4	21.7	24.9	35.6	0.0	0.0	35.1	0.0	33.9
Incr Delay (d2), s/veh	57.2	1.6	1.6	136.7	0.0	0.7	0.5	0.0	0.0	1.1	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	8.2	8.6	0.1	1.3	5.5	0.4	0.0	0.0	1.8	0.0	0.4
LnGrp Delay(d),s/veh	102.3	25.7	25.6	184.0	21.8	25.5	36.2	0.0	0.0	36.2	0.0	34.4
LnGrp LOS	F	C	C	F	C	C	D			D		C
Approach Vol, veh/h		894			408			17			167	
Approach Delay, s/veh		37.7			24.6			36.2			36.0	
Approach LOS		D			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	49.0		22.0	13.8	44.2		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	5.0	45.0		18.0	20.0	30.0		16.0
Max Q Clear Time (g_c+I1), s	3.1	18.7		6.5	9.8	15.1		3.8
Green Ext Time (p_c), s	0.0	5.1		0.4	0.2	1.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.9
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	485	0	0	284	20	293	32	125	0	0	50
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	0	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	511	0	0	299	21	308	34	132	0	0	53
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	618	0	0	571	40	789	87	778	0	0	0
Arrive On Green	0.00	0.33	0.00	0.00	0.33	0.33	0.48	0.48	0.48	0.00	0.00	0.00
Sat Flow, veh/h	0	1900	0	0	1755	123	1637	181	1615		0	
Grp Volume(v), veh/h	0	511	0	0	0	320	342	0	132		0.0	
Grp Sat Flow(s),veh/h/ln	0	1900	0	0	0	1878	1818	0	1615			
Q Serve(g_s), s	0.0	18.0	0.0	0.0	0.0	10.1	8.7	0.0	3.3			
Cycle Q Clear(g_c), s	0.0	18.0	0.0	0.0	0.0	10.1	8.7	0.0	3.3			
Prop In Lane	0.00		0.00	0.00		0.07	0.90		1.00			
Lane Grp Cap(c), veh/h	0	618	0	0	0	611	876	0	778			
V/C Ratio(X)	0.00	0.83	0.00	0.00	0.00	0.52	0.39	0.00	0.17			
Avail Cap(c_a), veh/h	0	1073	0	0	0	1060	876	0	778			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	22.6	0.0	0.0	0.0	19.9	12.0	0.0	10.6			
Incr Delay (d2), s/veh	0.0	2.9	0.0	0.0	0.0	0.7	1.3	0.0	0.5			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	9.9	0.0	0.0	0.0	5.3	4.7	0.0	1.6			
LnGrp Delay(d),s/veh	0.0	25.5	0.0	0.0	0.0	20.6	13.3	0.0	11.1			
LnGrp LOS		C				C	B		B			
Approach Vol, veh/h		511			320			474				
Approach Delay, s/veh		25.5			20.6			12.7				
Approach LOS		C			C			B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		69.4		30.6				30.6
Change Period (Y+Rc), s		4.0		4.0				4.0
Max Green Setting (Gmax), s		38.0		44.0				44.0
Max Q Clear Time (g_c+I1), s		11.7		21.0				13.1
Green Ext Time (p_c), s		2.7		5.6				6.0

Intersection Summary	
HCM 2010 Ctrl Delay	19.7
HCM 2010 LOS	B

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Intersection	
Int Delay, s/veh	10.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	536	56	12	5	41	75	8	49	7
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	616	64	14	6	47	86	9	56	8

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	133	0	0	78	0	0	1405	1448	71
Stage 1	-	-	-	-	-	-	1303	1303	-
Stage 2	-	-	-	-	-	-	102	145	-
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3
Pot Cap-1 Maneuver	1464	-	-	1533	-	-	155	133	997
Stage 1	-	-	-	-	-	-	257	233	-
Stage 2	-	-	-	-	-	-	927	781	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1464	-	-	1533	-	-	86	0	997
Mov Cap-2 Maneuver	-	-	-	-	-	-	86	0	-
Stage 1	-	-	-	-	-	-	144	0	-
Stage 2	-	-	-	-	-	-	923	0	-

Approach	EB	WB	NB
HCM Control Delay, s	8.2	0.3	50.1
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	150	1464	-	-	1533	-	-
HCM Lane V/C Ratio	0.49	0.421	-	-	0.004	-	-
HCM Control Delay (s)	50.1	9.2	0	-	7.4	0	-
HCM Lane LOS	F	A	A	-	A	A	-
HCM 95th %tile Q(veh)	2.3	2.1	-	-	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	0	0
Conflicting Peds, #/hr	0	0	0
Sign Control	Stop	Stop	Stop
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	87	87	87
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	0	0

Major/Minor			
Conflicting Flow All			
Stage 1			
Stage 2			
Critical Hdwy			
Critical Hdwy Stg 1			
Critical Hdwy Stg 2			
Follow-up Hdwy			
Pot Cap-1 Maneuver			
Stage 1			
Stage 2			
Platoon blocked, %			
Mov Cap-1 Maneuver			
Mov Cap-2 Maneuver			
Stage 1			
Stage 2			

Approach	
HCM Control Delay, s	
HCM LOS	

Minor Lane/Major Mvmt

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APPENDIX E

EXISTING PLUS PROJECT HCM WORKSHEETS

Intersection	
Intersection Delay, s/veh	11.1
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	103	9	0	48	115	0	0	14	0	36
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	112	10	0	52	125	0	0	15	0	39
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	9.5	9.8	8.3
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	28%	0%	100%	0%	29%
Vol Thru, %	0%	92%	0%	100%	65%
Vol Right, %	72%	8%	0%	0%	5%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	50	112	48	115	346
LT Vol	0	103	0	115	226
Through Vol	36	9	0	0	18
RT Vol	14	0	48	0	102
Lane Flow Rate	54	122	52	125	376
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.072	0.178	0.09	0.197	0.499
Departure Headway (Hd)	4.799	5.258	6.186	5.681	4.78
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	736	674	574	625	748
Service Time	2.894	3.354	3.978	3.472	2.841
HCM Lane V/C Ratio	0.073	0.181	0.091	0.2	0.503
HCM Control Delay	8.3	9.5	9.6	9.9	12.6
HCM Lane LOS	A	A	A	A	B
HCM 95th-tile Q	0.2	0.6	0.3	0.7	2.8

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Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	102	226	18
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	111	246	20
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	12.6
HCM LOS	B

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	593	126	72	134	105	0	0	215	21
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				416	423	76	141	111	0	0	226	22
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				538	466	84	409	1001	0	0	710	68
Arrive On Green				0.30	0.30	0.30	0.23	0.53	0.00	0.00	0.21	0.21
Sat Flow, veh/h				1810	1568	282	1810	1900	0	0	3422	321
Grp Volume(v), veh/h				416	0	499	141	111	0	0	122	126
Grp Sat Flow(s),veh/h/ln				1810	0	1850	1810	1900	0	0	1805	1843
Q Serve(g_s), s				16.7	0.0	20.7	5.2	2.3	0.0	0.0	4.5	4.6
Cycle Q Clear(g_c), s				16.7	0.0	20.7	5.2	2.3	0.0	0.0	4.5	4.6
Prop In Lane				1.00		0.15	1.00		0.00	0.00		0.17
Lane Grp Cap(c), veh/h				538	0	550	409	1001	0	0	385	393
V/C Ratio(X)				0.77	0.00	0.91	0.35	0.11	0.00	0.00	0.32	0.32
Avail Cap(c_a), veh/h				999	0	1021	409	1001	0	0	385	393
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				25.5	0.0	26.9	25.9	9.5	0.0	0.0	26.4	26.5
Incr Delay (d2), s/veh				2.4	0.0	6.0	2.3	0.2	0.0	0.0	2.1	2.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				8.7	0.0	11.5	2.8	1.3	0.0	0.0	2.5	2.6
LnGrp Delay(d),s/veh				27.9	0.0	33.0	28.2	9.7	0.0	0.0	28.6	28.6
LnGrp LOS				C		C	C	A			C	C
Approach Vol, veh/h					915			252			248	
Approach Delay, s/veh					30.7			20.1			28.6	
Approach LOS					C			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		69.3			25.0	44.3		30.7
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		45.0			21.0	20.0		47.0
Max Q Clear Time (g_c+I1), s		5.3			8.2	7.6		23.7
Green Ext Time (p_c), s		2.2			0.3	1.6		3.0

Intersection Summary	
HCM 2010 Ctrl Delay	28.4
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	70	110	63	18	25	22	21	181	144	82	581	98
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	74	117	67	19	27	23	22	193	153	87	618	104
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	261	152	87	136	254	216	47	1706	763	214	1746	293
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.03	0.47	0.47	0.12	0.56	0.56
Sat Flow, veh/h	1376	1135	650	1219	1900	1615	1810	3610	1615	1810	3094	520
Grp Volume(v), veh/h	74	0	184	19	27	23	22	193	153	87	360	362
Grp Sat Flow(s),veh/h/ln	1376	0	1785	1219	1900	1615	1810	1805	1615	1810	1805	1808
Q Serve(g_s), s	3.8	0.0	7.6	1.2	1.0	1.0	0.9	2.3	4.2	3.4	8.3	8.3
Cycle Q Clear(g_c), s	4.8	0.0	7.6	8.7	1.0	1.0	0.9	2.3	4.2	3.4	8.3	8.3
Prop In Lane	1.00		0.36	1.00		1.00	1.00		1.00	1.00		0.29
Lane Grp Cap(c), veh/h	261	0	239	136	254	216	47	1706	763	214	1019	1021
V/C Ratio(X)	0.28	0.00	0.77	0.14	0.11	0.11	0.46	0.11	0.20	0.41	0.35	0.35
Avail Cap(c_a), veh/h	565	0	633	405	673	572	214	1706	763	380	1019	1021
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.92	0.92	0.92	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.1	0.0	31.9	36.1	29.0	29.0	36.6	11.2	11.7	31.1	9.0	9.0
Incr Delay (d2), s/veh	0.6	0.0	5.2	0.5	0.2	0.2	6.3	0.1	0.5	1.2	1.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	4.1	0.4	0.5	0.4	0.5	1.2	2.0	1.8	4.4	4.4
LnGrp Delay(d),s/veh	31.7	0.0	37.1	36.6	29.2	29.2	42.9	11.3	12.3	32.4	10.0	10.0
LnGrp LOS	C		D	D	C	C	D	B	B	C	A	B
Approach Vol, veh/h		258			69			368			809	
Approach Delay, s/veh		35.5			31.2			13.6			12.4	
Approach LOS		D			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	39.8	43.0		17.2	32.8	50.0		17.2
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	19.0	39.0		30.0	12.0	46.0		30.0
Max Q Clear Time (g_c+I1), s	6.4	7.2		10.6	3.9	11.3		11.7
Green Ext Time (p_c), s	0.2	1.8		1.5	0.1	5.2		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	17.5
HCM 2010 LOS	B

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	98	146	29	33	534	50	12	46	18	36	97	295
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	109	162	32	37	593	56	13	51	20	40	108	328
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	194	1347	261	40	1205	114	333	401	157	165	422	498
Arrive On Green	0.11	0.45	0.45	0.04	0.72	0.72	0.31	0.31	0.31	0.51	0.51	0.51
Sat Flow, veh/h	1810	3018	584	1810	3335	314	968	1300	510	377	1369	1615
Grp Volume(v), veh/h	109	96	98	37	320	329	13	0	71	148	0	328
Grp Sat Flow(s), veh/h/ln	1810	1805	1797	1810	1805	1845	968	0	1810	1746	0	1615
Q Serve(g_s), s	5.4	2.9	3.0	1.9	7.2	7.2	0.9	0.0	2.7	0.0	0.0	14.0
Cycle Q Clear(g_c), s	5.4	2.9	3.0	1.9	7.2	7.2	5.0	0.0	2.7	4.1	0.0	14.0
Prop In Lane	1.00		0.32	1.00		0.17	1.00		0.28	0.27		1.00
Lane Grp Cap(c), veh/h	194	806	802	40	652	667	333	0	558	587	0	498
V/C Ratio(X)	0.56	0.12	0.12	0.92	0.49	0.49	0.04	0.00	0.13	0.25	0.00	0.66
Avail Cap(c_a), veh/h	308	806	802	154	652	667	333	0	558	587	0	498
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.67	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	0.90	0.90	0.90	1.00	0.00	1.00	0.97	0.00	0.97
Uniform Delay (d), s/veh	39.9	15.2	15.3	44.9	9.3	9.3	25.8	0.0	23.4	16.8	0.0	19.2
Incr Delay (d2), s/veh	2.5	0.3	0.3	44.9	2.4	2.3	0.2	0.0	0.5	1.0	0.0	6.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	1.5	1.6	1.4	3.8	3.9	0.3	0.0	1.4	2.3	0.0	7.0
LnGrp Delay(d),s/veh	42.4	15.5	15.6	89.8	11.7	11.7	26.0	0.0	23.9	17.8	0.0	25.7
LnGrp LOS	D	B	B	F	B	B	C		C	B		C
Approach Vol, veh/h		303			686			84			476	
Approach Delay, s/veh		25.2			15.9			24.2			23.2	
Approach LOS		C			B			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.0	49.0		36.0	23.0	41.0		36.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	11.0	45.0		32.0	19.0	37.0		32.0
Max Q Clear Time (g_c+I1), s	4.9	6.0		17.0	8.4	10.2		8.0
Green Ext Time (p_c), s	0.2	1.2		2.2	0.3	4.3		2.5

Intersection Summary	
HCM 2010 Ctrl Delay	20.4
HCM 2010 LOS	C

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Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	0	0	0	13	23	10	3	107	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	15	27	12	3	124	0

Major/Minor	Minor1			Major1		
Conflicting Flow All	273	279	124	148	0	0
Stage 1	131	131	-	-	-	-
Stage 2	142	148	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	721	632	932	1446	-	-
Stage 1	900	792	-	-	-	-
Stage 2	890	779	-	-	-	-
Platoon blocked, %					-	
Mov Cap-1 Maneuver	720	0	932	1446	-	-
Mov Cap-2 Maneuver	720	0	-	-	-	-
Stage 1	898	0	-	-	-	-
Stage 2	890	0	-	-	-	-

Approach	WB	NB
HCM Control Delay, s	9.8	0.2
HCM LOS	A	

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1446	-	-	799	1475	-	-
HCM Lane V/C Ratio	0.002	-	-	0.067	-	-	-
HCM Control Delay (s)	7.5	0	-	9.8	0	-	-
HCM Lane LOS	A	A	-	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	118	9
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	86	86	86
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	137	10

Major/Minor	Major2		
Conflicting Flow All	124	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1475	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1475	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0
HCM LOS	

Minor Lane/Major Mvmt

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	8	148	20	54	588	14	6	33	63	6	52	31
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	9	170	23	62	676	16	7	38	72	7	60	36
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	37	924	123	149	1264	30	18	97	184	20	171	103
Arrive On Green	0.02	0.29	0.29	0.08	0.35	0.35	0.18	0.18	0.18	0.16	0.16	0.16
Sat Flow, veh/h	1810	3203	427	1810	3605	85	102	555	1052	121	1039	624
Grp Volume(v), veh/h	9	95	98	62	338	354	117	0	0	103	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1825	1810	1805	1885	1709	0	0	1784	0	0
Q Serve(g_s), s	0.5	3.8	3.9	3.2	14.5	14.5	5.9	0.0	0.0	5.0	0.0	0.0
Cycle Q Clear(g_c), s	0.5	3.8	3.9	3.2	14.5	14.5	5.9	0.0	0.0	5.0	0.0	0.0
Prop In Lane	1.00		0.23	1.00		0.05	0.06		0.62	0.07		0.35
Lane Grp Cap(c), veh/h	37	521	527	149	633	661	300	0	0	294	0	0
V/C Ratio(X)	0.24	0.18	0.19	0.42	0.53	0.54	0.39	0.00	0.00	0.35	0.00	0.00
Avail Cap(c_a), veh/h	93	521	527	205	633	661	300	0	0	294	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.75	0.75	0.75	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	46.8	25.9	25.9	42.3	25.2	25.2	35.4	0.0	0.0	35.9	0.0	0.0
Incr Delay (d2), s/veh	3.3	0.8	0.8	1.4	2.4	2.3	3.8	0.0	0.0	3.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.0	2.1	1.6	7.7	8.0	3.1	0.0	0.0	2.7	0.0	0.0
LnGrp Delay(d),s/veh	50.0	26.7	26.7	43.7	27.6	27.5	39.2	0.0	0.0	39.1	0.0	0.0
LnGrp LOS	D	C	C	D	C	C	D			D		
Approach Vol, veh/h		202			754			117			103	
Approach Delay, s/veh		27.7			28.9			39.2			39.1	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	35.0		23.0	9.0	44.0		24.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	14.0	31.0		19.0	8.0	37.0		20.0
Max Q Clear Time (g_c+I1), s	6.2	6.9		8.0	3.5	17.5		8.9
Green Ext Time (p_c), s	2.7	1.0		0.3	0.0	4.4		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	30.6
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	6.3								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	1	1	10	92	6	317	5	242	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	Yeild	-	-	None
Storage Length	-	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	1	11	105	7	360	6	275	0

Major/Minor	Minor2			Minor1			Major1		
Conflicting Flow All	685	681	395	687	683	275	397	0	0
Stage 1	395	395	-	286	286	-	-	-	-
Stage 2	290	286	-	401	397	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	365	375	659	364	374	769	1173	-	-
Stage 1	634	608	-	726	679	-	-	-	-
Stage 2	722	679	-	630	607	-	-	-	-
Platoon blocked, %									
Mov Cap-1 Maneuver	190	373	659	355	372	769	1173	-	-
Mov Cap-2 Maneuver	190	373	-	355	372	-	-	-	-
Stage 1	630	608	-	722	675	-	-	-	-
Stage 2	378	675	-	618	607	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	12.1	15.1	0.2
HCM LOS	B	C	

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1173	-	-	519	356	769	1300	-	-
HCM Lane V/C Ratio	0.005	-	-	0.026	0.313	0.468	-	-	-
HCM Control Delay (s)	8.1	0	-	12.1	19.6	13.7	0	-	-
HCM Lane LOS	A	A	-	B	C	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	1.3	2.5	0	-	-

Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	346	3
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	88	88	88
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	393	3

Major/Minor	Major2		
Conflicting Flow All	275	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1300	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1300	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0
HCM LOS	

Minor Lane/Major Mvmt

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Intersection						
Int Delay, s/veh	4					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	37	92	215	213	253	234
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	42	103	242	239	284	263

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1073	242	0	0	242	0
Stage 1	242	-	-	-	-	-
Stage 2	831	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	246	802	-	-	1336	-
Stage 1	803	-	-	-	-	-
Stage 2	431	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	194	802	-	-	1336	-
Mov Cap-2 Maneuver	194	-	-	-	-	-
Stage 1	803	-	-	-	-	-
Stage 2	339	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	15.4	0	4.4
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	194	802	1336	-
HCM Lane V/C Ratio	-	-	0.214	0.129	0.213	-
HCM Control Delay (s)	-	-	28.5	10.2	8.4	-
HCM Lane LOS	-	-	D	B	A	-
HCM 95th %tile Q(veh)	-	-	0.8	0.4	0.8	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	89	167	21	90	575	63	50	60	14	23	103	235
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	94	176	22	95	605	66	53	63	15	24	108	247
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	95	1497	185	97	780	85	184	362	86	55	142	294
Arrive On Green	0.05	0.46	0.46	0.05	0.46	0.46	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	1810	3235	399	1810	1684	184	411	1351	322	56	530	1097
Grp Volume(v), veh/h	94	97	101	95	0	671	53	0	78	379	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1830	1810	0	1868	411	0	1672	1683	0	0
Q Serve(g_s), s	5.0	3.0	3.0	5.1	0.0	29.2	0.0	0.0	3.5	8.5	0.0	0.0
Cycle Q Clear(g_c), s	5.0	3.0	3.0	5.1	0.0	29.2	19.6	0.0	3.5	20.6	0.0	0.0
Prop In Lane	1.00		0.22	1.00		0.10	1.00		0.19	0.06		0.65
Lane Grp Cap(c), veh/h	95	835	846	97	0	866	184	0	448	490	0	0
V/C Ratio(X)	0.99	0.12	0.12	0.98	0.00	0.78	0.29	0.00	0.17	0.77	0.00	0.00
Avail Cap(c_a), veh/h	149	835	846	205	0	866	184	0	448	490	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.99	0.00	0.99	1.00	0.00	0.00
Uniform Delay (d), s/veh	46.0	14.8	14.8	45.9	0.0	21.8	33.2	0.0	27.3	33.5	0.0	0.0
Incr Delay (d2), s/veh	57.7	0.3	0.3	38.7	0.0	6.7	3.9	0.0	0.8	11.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	1.6	1.6	3.6	0.0	16.5	1.5	0.0	1.7	11.1	0.0	0.0
LnGrp Delay(d),s/veh	103.7	15.1	15.1	84.6	0.0	28.5	37.1	0.0	28.1	44.8	0.0	0.0
LnGrp LOS	F	B	B	F		C	D		C	D		
Approach Vol, veh/h		292			766			131			379	
Approach Delay, s/veh		43.6			35.5			31.7			44.8	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.2	54.8		33.0	12.1	54.9		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	14.0	45.0		29.0	11.0	48.0		29.0
Max Q Clear Time (g_c+I1), s	8.1	6.0		23.6	8.0	32.2		22.6
Green Ext Time (p_c), s	0.1	7.1		1.6	0.0	5.3		1.8

Intersection Summary	
HCM 2010 Ctrl Delay	38.9
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	24	53	4	9	13	47	10	370	53	89	564	29
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	26	56	4	10	14	50	11	394	56	95	600	31
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	126	108	8	135	22	80	47	1647	737	377	2231	115
Arrive On Green	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.46	0.46	0.21	0.64	0.64
Sat Flow, veh/h	1359	1753	125	1364	365	1305	1810	3610	1615	1810	3493	180
Grp Volume(v), veh/h	26	0	60	10	0	64	11	394	56	95	310	321
Grp Sat Flow(s),veh/h/ln	1359	0	1878	1364	0	1670	1810	1805	1615	1810	1805	1868
Q Serve(g_s), s	1.5	0.0	2.4	0.5	0.0	2.9	0.5	5.1	1.5	3.4	5.7	5.8
Cycle Q Clear(g_c), s	4.3	0.0	2.4	2.9	0.0	2.9	0.5	5.1	1.5	3.4	5.7	5.8
Prop In Lane	1.00		0.07	1.00		0.78	1.00		1.00	1.00		0.10
Lane Grp Cap(c), veh/h	126	0	115	135	0	102	47	1647	737	377	1153	1193
V/C Ratio(X)	0.21	0.00	0.52	0.07	0.00	0.62	0.23	0.24	0.08	0.25	0.27	0.27
Avail Cap(c_a), veh/h	415	0	514	425	0	457	212	1647	737	543	1153	1193
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.97	0.97	0.97	0.59	0.59	0.59
Uniform Delay (d), s/veh	37.3	0.0	34.9	36.3	0.0	35.1	36.6	12.7	11.7	25.4	6.0	6.0
Incr Delay (d2), s/veh	0.8	0.0	3.6	0.2	0.0	6.1	2.4	0.3	0.2	0.2	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	1.3	0.2	0.0	1.5	0.3	2.6	0.7	1.7	2.9	3.1
LnGrp Delay(d),s/veh	38.0	0.0	38.5	36.6	0.0	41.2	39.0	13.1	11.9	25.6	6.4	6.4
LnGrp LOS	D		D	D		D	D	B	B	C	A	A
Approach Vol, veh/h		86			74			461			726	
Approach Delay, s/veh		38.4			40.6			13.5			8.9	
Approach LOS		D			D			B			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	46.3	42.0		11.7	32.3	56.0		11.7
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	26.0	38.0		24.0	12.0	52.0		24.0
Max Q Clear Time (g_c+I1), s	6.4	8.1		7.3	3.5	8.8		5.9
Green Ext Time (p_c), s	0.2	2.9		0.6	0.1	4.4		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	14.1
HCM 2010 LOS	B

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	33	187	0	7	628	152	3	2	1	253	10	46
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	40	225	0	8	757	183	4	2	1	305	12	55
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	309	1459	0	36	914	409	135	68	34	567	48	220
Arrive On Green	0.34	0.81	0.00	0.02	0.25	0.25	0.13	0.13	0.13	0.16	0.16	0.16
Sat Flow, veh/h	1810	3705	0	1810	3610	1615	1030	515	258	3510	297	1362
Grp Volume(v), veh/h	40	225	0	8	757	183	7	0	0	305	0	67
Grp Sat Flow(s),veh/h/ln	1810	1805	0	1810	1805	1615	1803	0	0	1755	0	1660
Q Serve(g_s), s	1.5	1.4	0.0	0.4	19.6	9.4	0.3	0.0	0.0	7.9	0.0	3.5
Cycle Q Clear(g_c), s	1.5	1.4	0.0	0.4	19.6	9.4	0.3	0.0	0.0	7.9	0.0	3.5
Prop In Lane	1.00		0.00	1.00		1.00	0.57		0.14	1.00		0.82
Lane Grp Cap(c), veh/h	309	1459	0	36	914	409	237	0	0	567	0	268
V/C Ratio(X)	0.13	0.15	0.00	0.22	0.83	0.45	0.03	0.00	0.00	0.54	0.00	0.25
Avail Cap(c_a), veh/h	309	1459	0	55	1313	587	237	0	0	567	0	268
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.99	0.00	0.99
Uniform Delay (d), s/veh	27.5	5.8	0.0	47.7	34.9	31.1	37.5	0.0	0.0	38.1	0.0	36.3
Incr Delay (d2), s/veh	0.2	0.2	0.0	3.0	3.1	0.8	0.2	0.0	0.0	3.6	0.0	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.7	0.0	0.2	10.2	4.3	0.2	0.0	0.0	4.1	0.0	1.8
LnGrp Delay(d),s/veh	27.7	6.0	0.0	50.7	38.0	31.9	37.7	0.0	0.0	41.7	0.0	38.4
LnGrp LOS	C	A		D	D	C	D			D		D
Approach Vol, veh/h		265			948			7			372	
Approach Delay, s/veh		9.3			36.9			37.7			41.1	
Approach LOS		A			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.0	47.0		23.0	24.9	32.1		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	6.0	43.0		19.0	10.0	39.0		16.0
Max Q Clear Time (g_c+I1), s	3.4	4.4		10.9	4.5	22.6		3.3
Green Ext Time (p_c), s	0.0	1.5		0.9	0.0	5.4		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.3
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	208	0	0	372	13	299	34	97	0	0	44
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	0	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	219	0	0	392	14	315	36	102	0	0	46
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	844	0	0	810	29	653	75	646	0	0	0
Arrive On Green	0.00	0.44	0.00	0.00	0.44	0.44	0.40	0.40	0.40	0.00	0.00	0.00
Sat Flow, veh/h	0	1900	0	0	1823	65	1632	187	1615		0	
Grp Volume(v), veh/h	0	219	0	0	0	406	351	0	102		0.0	
Grp Sat Flow(s),veh/h/ln	0	1900	0	0	0	1889	1818	0	1615			
Q Serve(g_s), s	0.0	6.5	0.0	0.0	0.0	13.7	12.9	0.0	3.6			
Cycle Q Clear(g_c), s	0.0	6.5	0.0	0.0	0.0	13.7	12.9	0.0	3.6			
Prop In Lane	0.00		0.00	0.00		0.03	0.90		1.00			
Lane Grp Cap(c), veh/h	0	844	0	0	0	839	727	0	646			
V/C Ratio(X)	0.00	0.26	0.00	0.00	0.00	0.48	0.48	0.00	0.16			
Avail Cap(c_a), veh/h	0	844	0	0	0	839	727	0	646			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	15.7	0.0	0.0	0.0	17.7	20.1	0.0	17.3			
Incr Delay (d2), s/veh	0.0	0.7	0.0	0.0	0.0	2.0	2.3	0.0	0.5			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	3.6	0.0	0.0	0.0	7.6	6.9	0.0	1.7			
LnGrp Delay(d),s/veh	0.0	16.4	0.0	0.0	0.0	19.7	22.4	0.0	17.8			
LnGrp LOS		B				B	C		B			
Approach Vol, veh/h		219			406			453				
Approach Delay, s/veh		16.4			19.7			21.3				
Approach LOS		B			B			C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		57.0				57.0		43.0
Change Period (Y+Rc), s		4.0				4.0		4.0
Max Green Setting (Gmax), s		43.0				43.0		39.0
Max Q Clear Time (g_c+I1), s		9.5				16.7		15.9
Green Ext Time (p_c), s		4.3				4.1		2.5

Intersection Summary	
HCM 2010 Ctrl Delay	19.7
HCM 2010 LOS	B

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Intersection									
Int Delay, s/veh	5.9								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	242	23	9	4	39	39	3	29	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	266	25	10	4	43	43	3	32	7

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	86	0	0	35	0	0	635	657	30
Stage 1	-	-	-	-	-	-	562	562	-
Stage 2	-	-	-	-	-	-	73	95	-
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3
Pot Cap-1 Maneuver	1523	-	-	1589	-	-	446	387	1050
Stage 1	-	-	-	-	-	-	575	513	-
Stage 2	-	-	-	-	-	-	955	820	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1523	-	-	1589	-	-	366	0	1050
Mov Cap-2 Maneuver	-	-	-	-	-	-	366	0	-
Stage 1	-	-	-	-	-	-	473	0	-
Stage 2	-	-	-	-	-	-	952	0	-

Approach	EB	WB	NB
HCM Control Delay, s	6.9	0.4	10.9
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	647	1523	-	-	1589	-	-
HCM Lane V/C Ratio	0.065	0.175	-	-	0.003	-	-
HCM Control Delay (s)	10.9	7.9	0	-	7.3	0	-
HCM Lane LOS	B	A	A	-	A	A	-
HCM 95th %tile Q(veh)	0.2	0.6	-	-	0	-	-

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Intersection			
Int Delay, s/veh			
Movement	SBL	SBT	SBR
Vol, veh/h	0	0	0
Conflicting Peds, #/hr	0	0	0
Sign Control	Stop	Stop	Stop
RT Channelized	-	-	None
Storage Length			
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	91	91	91
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	0	0
Major/Minor			
Conflicting Flow All			
Stage 1			
Stage 2			
Critical Hdwy			
Critical Hdwy Stg 1			
Critical Hdwy Stg 2			
Follow-up Hdwy			
Pot Cap-1 Maneuver			
Stage 1			
Stage 2			
Platoon blocked, %			
Mov Cap-1 Maneuver			
Mov Cap-2 Maneuver			
Stage 1			
Stage 2			
Approach			
HCM Control Delay, s			
HCM LOS			
Minor Lane/Major Mvmt			

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Intersection	
Intersection Delay, s/veh	10.7
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	214	33	0	26	61	0	0	41	0	77
Peak Hour Factor	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	228	35	0	28	65	0	0	44	0	82
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	11.2	9.4	9
HCM LOS	B	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	35%	0%	100%	0%	54%
Vol Thru, %	0%	87%	0%	100%	41%
Vol Right, %	65%	13%	0%	0%	6%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	118	247	26	61	264
LT Vol	0	214	0	61	107
Through Vol	77	33	0	0	15
RT Vol	41	0	26	0	142
Lane Flow Rate	126	263	28	65	281
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.174	0.369	0.049	0.107	0.393
Departure Headway (Hd)	4.98	5.163	6.426	5.919	5.043
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	724	702	560	608	705
Service Time	2.985	3.163	4.134	3.627	3.139
HCM Lane V/C Ratio	0.174	0.375	0.05	0.107	0.399
HCM Control Delay	9	11.2	9.5	9.3	11.4
HCM Lane LOS	A	B	A	A	B
HCM 95th-tile Q	0.6	1.7	0.2	0.4	1.9

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Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	142	107	15
Peak Hour Factor	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	151	114	16
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.4
HCM LOS	B

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	316	57	98	214	243	0	0	216	20
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				274	197	114	249	283	0	0	251	23
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				346	216	125	624	1220	0	0	717	65
Arrive On Green				0.19	0.19	0.19	0.34	0.64	0.00	0.00	0.21	0.21
Sat Flow, veh/h				1810	1130	654	1810	1900	0	0	3442	304
Grp Volume(v), veh/h				274	0	311	249	283	0	0	134	140
Grp Sat Flow(s),veh/h/ln				1810	0	1785	1810	1900	0	0	1805	1846
Q Serve(g_s), s				12.1	0.0	14.4	8.8	5.3	0.0	0.0	5.3	5.4
Cycle Q Clear(g_c), s				12.1	0.0	14.4	8.8	5.3	0.0	0.0	5.3	5.4
Prop In Lane				1.00		0.37	1.00		0.00	0.00		0.16
Lane Grp Cap(c), veh/h				346	0	341	624	1220	0	0	386	395
V/C Ratio(X)				0.79	0.00	0.91	0.40	0.23	0.00	0.00	0.35	0.35
Avail Cap(c_a), veh/h				689	0	679	624	1220	0	0	386	395
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				32.4	0.0	33.3	20.9	6.3	0.0	0.0	28.1	28.1
Incr Delay (d2), s/veh				4.1	0.0	9.5	1.9	0.4	0.0	0.0	2.5	2.5
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				6.4	0.0	8.0	4.7	2.9	0.0	0.0	2.9	3.0
LnGrp Delay(d),s/veh				36.5	0.0	42.8	22.8	6.8	0.0	0.0	30.5	30.5
LnGrp LOS				D		D	C	A			C	C
Approach Vol, veh/h					585			532			274	
Approach Delay, s/veh					39.9			14.3			30.5	
Approach LOS					D			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		76.9			51.9	25.0		23.1
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		57.0			32.0	21.0		35.0
Max Q Clear Time (g_c+I1), s		8.3			11.8	8.4		17.4
Green Ext Time (p_c), s		2.6			2.3	1.2		1.7

Intersection Summary	
HCM 2010 Ctrl Delay	28.2
HCM 2010 LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	91	236	82	6	19	31	10	330	361	101	332	63
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	97	251	87	6	20	33	11	351	384	107	353	67
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	367	288	100	122	406	345	22	1717	768	110	1590	299
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21	0.01	0.48	0.48	0.06	0.52	0.52
Sat Flow, veh/h	1373	1350	468	1059	1900	1615	1810	3610	1615	1810	3034	570
Grp Volume(v), veh/h	97	0	338	6	20	33	11	351	384	107	209	211
Grp Sat Flow(s),veh/h/ln	1373	0	1817	1059	1900	1615	1810	1805	1615	1810	1805	1799
Q Serve(g_s), s	5.1	0.0	15.1	0.5	0.7	1.4	0.5	4.7	13.7	5.0	5.2	5.3
Cycle Q Clear(g_c), s	5.8	0.0	15.1	15.5	0.7	1.4	0.5	4.7	13.7	5.0	5.2	5.3
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		0.32
Lane Grp Cap(c), veh/h	367	0	388	122	406	345	22	1717	768	110	946	943
V/C Ratio(X)	0.26	0.00	0.87	0.05	0.05	0.10	0.50	0.20	0.50	0.97	0.22	0.22
Avail Cap(c_a), veh/h	597	0	693	299	724	615	65	1717	768	302	946	943
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.79	0.79	0.79	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.5	0.0	31.9	39.4	26.2	26.5	41.2	12.8	15.2	39.4	10.8	10.8
Incr Delay (d2), s/veh	0.4	0.0	6.1	0.2	0.0	0.1	12.9	0.2	1.8	33.7	0.5	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.0	8.2	0.1	0.4	0.6	0.3	2.4	6.5	3.5	2.7	2.8
LnGrp Delay(d),s/veh	28.9	0.0	38.0	39.6	26.3	26.6	54.1	13.0	17.0	73.0	11.3	11.3
LnGrp LOS	C		D	D	C	C	D	B	B	E	B	B
Approach Vol, veh/h		435			59			746			527	
Approach Delay, s/veh		36.0			27.8			15.7			23.8	
Approach LOS		D			C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.1	63.0		24.9	24.1	51.0		24.9
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	17.0	36.0		35.0	6.0	47.0		35.0
Max Q Clear Time (g_c+I1), s	8.0	16.7		18.1	3.5	8.3		18.5
Green Ext Time (p_c), s	0.1	3.6		2.4	0.0	2.7		2.4

Intersection Summary	
HCM 2010 Ctrl Delay	23.5
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	355	638	18	16	133	31	16	104	28	34	68	204
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	394	709	20	18	148	34	18	116	31	38	76	227
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	686	1963	55	38	556	124	210	304	81	127	232	340
Arrive On Green	0.38	0.55	0.55	0.04	0.38	0.38	0.21	0.21	0.21	0.07	0.07	0.07
Sat Flow, veh/h	1810	3586	101	1810	2932	657	1093	1446	386	364	1102	1615
Grp Volume(v), veh/h	394	357	372	18	90	92	18	0	147	114	0	227
Grp Sat Flow(s),veh/h/ln	1810	1805	1882	1810	1805	1784	1093	0	1832	1467	0	1615
Q Serve(g_s), s	16.4	10.6	10.6	0.9	3.3	3.4	1.4	0.0	6.5	1.8	0.0	13.0
Cycle Q Clear(g_c), s	16.4	10.6	10.6	0.9	3.3	3.4	9.7	0.0	6.5	8.3	0.0	13.0
Prop In Lane	1.00		0.05	1.00		0.37	1.00		0.21	0.33		1.00
Lane Grp Cap(c), veh/h	686	988	1030	38	342	338	210	0	386	359	0	340
V/C Ratio(X)	0.57	0.36	0.36	0.47	0.26	0.27	0.09	0.00	0.38	0.32	0.00	0.67
Avail Cap(c_a), veh/h	781	988	1030	133	342	338	210	0	386	359	0	340
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	0.33	0.33	0.33
Upstream Filter(I)	1.00	1.00	1.00	0.99	0.99	0.99	1.00	0.00	1.00	0.99	0.00	0.99
Uniform Delay (d), s/veh	23.4	12.1	12.1	45.0	24.9	25.0	37.2	0.0	32.2	38.1	0.0	41.0
Incr Delay (d2), s/veh	0.8	1.0	1.0	8.8	1.9	2.0	0.8	0.0	2.8	2.3	0.0	9.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.4	5.5	5.8	0.5	1.8	1.9	0.5	0.0	3.6	3.1	0.0	6.8
LnGrp Delay(d),s/veh	24.2	13.2	13.1	53.8	26.8	26.9	38.0	0.0	35.0	40.4	0.0	50.8
LnGrp LOS	C	B	B	D	C	C	D		D	D		D
Approach Vol, veh/h		1123			200			165			341	
Approach Delay, s/veh		17.0			29.3			35.4			47.4	
Approach LOS		B			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	59.0		27.0	48.0	25.0		27.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	10.0	55.0		23.0	44.0	21.0		23.0
Max Q Clear Time (g_c+I1), s	3.9	13.6		16.0	19.4	6.4		12.7
Green Ext Time (p_c), s	0.7	5.2		1.4	1.3	0.8		1.8

Intersection Summary	
HCM 2010 Ctrl Delay	25.7
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	1.9								
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	0	0	0	8	26	13	23	170	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	8	27	14	24	179	0

Major/Minor	Minor1			Major1		
Conflicting Flow All	333	338	179	111	0	0
Stage 1	227	227	-	-	-	-
Stage 2	106	111	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	666	586	869	1492	-	-
Stage 1	815	720	-	-	-	-
Stage 2	923	807	-	-	-	-
Platoon blocked, %					-	-
Mov Cap-1 Maneuver	654	0	869	1492	-	-
Mov Cap-2 Maneuver	654	0	-	-	-	-
Stage 1	800	0	-	-	-	-
Stage 2	923	0	-	-	-	-

Approach	WB	NB
HCM Control Delay, s	10	0.9
HCM LOS	B	

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1492	-	-	772	1409	-	-
HCM Lane V/C Ratio	0.016	-	-	0.064	-	-	-
HCM Control Delay (s)	7.5	0	-	10	0	-	-
HCM Lane LOS	A	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	96	9
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	95	95	95
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	101	9

Major/Minor	Major2		
Conflicting Flow All	179	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1409	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1409	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0
HCM LOS	

Minor Lane/Major Mvmt

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	67	697	7	21	150	12	11	40	37	20	22	19
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	74	766	8	23	165	13	12	44	41	22	24	21
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	132	1373	14	38	1096	86	34	125	116	91	99	87
Arrive On Green	0.07	0.38	0.38	0.02	0.32	0.32	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1810	3660	38	1810	3393	265	217	797	743	582	635	556
Grp Volume(v), veh/h	74	378	396	23	87	91	97	0	0	67	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1893	1810	1805	1853	1758	0	0	1773	0	0
Q Serve(g_s), s	3.8	15.9	15.9	1.2	3.3	3.4	4.7	0.0	0.0	3.2	0.0	0.0
Cycle Q Clear(g_c), s	3.8	15.9	15.9	1.2	3.3	3.4	4.7	0.0	0.0	3.2	0.0	0.0
Prop In Lane	1.00		0.02	1.00		0.14	0.12		0.42	0.33		0.31
Lane Grp Cap(c), veh/h	132	677	710	38	583	598	275	0	0	277	0	0
V/C Ratio(X)	0.56	0.56	0.56	0.61	0.15	0.15	0.35	0.00	0.00	0.24	0.00	0.00
Avail Cap(c_a), veh/h	207	677	710	113	583	598	275	0	0	277	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.93	0.93	0.93	0.99	0.99	0.99	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	43.0	23.7	23.7	46.6	23.1	23.1	36.2	0.0	0.0	35.5	0.0	0.0
Incr Delay (d2), s/veh	3.4	3.1	2.9	14.9	0.5	0.5	3.5	0.0	0.0	2.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	8.4	8.8	0.8	1.7	1.8	2.6	0.0	0.0	1.7	0.0	0.0
LnGrp Delay(d),s/veh	46.5	26.8	26.6	61.5	23.7	23.7	39.7	0.0	0.0	37.6	0.0	0.0
LnGrp LOS	D	C	C	E	C	C	D			D		
Approach Vol, veh/h		848			201			97			67	
Approach Delay, s/veh		28.4			28.0			39.7			37.6	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	47.0		22.0	18.0	38.0		22.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	9.0	39.0		18.0	14.0	34.0		18.0
Max Q Clear Time (g_c+I1), s	4.2	18.9		6.2	6.8	6.4		7.7
Green Ext Time (p_c), s	0.0	5.1		0.2	2.9	1.0		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	29.8
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	41.6								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	2	3	22	252	11	146	4	258	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	Yeild	-	-	None
Storage Length	-	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	3	24	274	12	159	4	280	0

Major/Minor	Minor2			Minor1			Major1		
Conflicting Flow All	906	900	490	914	902	280	491	0	0
Stage 1	611	611	-	289	289	-	-	-	-
Stage 2	295	289	-	625	613	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	259	280	582	~ 256	280	764	1083	-	-
Stage 1	484	487	-	723	677	-	-	-	-
Stage 2	718	677	-	476	486	-	-	-	-
Platoon blocked, %								-	-
Mov Cap-1 Maneuver	188	261	582	~ 230	261	764	1083	-	-
Mov Cap-2 Maneuver	188	261	-	~ 230	261	-	-	-	-
Stage 1	482	455	-	720	674	-	-	-	-
Stage 2	557	674	-	424	454	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	13.5	120.5	0.1
HCM LOS	B	F	

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1083	-	-	451	231	764	1294	-	-
HCM Lane V/C Ratio	0.004	-	-	0.065	1.238	0.208	0.047	-	-
HCM Control Delay (s)	8.3	0	-	13.5	181.4	10.9	7.9	0	-
HCM Lane LOS	A	A	-	B	F	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	14.3	0.8	0.1	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

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Intersection			
Int Delay, s/veh			
Movement	SBL	SBT	SBR
Vol, veh/h	56	449	3
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	92	92	92
Heavy Vehicles, %	0	0	0
Mvmt Flow	61	488	3
Major/Minor	Major2		
Conflicting Flow All	280	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1294	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1294	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0.9
HCM LOS	

Minor Lane/Major Mvmt

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Intersection	
Int Delay, s/veh	8.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	80	180	135	243	369	348
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	87	196	147	264	401	378

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1327	147	0	0	147	0
Stage 1	147	-	-	-	-	-
Stage 2	1180	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	173	905	-	-	1447	-
Stage 1	885	-	-	-	-	-
Stage 2	295	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	125	905	-	-	1447	-
Mov Cap-2 Maneuver	125	-	-	-	-	-
Stage 1	885	-	-	-	-	-
Stage 2	213	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	32.3	0	4.3
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	125	905	1447	-
HCM Lane V/C Ratio	-	-	0.696	0.216	0.277	-
HCM Control Delay (s)	-	-	82.4	10.1	8.4	-
HCM Lane LOS	-	-	F	B	A	-
HCM 95th %tile Q(veh)	-	-	3.8	0.8	1.1	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	97	410	95	152	330	157	19	95	48	54	187	104
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	102	432	100	160	347	165	20	100	51	57	197	109
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	103	1099	252	161	498	237	125	588	302	105	315	161
Arrive On Green	0.06	0.38	0.38	0.09	0.41	0.41	0.31	0.31	0.31	0.31	0.31	0.31
Sat Flow, veh/h	1810	2917	670	1810	1218	579	249	1872	960	195	1002	513
Grp Volume(v), veh/h	102	266	266	160	0	512	88	0	83	363	0	0
Grp Sat Flow(s), veh/h/ln	1810	1805	1782	1810	0	1798	1522	0	1560	1710	0	0
Q Serve(g_s), s	5.4	10.3	10.4	8.4	0.0	22.5	0.0	0.0	3.7	9.5	0.0	0.0
Cycle Q Clear(g_c), s	5.4	10.3	10.4	8.4	0.0	22.5	3.2	0.0	3.7	17.3	0.0	0.0
Prop In Lane	1.00		0.38	1.00		0.32	0.23		0.62	0.16		0.30
Lane Grp Cap(c), veh/h	103	680	671	161	0	734	525	0	490	581	0	0
V/C Ratio(X)	0.99	0.39	0.40	0.99	0.00	0.70	0.17	0.00	0.17	0.62	0.00	0.00
Avail Cap(c_a), veh/h	190	680	671	303	0	734	525	0	490	581	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.96	0.00	0.96	1.00	0.00	0.00
Uniform Delay (d), s/veh	45.0	21.7	21.8	43.4	0.0	23.3	23.5	0.0	23.7	28.2	0.0	0.0
Incr Delay (d2), s/veh	43.1	1.7	1.7	34.4	0.0	5.4	0.7	0.0	0.7	5.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	5.4	5.4	5.7	0.0	12.2	1.8	0.0	1.7	9.1	0.0	0.0
LnGrp Delay(d),s/veh	88.0	23.4	23.5	77.9	0.0	28.8	24.2	0.0	24.4	33.3	0.0	0.0
LnGrp LOS	F	C	C	E		C	C		C	C		
Approach Vol, veh/h		634			672			171			363	
Approach Delay, s/veh		33.9			40.5			24.3			33.3	
Approach LOS		C			D			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.5	47.5		37.0	12.5	50.5		37.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	19.0	36.0		33.0	13.0	42.0		33.0
Max Q Clear Time (g_c+I1), s	11.4	13.4		20.3	8.4	25.5		6.7
Green Ext Time (p_c), s	0.2	7.2		2.7	0.1	6.3		3.6

Intersection Summary	
HCM 2010 Ctrl Delay	35.3
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	26	181	9	11	12	41	5	570	218	196	692	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	28	193	10	12	13	44	5	606	232	209	736	20
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	226	234	12	120	50	168	2	1762	788	216	2372	64
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.00	0.49	0.49	0.12	0.66	0.66
Sat Flow, veh/h	1368	1791	93	1198	381	1291	1810	3610	1615	1810	3590	98
Grp Volume(v), veh/h	28	0	203	12	0	57	5	606	232	209	370	386
Grp Sat Flow(s),veh/h/ln	1368	0	1884	1198	0	1672	1810	1805	1615	1810	1805	1883
Q Serve(g_s), s	1.5	0.0	8.4	0.8	0.0	2.5	0.1	8.3	6.9	9.2	7.0	7.0
Cycle Q Clear(g_c), s	4.0	0.0	8.4	9.2	0.0	2.5	0.1	8.3	6.9	9.2	7.0	7.0
Prop In Lane	1.00		0.05	1.00		0.77	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	226	0	246	120	0	218	2	1762	788	216	1192	1244
V/C Ratio(X)	0.12	0.00	0.83	0.10	0.00	0.26	2.22	0.34	0.29	0.97	0.31	0.31
Avail Cap(c_a), veh/h	423	0	517	292	0	459	90	1762	788	541	1192	1244
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.84	0.84	0.84	0.60	0.60	0.60
Uniform Delay (d), s/veh	33.2	0.0	34.0	38.5	0.0	31.4	40.1	12.6	12.3	35.2	5.8	5.8
Incr Delay (d2), s/veh	0.2	0.0	6.9	0.4	0.0	0.6	741.8	0.4	0.8	15.3	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	358.9	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	4.9	0.3	0.0	1.2	0.5	4.2	3.2	5.5	3.6	3.8
LnGrp Delay(d),s/veh	33.4	0.0	40.9	38.8	0.0	32.0	1140.8	13.1	13.1	50.5	6.2	6.2
LnGrp LOS	C		D	D		C	F	B	B	D	A	A
Approach Vol, veh/h		231			69			843			965	
Approach Delay, s/veh		40.0			33.2			19.8			15.8	
Approach LOS		D			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.6	65.9		17.5	22.5	60.0		17.5
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	27.0	36.0		25.0	7.0	56.0		25.0
Max Q Clear Time (g_c+I1), s	12.2	11.3		11.4	3.1	10.0		12.2
Green Ext Time (p_c), s	0.5	5.2		1.3	0.0	5.5		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	20.6
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	127	677	1	1	131	235	1	9	5	134	1	15
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	141	752	1	1	146	261	1	10	6	149	1	17
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	131	1640	2	2	1216	544	14	144	86	556	14	243
Arrive On Green	0.05	0.30	0.30	0.00	0.34	0.34	0.14	0.14	0.14	0.16	0.16	0.16
Sat Flow, veh/h	1810	3699	5	1810	3610	1615	105	1049	630	3510	90	1538
Grp Volume(v), veh/h	141	367	386	1	146	261	17	0	0	149	0	18
Grp Sat Flow(s),veh/h/ln	1810	1805	1899	1810	1805	1615	1784	0	0	1755	0	1629
Q Serve(g_s), s	6.8	15.7	15.7	0.1	2.6	12.1	0.8	0.0	0.0	3.5	0.0	0.9
Cycle Q Clear(g_c), s	6.8	15.7	15.7	0.1	2.6	12.1	0.8	0.0	0.0	3.5	0.0	0.9
Prop In Lane	1.00		0.00	1.00		1.00	0.06		0.35	1.00		0.94
Lane Grp Cap(c), veh/h	131	800	842	2	1216	544	245	0	0	556	0	258
V/C Ratio(X)	1.08	0.46	0.46	0.52	0.12	0.48	0.07	0.00	0.00	0.27	0.00	0.07
Avail Cap(c_a), veh/h	325	800	842	38	1216	544	245	0	0	556	0	258
HCM Platoon Ratio	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.87	0.87	0.87	1.00	1.00	1.00	1.00	0.00	0.00	0.97	0.00	0.97
Uniform Delay (d), s/veh	45.1	24.1	24.1	47.4	21.7	24.9	35.6	0.0	0.0	35.1	0.0	33.9
Incr Delay (d2), s/veh	57.2	1.6	1.6	136.7	0.0	0.7	0.5	0.0	0.0	1.1	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	8.2	8.6	0.1	1.3	5.5	0.4	0.0	0.0	1.8	0.0	0.4
LnGrp Delay(d),s/veh	102.3	25.7	25.6	184.0	21.8	25.5	36.2	0.0	0.0	36.2	0.0	34.4
LnGrp LOS	F	C	C	F	C	C	D			D		C
Approach Vol, veh/h		894			408			17			167	
Approach Delay, s/veh		37.7			24.6			36.2			36.0	
Approach LOS		D			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	49.0		22.0	13.8	44.2		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	5.0	45.0		18.0	20.0	30.0		16.0
Max Q Clear Time (g_c+I1), s	3.1	18.7		6.5	9.8	15.1		3.8
Green Ext Time (p_c), s	0.0	5.1		0.4	0.2	1.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.9
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	485	0	0	284	20	293	32	125	0	0	50
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	0	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	511	0	0	299	21	308	34	132	0	0	53
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	618	0	0	571	40	789	87	778	0	0	0
Arrive On Green	0.00	0.33	0.00	0.00	0.33	0.33	0.48	0.48	0.48	0.00	0.00	0.00
Sat Flow, veh/h	0	1900	0	0	1755	123	1637	181	1615		0	
Grp Volume(v), veh/h	0	511	0	0	0	320	342	0	132		0.0	
Grp Sat Flow(s),veh/h/ln	0	1900	0	0	0	1878	1818	0	1615			
Q Serve(g_s), s	0.0	18.0	0.0	0.0	0.0	10.1	8.7	0.0	3.3			
Cycle Q Clear(g_c), s	0.0	18.0	0.0	0.0	0.0	10.1	8.7	0.0	3.3			
Prop In Lane	0.00		0.00	0.00		0.07	0.90		1.00			
Lane Grp Cap(c), veh/h	0	618	0	0	0	611	876	0	778			
V/C Ratio(X)	0.00	0.83	0.00	0.00	0.00	0.52	0.39	0.00	0.17			
Avail Cap(c_a), veh/h	0	1073	0	0	0	1060	876	0	778			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	22.6	0.0	0.0	0.0	19.9	12.0	0.0	10.6			
Incr Delay (d2), s/veh	0.0	2.9	0.0	0.0	0.0	0.7	1.3	0.0	0.5			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	9.9	0.0	0.0	0.0	5.3	4.7	0.0	1.6			
LnGrp Delay(d),s/veh	0.0	25.5	0.0	0.0	0.0	20.6	13.3	0.0	11.1			
LnGrp LOS		C				C	B		B			
Approach Vol, veh/h		511			320			474				
Approach Delay, s/veh		25.5			20.6			12.7				
Approach LOS		C			C			B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		69.4		30.6				30.6
Change Period (Y+Rc), s		4.0		4.0				4.0
Max Green Setting (Gmax), s		38.0		44.0				44.0
Max Q Clear Time (g_c+I1), s		11.7		21.0				13.1
Green Ext Time (p_c), s		2.7		5.6				6.0

Intersection Summary	
HCM 2010 Ctrl Delay	19.7
HCM 2010 LOS	B

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Intersection									
Int Delay, s/veh	10.4								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	536	56	12	5	41	75	8	49	7
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	616	64	14	6	47	86	9	56	8

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	133	0	0	78	0	0	1405	1448	71
Stage 1	-	-	-	-	-	-	1303	1303	-
Stage 2	-	-	-	-	-	-	102	145	-
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3
Pot Cap-1 Maneuver	1464	-	-	1533	-	-	155	133	997
Stage 1	-	-	-	-	-	-	257	233	-
Stage 2	-	-	-	-	-	-	927	781	-
Platoon blocked, %		-	-						
Mov Cap-1 Maneuver	1464	-	-	1533	-	-	86	0	997
Mov Cap-2 Maneuver	-	-	-	-	-	-	86	0	-
Stage 1	-	-	-	-	-	-	144	0	-
Stage 2	-	-	-	-	-	-	923	0	-

Approach	EB	WB	NB
HCM Control Delay, s	8.2	0.3	50.1
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	150	1464	-	-	1533	-	-
HCM Lane V/C Ratio	0.49	0.421	-	-	0.004	-	-
HCM Control Delay (s)	50.1	9.2	0	-	7.4	0	-
HCM Lane LOS	F	A	A	-	A	A	-
HCM 95th %tile Q(veh)	2.3	2.1	-	-	0	-	-

Intersection			
Int Delay, s/veh			
Movement	SBL	SBT	SBR
Vol, veh/h	0	0	0
Conflicting Peds, #/hr	0	0	0
Sign Control	Stop	Stop	Stop
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	87	87	87
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	0	0
Major/Minor			
Conflicting Flow All			
Stage 1			
Stage 2			
Critical Hdwy			
Critical Hdwy Stg 1			
Critical Hdwy Stg 2			
Follow-up Hdwy			
Pot Cap-1 Maneuver			
Stage 1			
Stage 2			
Platoon blocked, %			
Mov Cap-1 Maneuver			
Mov Cap-2 Maneuver			
Stage 1			
Stage 2			
Approach			
HCM Control Delay, s			
HCM LOS			
Minor Lane/Major Mvmt			

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APPENDIX F

CUMULATIVE PROJECTS LIST

	Project Name	Approval ID	Project ID	Address	Development Type	Project Contact
1	Cesar Chavez Education Center	788543	221413	1901 Main St.	Coastal Development Permit to retroactively permit demolition already taken place + to constuct a 3 story continuing educational facility on a vacant 1.16 acre site at 1901 Main Street in the Redevelopment Subdistrict of Barrio Logan Planned District, Coastal Overlay (non-appealable), FAA Part 77, Transit Area. Council District 8. Notice Cards=2.	PJ Fitzgerald (619) 446-5107 pfitzgerald@sandiego.gov
2	COMM 22	454297	122002	2101 Commercial St.	Permit to construct 252 residential units (130 affordable family rental units, 70 affordable senior rental lofts, 35 market rate lofts, 17 for-sale townhomes) w/25,000 square feet commercial-retail on a 4.58 acre site at 2101 Commercial St within the Southeastern San Diego Community Plan, Transit Area. Council District 8. Notice Cards=3.	John Fisher (619) 446-5231 jsfisher@sandiego.gov www.comm22.org
3	Jack in the Box	1294028	366524	2890 National Ave.	Amend Site Development Permit and Planned Development Permit (Process 4) to construct a 2,588 sq ft Jack-in-the-Box drive-thru restaurant on a vacant building pad at 2890 National Ave. The 1.93 developed site is in the Southeastern San Diego Planned District-CSR-2 zone of the Southeastern San Diego Community Plan area; (PTS 1531 - SDP 9200 No. 9200 & PDP No. 9201.) Council 8. Notice Cards=3.	Renee Mezo (619) 446-5001 rmezo@sandiego.gov
4	Albert Einsten Academy	1100118	296407	446 26th St.	Amend CUP No. 266-PC to split ex two hospital bldgs and lot in half (total 2 CUP/SDP), 1 bldg to remain as hospital and other bldg to be converted into a middle school on a 2.85-acre site at 446 & 458 26th St in the MF-3000 Zone of the SESDPD within the SESD Community Plan, FAA Part 77 for SDIA & North Island NAS, Transit Area Overlay, CD 8, Notice Cards=3	Jeff Peterson (619) 446-5237 japeterson@sandiego.gov
5	Shipyard Sediment Remediation Project, San Diego Bay (North Sedimentation Remediation Area scheduled for completion in March 2016; South Sedimentation Remediation Area scheduled for completion in April 2014)			Eastern shore of central San Diego Bay, extending approximately from the Sampson Street extension on the northwest to Chollas Creek on the southeast, and from the shoreline out to the San Diego Bay main shipping channel to the west	Dredging of sediment adjacent to shipyards in the San Diego Bay; dewatering, solidification of the dredged material (onshore or on a barge); potential treatment of decanted water (anticipated disposal to the sanitary sewer system); and transport of the removed material to an appropriate landfill for disposal. This project was addressed in the Shipyard Sediment Remediation Project Environmental Impact Report. (http://www.waterboards.ca.gov/sandiego/water_issues/programs/shipyards_sediment/)	
6	San Diego Refrigerated Services at Tenth Avenue Marine Terminal			802 Terminal St.	New Lease Provisions: Project Trip Generation: 148 ADT, 24 a.m. peak-hour trips (16 in and 8 out), and 24 p.m. peak-hour trips (8 in and 16 out)	
7	Tenth Avenue Marine Terminal Redevelopment Plan			687 Switzer St.	The TAMT Redevelopment Plan "would replace an existing 2008 Maritime Business Plan to meet current and future market conditions at the terminal. Depending on market opportunities, some improvements identified in the Plan may occur within a 5- to 10-year (Year 2025) planning horizon, whereas others may not occur until the 10- to 20-year (Year 2035) planning horizon...One component of the project would be analyzed at the project level." This component is referred to as the "Demolition and Initial Rail Component." "The Demolition and Initial Rail Component is anticipated to occur in 2016...and will take approximately 29 weeks to complete...Total excavation would be 40,683 cy...approximately 12,443 cy would be exported off-site...Phasing would include demolition, grading, and phasing...Employment during construction is anticipated to result in...a total of 232 construction-related jobs."	

APPENDIX G

CUMULATIVE HCM WORKSHEETS

Intersection	
Intersection Delay, s/veh	15.1
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	106	9	0	49	118	0	0	14	0	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	115	10	0	53	128	0	0	15	0	40
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	10.3	10.6	8.7
HCM LOS	B	B	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	27%	0%	100%	0%	35%
Vol Thru, %	0%	92%	0%	100%	61%
Vol Right, %	73%	8%	0%	0%	4%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	51	115	49	118	475
LT Vol	14	0	49	0	165
Through Vol	0	106	0	118	291
RT Vol	37	9	0	0	19
Lane Flow Rate	55	125	53	128	516
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.08	0.201	0.099	0.221	0.697
Departure Headway (Hd)	5.195	5.802	6.717	6.209	4.962
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	691	621	536	581	733
Service Time	3.219	3.813	4.426	3.918	2.962
HCM Lane V/C Ratio	0.08	0.201	0.099	0.22	0.704
HCM Control Delay	8.7	10.3	10.2	10.7	18.6
HCM Lane LOS	A	B	B	B	C
HCM 95th-tile Q	0.3	0.7	0.3	0.8	5.7

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	165	291	19
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	179	316	21
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	18.6
HCM LOS	C

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	656	130	85	156	116	0	0	295	22
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				458	462	89	164	122	0	0	311	23
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				600	514	99	344	1004	0	0	915	67
Arrive On Green				0.33	0.33	0.33	0.19	0.53	0.00	0.00	0.27	0.27
Sat Flow, veh/h				1810	1549	298	1810	1900	0	0	3505	251
Grp Volume(v), veh/h				458	0	551	164	122	0	0	164	170
Grp Sat Flow(s),veh/h/ln				1810	0	1847	1810	1900	0	0	1805	1856
Q Serve(g_s), s				22.6	0.0	28.4	8.1	3.2	0.0	0.0	7.3	7.4
Cycle Q Clear(g_c), s				22.6	0.0	28.4	8.1	3.2	0.0	0.0	7.3	7.4
Prop In Lane				1.00		0.16	1.00		0.00	0.00		0.14
Lane Grp Cap(c), veh/h				600	0	613	344	1004	0	0	484	498
V/C Ratio(X)				0.76	0.00	0.90	0.48	0.12	0.00	0.00	0.34	0.34
Avail Cap(c_a), veh/h				796	0	813	344	1004	0	0	484	498
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				29.9	0.0	31.8	36.1	11.9	0.0	0.0	29.4	29.5
Incr Delay (d2), s/veh				3.1	0.0	10.5	4.7	0.2	0.0	0.0	1.9	1.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				11.8	0.0	16.2	4.5	1.8	0.0	0.0	3.9	4.0
LnGrp Delay(d),s/veh				33.0	0.0	42.3	40.8	12.1	0.0	0.0	31.3	31.3
LnGrp LOS				C		D	D	B			C	C
Approach Vol, veh/h					1009			286			334	
Approach Delay, s/veh					38.1			28.5			31.3	
Approach LOS					D			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		59.8			26.0	33.8		40.2
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		45.0			22.0	19.0		47.0
Max Q Clear Time (g_c+I1), s		6.2			11.1	10.4		31.4
Green Ext Time (p_c), s		2.9			0.3	1.7		4.8

Intersection Summary	
HCM 2010 Ctrl Delay	35.0
HCM 2010 LOS	D

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	72	113	125	19	26	23	22	212	151	111	690	101
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	77	120	133	20	28	24	23	226	161	118	734	107
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	294	143	159	110	330	281	319	1191	533	518	1392	203
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.33	0.33	0.29	0.44	0.44
Sat Flow, veh/h	1374	825	914	1144	1900	1615	1810	3610	1615	1810	3163	461
Grp Volume(v), veh/h	77	0	253	20	28	24	23	226	161	118	419	422
Grp Sat Flow(s),veh/h/ln	1374	0	1739	1144	1900	1615	1810	1805	1615	1810	1805	1819
Q Serve(g_s), s	5.0	0.0	14.1	1.7	1.2	1.2	1.1	4.5	7.4	5.0	16.9	16.9
Cycle Q Clear(g_c), s	6.2	0.0	14.1	15.8	1.2	1.2	1.1	4.5	7.4	5.0	16.9	16.9
Prop In Lane	1.00		0.53	1.00		1.00	1.00		1.00	1.00		0.25
Lane Grp Cap(c), veh/h	294	0	302	110	330	281	319	1191	533	518	794	800
V/C Ratio(X)	0.26	0.00	0.84	0.18	0.08	0.09	0.07	0.19	0.30	0.23	0.53	0.53
Avail Cap(c_a), veh/h	426	0	469	220	513	436	319	1191	533	518	794	800
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.3	0.0	40.0	47.6	34.6	34.7	34.4	23.9	24.9	27.2	20.4	20.4
Incr Delay (d2), s/veh	0.5	0.0	7.7	0.8	0.1	0.1	0.1	0.3	1.4	0.2	2.5	2.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	7.4	0.6	0.7	0.6	0.5	2.3	3.5	2.5	8.9	9.0
LnGrp Delay(d),s/veh	37.7	0.0	47.7	48.4	34.8	34.8	34.5	24.3	26.3	27.5	22.9	22.9
LnGrp LOS	D		D	D	C	C	C	C	C	C	C	C
Approach Vol, veh/h		330			72			410			959	
Approach Delay, s/veh		45.3			38.5			25.7			23.5	
Approach LOS		D			D			C			C	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.6	40.0		24.4	24.6	51.0		24.4				
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0				
Max Green Setting (Gma	22.6	36.0		30.0	11.0	47.0		30.0				
Max Q Clear Time (g_c+I1	8.6	10.4		17.1	4.1	19.9		18.8				
Green Ext Time (p_c), s	0.3	2.0		1.7	0.2	6.0		1.6				
Intersection Summary												
HCM 2010 Ctrl Delay			28.7									
HCM 2010 LOS			C									

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	109	180	89	123	638	56	12	52	24	54	201	307
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	121	200	99	137	709	62	13	58	27	60	223	341
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	271	1055	502	137	1243	109	174	331	154	123	399	436
Arrive On Green	0.15	0.44	0.44	0.10	0.49	0.49	0.27	0.27	0.27	0.09	0.09	0.09
Sat Flow, veh/h	1810	2375	1131	1810	3360	294	860	1228	571	296	1479	1615
Grp Volume(v), veh/h	121	150	149	137	381	390	13	0	85	283	0	341
Grp Sat Flow(s), veh/h/ln	1810	1805	1700	1810	1805	1848	860	0	1799	1774	0	1615
Q Serve(g_s), s	6.1	5.0	5.3	7.6	14.9	14.9	1.4	0.0	3.6	9.7	0.0	20.7
Cycle Q Clear(g_c), s	6.1	5.0	5.3	7.6	14.9	14.9	16.5	0.0	3.6	15.1	0.0	20.7
Prop In Lane	1.00		0.66	1.00		0.16	1.00		0.32	0.21		1.00
Lane Grp Cap(c), veh/h	271	802	755	137	668	684	174	0	486	523	0	436
V/C Ratio(X)	0.45	0.19	0.20	1.00	0.57	0.57	0.07	0.00	0.17	0.54	0.00	0.78
Avail Cap(c_a), veh/h	271	802	755	145	668	684	174	0	486	523	0	436
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00	0.33	0.33	0.33
Upstream Filter(I)	1.00	1.00	1.00	0.83	0.83	0.83	1.00	0.00	1.00	0.94	0.00	0.94
Uniform Delay (d), s/veh	38.7	16.8	16.9	45.0	19.8	19.8	39.4	0.0	28.0	40.0	0.0	42.7
Incr Delay (d2), s/veh	1.1	0.5	0.6	66.7	2.9	2.9	0.8	0.0	0.8	3.8	0.0	12.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	3.1	2.6	2.6	6.3	7.9	8.1	0.4	0.0	1.9	8.1	0.0	10.8
LnGrp Delay(d),s/veh	39.9	17.4	17.5	111.6	22.7	22.7	40.2	0.0	28.8	43.8	0.0	55.1
LnGrp LOS	D	B	B	F	C	C	D		C	D		E
Approach Vol, veh/h		420			908			98			624	
Approach Delay, s/veh		23.9			36.1			30.3			49.9	
Approach LOS		C			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.6	51.4		34.0	22.0	44.0		34.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	11.6	47.0		30.0	18.0	40.0		30.0
Max Q Clear Time (g_c+I1), s	10.6	8.3		23.7	9.1	17.9		19.5
Green Ext Time (p_c), s	0.0	2.3		2.0	1.4	5.0		2.7

Intersection Summary		
HCM 2010 Ctrl Delay	37.5	
HCM 2010 LOS	D	

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Intersection												
Int Delay, s/veh	1.5											

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	0	0	13	24	10	3	118	0	0	169	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	15	28	12	3	137	0	0	197	10

Major/Minor	Minor1			Major1			Major2		
Conflicting Flow All	346	351	137	207	0	0	137	0	0
Stage 1	144	144	-	-	-	-	-	-	-
Stage 2	202	207	-	-	-	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	655	577	917	1376	-	-	1459	-	-
Stage 1	888	782	-	-	-	-	-	-	-
Stage 2	837	734	-	-	-	-	-	-	-
Platoon blocked, %					-	-		-	-
Mov Cap-1 Maneuver	654	0	917	1376	-	-	1459	-	-
Mov Cap-2 Maneuver	654	0	-	-	-	-	-	-	-
Stage 1	886	0	-	-	-	-	-	-	-
Stage 2	837	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10.2	0.2	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1376	-	-	747	1459	-	-
HCM Lane V/C Ratio	0.003	-	-	0.073	-	-	-
HCM Control Delay (s)	7.6	0	-	10.2	0	-	-
HCM Lane LOS	A	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	8	204	21	56	764	18	6	34	65	7	54	56
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	9	234	24	64	878	21	7	39	75	8	62	64
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	36	1026	104	199	1441	34	15	83	159	16	121	125
Arrive On Green	0.02	0.31	0.31	0.11	0.40	0.40	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	1810	3309	336	1810	3604	86	99	551	1059	104	809	835
Grp Volume(v), veh/h	9	127	131	64	440	459	121	0	0	134	0	0
Grp Sat Flow(s), veh/h/ln	1810	1805	1841	1810	1805	1885	1708	0	0	1747	0	0
Q Serve(g_s), s	0.5	5.2	5.3	3.3	19.3	19.3	6.5	0.0	0.0	7.1	0.0	0.0
Cycle Q Clear(g_c), s	0.5	5.2	5.3	3.3	19.3	19.3	6.5	0.0	0.0	7.1	0.0	0.0
Prop In Lane	1.00		0.18	1.00		0.05	0.06		0.62	0.06		0.48
Lane Grp Cap(c), veh/h	36	560	571	199	722	754	256	0	0	262	0	0
V/C Ratio(X)	0.25	0.23	0.23	0.32	0.61	0.61	0.47	0.00	0.00	0.51	0.00	0.00
Avail Cap(c_a), veh/h	54	560	571	199	722	754	256	0	0	262	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.99	0.63	0.63	0.63	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	48.3	25.6	25.6	41.1	23.8	23.8	38.9	0.0	0.0	39.1	0.0	0.0
Incr Delay (d2), s/veh	3.5	0.9	0.9	0.6	2.4	2.3	6.1	0.0	0.0	7.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.7	2.8	1.7	10.1	10.6	3.5	0.0	0.0	3.9	0.0	0.0
LnGrp Delay(d),s/veh	51.7	26.5	26.6	41.6	26.2	26.1	45.0	0.0	0.0	46.1	0.0	0.0
LnGrp LOS	D	C	C	D	C	C	D			D		
Approach Vol, veh/h		267			963			121			134	
Approach Delay, s/veh		27.4			27.2			45.0			46.1	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	38.0		22.0	9.0	47.0		22.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	14.0	34.0		18.0	6.0	42.0		18.0
Max Q Clear Time (g_c+I1), s	6.3	8.3		10.1	3.5	22.3		9.5
Green Ext Time (p_c), s	3.5	1.5		0.4	0.0	6.0		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	30.4
HCM 2010 LOS	C

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Intersection	
Int Delay, s/veh	6.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	1	1	10	104	6	327	5	264	56	0	374	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	25	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	1	11	118	7	372	6	300	64	0	425	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	774	802	427	776	771	332	428	0	0	364	0	0
Stage 1	427	427	-	343	343	-	-	-	-	-	-	-
Stage 2	347	375	-	433	428	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	318	320	632	317	333	714	1142	-	-	1206	-	-
Stage 1	610	589	-	676	641	-	-	-	-	-	-	-
Stage 2	673	621	-	605	588	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	149	318	632	309	331	714	1142	-	-	1206	-	-
Mov Cap-2 Maneuver	149	318	-	309	331	-	-	-	-	-	-	-
Stage 1	606	589	-	671	637	-	-	-	-	-	-	-
Stage 2	317	617	-	593	588	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	12.9	17.6	0.1	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1142	-	-	467	310	714	1206	-	-
HCM Lane V/C Ratio	0.005	-	-	0.029	0.403	0.52	-	-	-
HCM Control Delay (s)	8.2	0	-	12.9	24.2	15.4	0	-	-
HCM Lane LOS	A	A	-	B	C	C	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	1.9	3	0	-	-

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Intersection						
Int Delay, s/veh	4					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	38	95	236	226	261	268
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	43	107	265	254	293	301

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1153	265	0	0	265	0
Stage 1	265	-	-	-	-	-
Stage 2	888	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	220	779	-	-	1311	-
Stage 1	784	-	-	-	-	-
Stage 2	405	-	-	-	-	-
Platoon blocked, %						-
Mov Cap-1 Maneuver	171	779	-	-	1311	-
Mov Cap-2 Maneuver	171	-	-	-	-	-
Stage 1	784	-	-	-	-	-
Stage 2	314	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	16.8	0	4.2
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	171	779	1311	-
HCM Lane V/C Ratio	-	-	0.25	0.137	0.224	-
HCM Control Delay (s)	-	-	32.9	10.4	8.5	-
HCM Lane LOS	-	-	D	B	A	-
HCM 95th %tile Q(veh)	-	-	0.9	0.5	0.9	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	92	172	22	221	592	77	53	62	31	36	106	242
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	97	181	23	233	623	81	56	65	33	38	112	255
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	98	1287	161	238	784	102	175	289	156	66	134	273
Arrive On Green	0.05	0.40	0.40	0.13	0.48	0.48	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h	1810	3229	405	1810	1648	214	414	1111	601	102	517	1051
Grp Volume(v), veh/h	97	100	104	233	0	704	65	0	89	405	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1829	1810	0	1862	503	0	1623	1670	0	0
Q Serve(g_s), s	5.4	3.5	3.6	12.8	0.0	31.9	0.0	0.0	4.3	14.7	0.0	0.0
Cycle Q Clear(g_c), s	5.4	3.5	3.6	12.8	0.0	31.9	12.1	0.0	4.3	23.7	0.0	0.0
Prop In Lane	1.00		0.22	1.00		0.12	0.86		0.37	0.09		0.63
Lane Grp Cap(c), veh/h	98	720	729	238	0	886	198	0	422	473	0	0
V/C Ratio(X)	0.99	0.14	0.14	0.98	0.00	0.79	0.33	0.00	0.21	0.86	0.00	0.00
Avail Cap(c_a), veh/h	145	720	729	326	0	886	198	0	422	473	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.99	0.00	0.99	1.00	0.00	0.00
Uniform Delay (d), s/veh	47.3	19.1	19.2	43.3	0.0	22.1	31.4	0.0	29.0	36.0	0.0	0.0
Incr Delay (d2), s/veh	61.2	0.4	0.4	38.8	0.0	7.3	4.3	0.0	1.1	17.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	1.8	1.9	9.0	0.0	18.0	1.8	0.0	2.1	13.2	0.0	0.0
LnGrp Delay(d),s/veh	108.5	19.5	19.6	82.1	0.0	29.3	35.8	0.0	30.1	53.7	0.0	0.0
LnGrp LOS	F	B	B	F		C	D		C	D		
Approach Vol, veh/h		301			937			154			405	
Approach Delay, s/veh		48.2			42.5			32.5			53.7	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.1	46.9		33.0	12.4	54.6		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	21.0	38.0		29.0	11.0	48.0		29.0
Max Q Clear Time (g_c+I1), s	15.8	6.6		26.7	8.4	34.9		15.1
Green Ext Time (p_c), s	0.3	7.3		0.9	0.0	5.1		3.2

Intersection Summary	
HCM 2010 Ctrl Delay	45.1
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	25	82	4	9	13	48	10	399	84	92	723	30
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	27	87	4	10	14	51	11	424	89	98	769	32
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	108	117	5	95	23	85	371	1336	598	643	1837	76
Arrive On Green	0.06	0.06	0.06	0.06	0.06	0.06	0.21	0.37	0.37	0.36	0.52	0.52
Sat Flow, veh/h	1358	1803	83	1326	359	1309	1810	3610	1615	1810	3532	147
Grp Volume(v), veh/h	27	0	91	10	0	65	11	424	89	98	393	408
Grp Sat Flow(s),veh/h/ln	1358	0	1885	1326	0	1669	1810	1805	1615	1810	1805	1874
Q Serve(g_s), s	2.0	0.0	4.7	0.7	0.0	3.8	0.5	8.4	3.7	3.7	13.4	13.4
Cycle Q Clear(g_c), s	5.8	0.0	4.7	5.5	0.0	3.8	0.5	8.4	3.7	3.7	13.4	13.4
Prop In Lane	1.00		0.04	1.00		0.78	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	108	0	122	95	0	108	371	1336	598	643	939	975
V/C Ratio(X)	0.25	0.00	0.75	0.11	0.00	0.60	0.03	0.32	0.15	0.15	0.42	0.42
Avail Cap(c_a), veh/h	292	0	377	274	0	334	371	1336	598	643	939	975
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.91	0.91	0.91	0.42	0.42	0.42
Uniform Delay (d), s/veh	48.3	0.0	46.0	48.6	0.0	45.5	31.8	22.5	21.0	22.0	14.7	14.7
Incr Delay (d2), s/veh	1.2	0.0	8.7	0.5	0.0	5.3	0.0	0.6	0.5	0.0	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	2.8	0.3	0.0	1.9	0.2	4.3	1.7	1.9	6.8	7.1
LnGrp Delay(d),s/veh	49.5	0.0	54.6	49.1	0.0	50.8	31.8	23.1	21.5	22.0	15.3	15.3
LnGrp LOS	D		D	D		D	C	C	C	C	B	B
Approach Vol, veh/h		118			75			524			899	
Approach Delay, s/veh		53.4			50.6			23.0			16.0	
Approach LOS		D			D			C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.5	44.0		13.5	27.5	59.0		13.5
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	8.5	40.0		23.0	10.0	55.0		23.0
Max Q Clear Time (g_c+I1), s	6.7	11.4		8.8	3.5	16.4		8.5
Green Ext Time (p_c), s	0.2	3.3		0.8	0.1	5.9		0.8

Intersection Summary	
HCM 2010 Ctrl Delay	22.6
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	84	196	0	7	679	157	3	2	1	261	10	177
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	101	236	0	8	818	189	4	2	1	314	12	213
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	318	1480	0	54	953	427	134	67	33	527	13	231
Arrive On Green	0.35	0.82	0.00	0.03	0.26	0.26	0.13	0.13	0.13	0.15	0.15	0.15
Sat Flow, veh/h	1810	3705	0	1810	3610	1615	1030	515	258	3510	87	1541
Grp Volume(v), veh/h	101	236	0	8	818	189	7	0	0	314	0	225
Grp Sat Flow(s),veh/h/ln	1810	1805	0	1810	1805	1615	1803	0	0	1755	0	1628
Q Serve(g_s), s	4.1	1.4	0.0	0.4	21.6	9.8	0.3	0.0	0.0	8.3	0.0	13.6
Cycle Q Clear(g_c), s	4.1	1.4	0.0	0.4	21.6	9.8	0.3	0.0	0.0	8.3	0.0	13.6
Prop In Lane	1.00		0.00	1.00		1.00	0.57		0.14	1.00		0.95
Lane Grp Cap(c), veh/h	318	1480	0	54	953	427	234	0	0	527	0	244
V/C Ratio(X)	0.32	0.16	0.00	0.15	0.86	0.44	0.03	0.00	0.00	0.60	0.00	0.92
Avail Cap(c_a), veh/h	318	1480	0	54	1191	533	234	0	0	527	0	244
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.97	0.00	0.97
Uniform Delay (d), s/veh	28.0	5.4	0.0	47.3	35.0	30.7	38.0	0.0	0.0	39.7	0.0	41.9
Incr Delay (d2), s/veh	0.6	0.2	0.0	1.2	5.4	0.7	0.2	0.0	0.0	4.8	0.0	39.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	0.7	0.0	0.2	11.4	4.4	0.2	0.0	0.0	4.4	0.0	8.8
LnGrp Delay(d),s/veh	28.6	5.7	0.0	48.5	40.4	31.4	38.2	0.0	0.0	44.5	0.0	81.5
LnGrp LOS	C	A		D	D	C	D			D		F
Approach Vol, veh/h		337			1015			7			539	
Approach Delay, s/veh		12.5			38.8			38.2			59.9	
Approach LOS		B			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.0	48.0		22.0	24.6	33.4		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	6.0	44.0		18.0	14.0	36.0		16.0
Max Q Clear Time (g_c+I1), s	3.4	4.4		16.6	7.1	24.6		3.3
Green Ext Time (p_c), s	0.0	1.6		0.4	0.1	4.8		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	40.1
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	238	22	0	406	13	424	35	100	0	0	45
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	251	23	0	427	14	446	37	105	0	0	47
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	823	75	0	878	29	637	53	614	0	0	0
Arrive On Green	0.00	0.48	0.48	0.00	0.48	0.48	0.38	0.38	0.38	0.00	0.00	0.00
Sat Flow, veh/h	0	1715	157	0	1829	60	1677	139	1615		0	
Grp Volume(v), veh/h	0	0	274	0	0	441	483	0	105		0.0	
Grp Sat Flow(s),veh/h/ln	0	0	1872	0	0	1889	1816	0	1615			
Q Serve(g_s), s	0.0	0.0	8.9	0.0	0.0	15.8	22.5	0.0	4.3			
Cycle Q Clear(g_c), s	0.0	0.0	8.9	0.0	0.0	15.8	22.5	0.0	4.3			
Prop In Lane	0.00		0.08	0.00		0.03	0.92		1.00			
Lane Grp Cap(c), veh/h	0	0	899	0	0	907	690	0	614			
V/C Ratio(X)	0.00	0.00	0.30	0.00	0.00	0.49	0.70	0.00	0.17			
Avail Cap(c_a), veh/h	0	0	899	0	0	907	690	0	614			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	15.8	0.0	0.0	17.6	26.2	0.0	20.6			
Incr Delay (d2), s/veh	0.0	0.0	0.9	0.0	0.0	1.9	5.8	0.0	0.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	0.0	4.8	0.0	0.0	8.7	12.4	0.0	2.0			
LnGrp Delay(d),s/veh	0.0	0.0	16.7	0.0	0.0	19.5	32.0	0.0	21.2			
LnGrp LOS			B			B	C		C			
Approach Vol, veh/h		274			441			588				
Approach Delay, s/veh		16.7			19.5			30.1				
Approach LOS		B			B			C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		55.0				55.0		45.0
Change Period (Y+Rc), s		4.0				4.0		4.0
Max Green Setting (Gmax), s		41.0				41.0		41.0
Max Q Clear Time (g_c+I1), s		11.9				18.8		25.5
Green Ext Time (p_c), s		4.9				4.6		3.2

Intersection Summary	
HCM 2010 Ctrl Delay	23.7
HCM 2010 LOS	C

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Intersection												
Int Delay, s/veh	6.5											

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	321	24	9	4	40	40	3	30	6	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	353	26	10	4	44	44	3	33	7	0	0	0

Major/Minor	Major1			Major2			Minor1					
Conflicting Flow All	88	0	0	36	0	0	812	834	31			
Stage 1	-	-	-	-	-	-	737	737	-			
Stage 2	-	-	-	-	-	-	75	97	-			
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2			
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-			
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-			
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3			
Pot Cap-1 Maneuver	1520	-	-	1588	-	-	351	306	1049			
Stage 1	-	-	-	-	-	-	477	428	-			
Stage 2	-	-	-	-	-	-	953	819	-			
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	1520	-	-	1588	-	-	267	0	1049			
Mov Cap-2 Maneuver	-	-	-	-	-	-	267	0	-			
Stage 1	-	-	-	-	-	-	364	0	-			
Stage 2	-	-	-	-	-	-	950	0	-			

Approach	EB	WB	NB
HCM Control Delay, s	7.3	0.3	12.4
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	531	1520	-	-	1588	-	-
HCM Lane V/C Ratio	0.081	0.232	-	-	0.003	-	-
HCM Control Delay (s)	12.4	8.1	0	-	7.3	0	-
HCM Lane LOS	B	A	A	-	A	A	-
HCM 95th %tile Q(veh)	0.3	0.9	-	-	0	-	-

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Intersection	
Intersection Delay, s/veh	11.5
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	220	34	0	27	63	0	0	42	0	79
Peak Hour Factor	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	234	36	0	29	67	0	0	45	0	84
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	11.8	9.6	9.3
HCM LOS	B	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	35%	0%	100%	0%	54%
Vol Thru, %	0%	87%	0%	100%	41%
Vol Right, %	65%	13%	0%	0%	5%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	121	254	27	63	302
LT Vol	42	0	27	0	162
Through Vol	0	220	0	63	125
RT Vol	79	34	0	0	15
Lane Flow Rate	129	270	29	67	321
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.183	0.398	0.053	0.113	0.464
Departure Headway (Hd)	5.108	5.297	6.595	6.087	5.197
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	702	681	543	588	694
Service Time	3.144	3.328	4.334	3.826	3.227
HCM Lane V/C Ratio	0.184	0.396	0.053	0.114	0.463
HCM Control Delay	9.3	11.8	9.7	9.6	12.7
HCM Lane LOS	A	B	A	A	B
HCM 95th-tile Q	0.7	1.9	0.2	0.4	2.5

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Intersection				
Intersection Delay, s/veh				
Intersection LOS				

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	162	125	15
Peak Hour Factor	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	172	133	16
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	12.7
HCM LOS	B

Lane



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	355	59	138	315	285	0	0	265	21
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				321	198	160	366	331	0	0	308	24
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				409	220	178	694	1204	0	0	611	47
Arrive On Green				0.23	0.23	0.23	0.38	0.63	0.00	0.00	0.18	0.18
Sat Flow, veh/h				1810	974	787	1810	1900	0	0	3490	263
Grp Volume(v), veh/h				321	0	358	366	331	0	0	163	169
Grp Sat Flow(s), veh/h/ln				1810	0	1761	1810	1900	0	0	1805	1854
Q Serve(g_s), s				16.7	0.0	19.7	15.6	7.7	0.0	0.0	8.1	8.2
Cycle Q Clear(g_c), s				16.7	0.0	19.7	15.6	7.7	0.0	0.0	8.1	8.2
Prop In Lane				1.00		0.45	1.00		0.00	0.00		0.14
Lane Grp Cap(c), veh/h				409	0	398	694	1204	0	0	325	334
V/C Ratio(X)				0.78	0.00	0.90	0.53	0.27	0.00	0.00	0.50	0.51
Avail Cap(c_a), veh/h				615	0	599	694	1204	0	0	325	334
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				36.4	0.0	37.6	23.8	8.1	0.0	0.0	37.0	37.0
Incr Delay (d2), s/veh				3.8	0.0	11.8	2.8	0.6	0.0	0.0	5.4	5.4
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln				8.7	0.0	10.8	8.4	4.2	0.0	0.0	4.6	4.7
LnGrp Delay(d),s/veh				40.2	0.0	49.3	26.6	8.7	0.0	0.0	42.4	42.4
LnGrp LOS				D		D	C	A			D	D
Approach Vol, veh/h					679			697			332	
Approach Delay, s/veh					45.0			18.1			42.4	
Approach LOS					D			B			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		70.4			45.4	25.0		29.6
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		55.0			30.0	21.0		37.0
Max Q Clear Time (g_c+I1), s		10.7			18.6	11.2		22.7
Green Ext Time (p_c), s		3.4			2.5	1.3		2.9

Intersection Summary		
HCM 2010 Ctrl Delay		33.5
HCM 2010 LOS		C

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	94	243	100	6	20	32	10	469	413	132	387	65
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	100	259	106	6	21	34	11	499	439	140	412	69
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	368	288	118	101	426	362	227	1756	785	143	1363	227
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22	0.13	0.49	0.49	0.08	0.44	0.44
Sat Flow, veh/h	1370	1282	525	1033	1900	1615	1810	3610	1615	1810	3099	515
Grp Volume(v), veh/h	100	0	365	6	21	34	11	499	439	140	239	242
Grp Sat Flow(s), veh/h/ln	1370	0	1807	1033	1900	1615	1810	1805	1615	1810	1805	1809
Q Serve(g_s), s	6.2	0.0	19.6	0.6	0.9	1.7	0.5	8.2	19.2	7.7	8.5	8.7
Cycle Q Clear(g_c), s	7.0	0.0	19.6	20.2	0.9	1.7	0.5	8.2	19.2	7.7	8.5	8.7
Prop In Lane	1.00		0.29	1.00		1.00	1.00		1.00	1.00		0.28
Lane Grp Cap(c), veh/h	368	0	406	101	426	362	227	1756	785	143	794	796
V/C Ratio(X)	0.27	0.00	0.90	0.06	0.05	0.09	0.05	0.28	0.56	0.98	0.30	0.30
Avail Cap(c_a), veh/h	499	0	578	200	608	517	227	1756	785	290	794	796
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.67	0.67	0.67	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.2	0.0	37.7	47.5	30.4	30.7	38.5	15.3	18.1	45.9	18.1	18.1
Incr Delay (d2), s/veh	0.4	0.0	13.0	0.2	0.0	0.1	0.1	0.3	1.9	29.6	1.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	11.2	0.2	0.5	0.8	0.3	4.2	9.0	5.0	4.5	4.5
LnGrp Delay(d),s/veh	33.6	0.0	50.7	47.7	30.5	30.8	38.5	15.6	20.1	75.5	19.0	19.1
LnGrp LOS	C		D	D	C	C	D	B	C	E	B	B
Approach Vol, veh/h		465			61			949			621	
Approach Delay, s/veh		47.0			32.4			17.9			31.8	
Approach LOS		D			C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.9	55.6		29.4	19.6	51.0		29.4
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	10.9	34.0		35.0	6.0	47.0		35.0
Max Q Clear Time (g_c+I1), s	10.7	22.2		22.6	3.5	11.7		23.2
Green Ext Time (p_c), s	0.2	4.0		2.3	0.0	3.2		2.2

Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	371	745	20	21	167	35	40	243	118	59	75	214
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	412	828	22	23	186	39	44	270	131	66	83	238
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	597	1617	43	36	418	86	128	387	188	127	142	517
Arrive On Green	0.33	0.45	0.45	0.04	0.28	0.28	0.32	0.32	0.32	0.11	0.11	0.11
Sat Flow, veh/h	1810	3593	95	1810	2984	613	1075	1210	587	234	444	1615
Grp Volume(v), veh/h	412	416	434	23	111	114	44	0	401	149	0	238
Grp Sat Flow(s), veh/h/ln	1810	1805	1883	1810	1805	1792	1075	0	1796	678	0	1615
Q Serve(g_s), s	19.8	16.5	16.5	1.3	5.0	5.2	4.0	0.0	19.5	7.3	0.0	13.9
Cycle Q Clear(g_c), s	19.8	16.5	16.5	1.3	5.0	5.2	30.9	0.0	19.5	26.8	0.0	13.9
Prop In Lane	1.00		0.05	1.00		0.34	1.00		0.33	0.44		1.00
Lane Grp Cap(c), veh/h	597	812	847	36	253	251	128	0	575	269	0	517
V/C Ratio(X)	0.69	0.51	0.51	0.64	0.44	0.45	0.34	0.00	0.70	0.55	0.00	0.46
Avail Cap(c_a), veh/h	597	812	847	90	253	251	128	0	575	269	0	517
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	0.33	0.33	0.33
Upstream Filter(I)	1.00	1.00	1.00	0.99	0.99	0.99	1.00	0.00	1.00	0.98	0.00	0.98
Uniform Delay (d), s/veh	29.1	19.7	19.7	47.6	32.8	32.8	46.9	0.0	29.8	45.0	0.0	36.6
Incr Delay (d2), s/veh	3.4	2.3	2.2	16.9	5.4	5.8	7.2	0.0	6.9	7.9	0.0	2.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.4	8.7	9.1	0.8	2.8	3.0	1.5	0.0	10.8	4.6	0.0	6.6
LnGrp Delay(d),s/veh	32.4	22.0	21.9	64.5	38.2	38.6	54.1	0.0	36.6	52.9	0.0	39.5
LnGrp LOS	C	C	C	E	D	D	D		D	D		D
Approach Vol, veh/h		1262			248			445			387	
Approach Delay, s/veh		25.3			40.8			38.4			44.6	
Approach LOS		C			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	52.0		39.0	40.0	21.0		39.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	8.0	45.0		35.0	36.0	17.0		35.0
Max Q Clear Time (g_c+I1), s	14.3	19.5		29.8	22.8	8.2		33.9
Green Ext Time (p_c), s	0.0	7.5		2.1	5.7	0.7		0.6

Intersection Summary	
HCM 2010 Ctrl Delay	32.6
HCM 2010 LOS	C

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Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	0	0	8	27	13	24	210	0	0	114	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	8	28	14	25	221	0	0	120	9

Major/Minor	Minor1			Major1			Major2		
Conflicting Flow All	397	401	221	129	0	0	221	0	0
Stage 1	272	272	-	-	-	-	-	-	-
Stage 2	125	129	-	-	-	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	612	541	824	1469	-	-	1360	-	-
Stage 1	778	688	-	-	-	-	-	-	-
Stage 2	906	793	-	-	-	-	-	-	-
Platoon blocked, %					-	-		-	-
Mov Cap-1 Maneuver	600	0	824	1469	-	-	1360	-	-
Mov Cap-2 Maneuver	600	0	-	-	-	-	-	-	-
Stage 1	763	0	-	-	-	-	-	-	-
Stage 2	906	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10.4	0.8	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1469	-	-	721	1360	-	-
HCM Lane V/C Ratio	0.017	-	-	0.07	-	-	-
HCM Control Delay (s)	7.5	0	-	10.4	0	-	-
HCM Lane LOS	A	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	0	-	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	896	7	22	193	15	11	41	38	23	23	20
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	102	985	8	24	212	16	12	45	42	25	25	22
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	163	1615	13	36	1260	94	28	104	97	80	80	70
Arrive On Green	0.09	0.44	0.44	0.02	0.37	0.37	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	1810	3670	30	1810	3405	255	213	799	746	616	616	542
Grp Volume(v), veh/h	102	484	509	24	112	116	99	0	0	72	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1895	1810	1805	1855	1758	0	0	1774	0	0
Q Serve(g_s), s	5.4	20.5	20.5	1.3	4.2	4.2	5.2	0.0	0.0	3.7	0.0	0.0
Cycle Q Clear(g_c), s	5.4	20.5	20.5	1.3	4.2	4.2	5.2	0.0	0.0	3.7	0.0	0.0
Prop In Lane	1.00		0.02	1.00		0.14	0.12		0.42	0.35		0.31
Lane Grp Cap(c), veh/h	163	794	834	36	668	686	229	0	0	231	0	0
V/C Ratio(X)	0.63	0.61	0.61	0.66	0.17	0.17	0.43	0.00	0.00	0.31	0.00	0.00
Avail Cap(c_a), veh/h	163	794	834	90	668	686	229	0	0	231	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.87	0.87	0.87	0.98	0.98	0.98	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	43.9	21.4	21.4	48.7	21.2	21.2	40.1	0.0	0.0	39.4	0.0	0.0
Incr Delay (d2), s/veh	6.5	3.0	2.9	18.6	0.5	0.5	5.9	0.0	0.0	3.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	10.9	11.4	0.8	2.2	2.3	2.9	0.0	0.0	2.0	0.0	0.0
LnGrp Delay(d),s/veh	50.3	24.5	24.3	67.2	21.7	21.7	46.0	0.0	0.0	43.0	0.0	0.0
LnGrp LOS	D	C	C	E	C	C	D			D		
Approach Vol, veh/h		1095			252			99			72	
Approach Delay, s/veh		26.8			26.0			46.0			43.0	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	51.0		20.0	16.0	44.0		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	8.0	44.0		16.0	12.0	40.0		16.0
Max Q Clear Time (g_c+I1), s	4.3	23.5		6.7	8.4	7.2		8.2
Green Ext Time (p_c), s	0.0	6.9		0.2	1.3	1.3		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	28.7
HCM 2010 LOS	C

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Intersection												
Int Delay, s/veh	56.8											

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	2	3	23	262	11	150	4	271	46	58	467	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	25	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	3	25	285	12	163	4	295	50	63	508	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	969	988	509	977	965	320	511	0	0	345	0	0
Stage 1	635	635	-	328	328	-	-	-	-	-	-	-
Stage 2	334	353	-	649	637	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	235	249	568	~ 232	257	725	1065	-	-	1225	-	-
Stage 1	470	476	-	689	651	-	-	-	-	-	-	-
Stage 2	684	634	-	462	475	-	-	-	-	-	-	-
Platoon blocked, %												
Mov Cap-1 Maneuver	165	230	568	~ 207	237	725	1065	-	-	1225	-	-
Mov Cap-2 Maneuver	165	230	-	~ 207	237	-	-	-	-	-	-	-
Stage 1	468	442	-	686	648	-	-	-	-	-	-	-
Stage 2	518	631	-	407	441	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	14.1	172.4	0.1	0.9
HCM LOS	B	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1065	-	-	426	208	725	1225	-	-
HCM Lane V/C Ratio	0.004	-	-	0.071	1.427	0.225	0.051	-	-
HCM Control Delay (s)	8.4	0	-	14.1	260.9	11.4	8.1	0	-
HCM Lane LOS	A	A	-	B	F	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	17.5	0.9	0.2	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Intersection	
Int Delay, s/veh	9.5

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	82	185	144	252	380	365
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	89	201	157	274	413	397

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1380	157	0	0	157	0
Stage 1	157	-	-	-	-	-
Stage 2	1223	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	161	894	-	-	1435	-
Stage 1	876	-	-	-	-	-
Stage 2	281	-	-	-	-	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	115	894	-	-	1435	-
Mov Cap-2 Maneuver	115	-	-	-	-	-
Stage 1	876	-	-	-	-	-
Stage 2	200	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	38.3	0	4.3
HCM LOS	E		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	115	894	1435	-
HCM Lane V/C Ratio	-	-	0.775	0.225	0.288	-
HCM Control Delay (s)	-	-	101.8	10.2	8.5	-
HCM Lane LOS	-	-	F	B	A	-
HCM 95th %tile Q(veh)	-	-	4.4	0.9	1.2	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	100	422	98	194	340	170	22	98	71	65	193	107
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	105	444	103	204	358	179	23	103	75	68	203	113
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	106	1093	252	209	516	258	118	495	354	112	287	149
Arrive On Green	0.06	0.37	0.37	0.12	0.43	0.43	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	1810	2915	671	1810	1196	598	247	1650	1181	233	956	496
Grp Volume(v), veh/h	105	274	273	204	0	537	104	0	97	384	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1782	1810	0	1794	1558	0	1521	1684	0	0
Q Serve(g_s), s	5.8	11.2	11.3	11.2	0.0	24.3	0.0	0.0	4.7	14.3	0.0	0.0
Cycle Q Clear(g_c), s	5.8	11.2	11.3	11.2	0.0	24.3	4.1	0.0	4.7	20.4	0.0	0.0
Prop In Lane	1.00		0.38	1.00		0.33	0.22		0.78	0.18		0.29
Lane Grp Cap(c), veh/h	106	676	668	209	0	774	511	0	456	548	0	0
V/C Ratio(X)	0.99	0.40	0.41	0.98	0.00	0.69	0.20	0.00	0.21	0.70	0.00	0.00
Avail Cap(c_a), veh/h	181	676	668	344	0	774	511	0	456	548	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.95	0.00	0.95	1.00	0.00	0.00
Uniform Delay (d), s/veh	47.0	23.0	23.1	44.1	0.0	23.1	25.9	0.0	26.2	31.5	0.0	0.0
Incr Delay (d2), s/veh	48.0	1.8	1.9	32.5	0.0	5.1	0.9	0.0	1.0	7.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	5.9	5.9	7.5	0.0	13.0	2.3	0.0	2.1	10.7	0.0	0.0
LnGrp Delay(d),s/veh	95.0	24.8	24.9	76.7	0.0	28.2	26.8	0.0	27.2	38.8	0.0	0.0
LnGrp LOS	F	C	C	E		C	C		C	D		
Approach Vol, veh/h		652			741			201			384	
Approach Delay, s/veh		36.2			41.5			27.0			38.8	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.5	44.5		37.0	12.9	50.1		37.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	22.0	33.0		33.0	13.0	42.0		33.0
Max Q Clear Time (g_c+I1), s	14.2	14.3		23.4	8.8	27.3		7.7
Green Ext Time (p_c), s	0.3	7.0		2.6	0.1	6.2		4.0

Intersection Summary	
HCM 2010 Ctrl Delay	37.7
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	214	9	11	12	42	5	611	341	202	755	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	29	228	10	12	13	45	5	650	363	215	803	21
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	231	265	12	99	55	190	223	1880	841	222	1869	49
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.12	0.52	0.52	0.12	0.52	0.52
Sat Flow, veh/h	1366	1807	79	1160	375	1297	1810	3610	1615	1810	3594	94
Grp Volume(v), veh/h	29	0	238	12	0	58	5	650	363	215	403	421
Grp Sat Flow(s),veh/h/ln	1366	0	1886	1160	0	1671	1810	1805	1615	1810	1805	1883
Q Serve(g_s), s	1.9	0.0	12.3	1.0	0.0	3.1	0.2	10.5	13.9	11.8	13.8	13.8
Cycle Q Clear(g_c), s	5.0	0.0	12.3	13.3	0.0	3.1	0.2	10.5	13.9	11.8	13.8	13.8
Prop In Lane	1.00		0.04	1.00		0.78	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	231	0	277	99	0	245	223	1880	841	222	939	979
V/C Ratio(X)	0.13	0.00	0.86	0.12	0.00	0.24	0.02	0.35	0.43	0.97	0.43	0.43
Avail Cap(c_a), veh/h	358	0	453	207	0	401	223	1880	841	434	939	979
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.64	0.64	0.64	0.51	0.51	0.51
Uniform Delay (d), s/veh	39.9	0.0	41.7	48.2	0.0	37.7	38.5	14.0	14.8	43.7	14.8	14.8
Incr Delay (d2), s/veh	0.2	0.0	9.0	0.5	0.0	0.5	0.0	0.3	1.0	14.1	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	7.1	0.3	0.0	1.5	0.1	5.3	6.4	6.8	7.0	7.3
LnGrp Delay(d),s/veh	40.2	0.0	50.6	48.7	0.0	38.2	38.6	14.3	15.9	57.8	15.6	15.5
LnGrp LOS	D		D	D		D	D	B	B	E	B	B
Approach Vol, veh/h		267			70			1018			1039	
Approach Delay, s/veh		49.5			40.0			15.0			24.3	
Approach LOS		D			D			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.3	59.1		21.7	19.3	59.0		21.7
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	7.6	34.0		27.0	6.0	55.0		27.0
Max Q Clear Time (g_c+I1), s	14.8	16.9		15.3	3.2	16.8		16.3
Green Ext Time (p_c), s	0.5	5.5		1.4	0.0	6.1		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	23.6
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	283	725	1	1	140	242	1	9	5	138	1	49
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	314	806	1	1	156	269	1	10	6	153	1	54
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	320	1628	2	36	1021	457	14	136	82	456	4	207
Arrive On Green	0.35	0.88	0.88	0.02	0.28	0.28	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	1810	3700	5	1810	3610	1615	105	1049	630	3510	29	1590
Grp Volume(v), veh/h	314	393	414	1	156	269	17	0	0	153	0	55
Grp Sat Flow(s),veh/h/ln	1810	1805	1899	1810	1805	1615	1784	0	0	1755	0	1619
Q Serve(g_s), s	17.2	4.6	4.6	0.1	3.2	14.3	0.8	0.0	0.0	4.0	0.0	3.1
Cycle Q Clear(g_c), s	17.2	4.6	4.6	0.1	3.2	14.3	0.8	0.0	0.0	4.0	0.0	3.1
Prop In Lane	1.00		0.00	1.00		1.00	0.06		0.35	1.00		0.98
Lane Grp Cap(c), veh/h	320	794	836	36	1021	457	232	0	0	456	0	211
V/C Ratio(X)	0.98	0.50	0.50	0.03	0.15	0.59	0.07	0.00	0.00	0.34	0.00	0.26
Avail Cap(c_a), veh/h	434	794	836	36	1021	457	232	0	0	456	0	211
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.80	0.80	0.80	1.00	1.00	1.00	1.00	0.00	0.00	0.95	0.00	0.95
Uniform Delay (d), s/veh	32.1	3.6	3.6	48.0	26.9	30.8	38.2	0.0	0.0	39.6	0.0	39.2
Incr Delay (d2), s/veh	29.2	1.8	1.7	0.3	0.1	2.0	0.6	0.0	0.0	1.9	0.0	2.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	2.4	2.5	0.0	1.6	6.6	0.5	0.0	0.0	2.0	0.0	1.5
LnGrp Delay(d),s/veh	61.3	5.4	5.3	48.4	26.9	32.8	38.8	0.0	0.0	41.5	0.0	42.0
LnGrp LOS	E	A	A	D	C	C	D			D		D
Approach Vol, veh/h		1121			426			17			208	
Approach Delay, s/veh		21.0			30.7			38.8			41.6	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	51.0		20.0	24.7	35.3		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	5.0	47.0		16.0	27.0	25.0		16.0
Max Q Clear Time (g_c+I1), s	3.1	7.6		7.0	20.2	17.3		3.8
Green Ext Time (p_c), s	0.0	5.9		0.5	0.6	1.2		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	25.9
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	518	45	0	309	21	331	33	129	0	0	52
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	545	47	0	325	22	348	35	136	0	0	55
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	605	52	0	617	42	841	85	823	0	0	0
Arrive On Green	0.00	0.35	0.35	0.00	0.35	0.35	0.51	0.51	0.51	0.00	0.00	0.00
Sat Flow, veh/h	0	1725	149	0	1760	119	1651	166	1615		0	
Grp Volume(v), veh/h	0	0	592	0	0	347	383	0	136		0.0	
Grp Sat Flow(s), veh/h/ln	0	0	1874	0	0	1879	1817	0	1615			
Q Serve(g_s), s	0.0	0.0	30.0	0.0	0.0	14.7	13.1	0.0	4.5			
Cycle Q Clear(g_c), s	0.0	0.0	30.0	0.0	0.0	14.7	13.1	0.0	4.5			
Prop In Lane	0.00		0.08	0.00		0.06	0.91		1.00			
Lane Grp Cap(c), veh/h	0	0	657	0	0	659	926	0	823			
V/C Ratio(X)	0.00	0.00	0.90	0.00	0.00	0.53	0.41	0.00	0.17			
Avail Cap(c_a), veh/h	0	0	806	0	0	808	926	0	823			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	30.8	0.0	0.0	25.9	15.3	0.0	13.1			
Incr Delay (d2), s/veh	0.0	0.0	11.6	0.0	0.0	0.7	1.4	0.0	0.4			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%), veh/ln	0.0	0.0	17.6	0.0	0.0	7.7	6.8	0.0	2.1			
LnGrp Delay(d),s/veh	0.0	0.0	42.4	0.0	0.0	26.5	16.6	0.0	13.6			
LnGrp LOS			D			C	B		B			
Approach Vol, veh/h		592			347			519				
Approach Delay, s/veh		42.4			26.5			15.8				
Approach LOS		D			C			B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		57.9		42.1				42.1
Change Period (Y+Rc), s		4.0		4.0				4.0
Max Green Setting (Gmax), s		36.0		46.0				46.0
Max Q Clear Time (g_c+I1), s		16.1		33.0				17.7
Green Ext Time (p_c), s		2.8		5.1				7.0

Intersection Summary	
HCM 2010 Ctrl Delay	29.1
HCM 2010 LOS	C

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Intersection	
Int Delay, s/veh	27.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	718	58	12	5	42	77	8	50	7	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	825	67	14	6	48	89	9	57	8	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	137	0	0	80	0	0	1828	1872	74
Stage 1	-	-	-	-	-	-	1724	1724	-
Stage 2	-	-	-	-	-	-	104	148	-
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3
Pot Cap-1 Maneuver	1459	-	-	1531	-	-	85	73	993
Stage 1	-	-	-	-	-	-	160	145	-
Stage 2	-	-	-	-	-	-	925	779	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1459	-	-	1531	-	-	34	0	993
Mov Cap-2 Maneuver	-	-	-	-	-	-	34	0	-
Stage 1	-	-	-	-	-	-	65	0	-
Stage 2	-	-	-	-	-	-	921	0	-

Approach	EB	WB	NB
HCM Control Delay, s	9.7	0.3	292.5
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	62	1459	-	-	1531	-	-
HCM Lane V/C Ratio	1.205	0.566	-	-	0.004	-	-
HCM Control Delay (s)	292.5	10.6	0	-	7.4	0	-
HCM Lane LOS	F	B	A	-	A	A	-
HCM 95th %tile Q(veh)	6.1	3.7	-	-	0	-	-

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APPENDIX H

CUMULATIVE PLUS PROJECT HCM WORKSHEETS

Intersection	
Intersection Delay, s/veh	15.1
Intersection LOS	C

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	106	9	0	49	118	0	0	14	0	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	115	10	0	53	128	0	0	15	0	40
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	10.3	10.6	8.7
HCM LOS	B	B	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	27%	0%	100%	0%	35%
Vol Thru, %	0%	92%	0%	100%	61%
Vol Right, %	73%	8%	0%	0%	4%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	51	115	49	118	475
LT Vol	14	0	49	0	165
Through Vol	0	106	0	118	291
RT Vol	37	9	0	0	19
Lane Flow Rate	55	125	53	128	516
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.08	0.201	0.099	0.221	0.697
Departure Headway (Hd)	5.195	5.802	6.717	6.209	4.962
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	691	621	536	581	733
Service Time	3.219	3.813	4.426	3.918	2.962
HCM Lane V/C Ratio	0.08	0.201	0.099	0.22	0.704
HCM Control Delay	8.7	10.3	10.2	10.7	18.6
HCM Lane LOS	A	B	B	B	C
HCM 95th-tile Q	0.3	0.7	0.3	0.8	5.7

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Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	165	291	19
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	179	316	21
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	18.6
HCM LOS	C

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	656	130	85	156	116	0	0	295	22
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				458	462	89	164	122	0	0	311	23
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				600	514	99	344	1004	0	0	915	67
Arrive On Green				0.33	0.33	0.33	0.19	0.53	0.00	0.00	0.27	0.27
Sat Flow, veh/h				1810	1549	298	1810	1900	0	0	3505	251
Grp Volume(v), veh/h				458	0	551	164	122	0	0	164	170
Grp Sat Flow(s),veh/h/ln				1810	0	1847	1810	1900	0	0	1805	1856
Q Serve(g_s), s				22.6	0.0	28.4	8.1	3.2	0.0	0.0	7.3	7.4
Cycle Q Clear(g_c), s				22.6	0.0	28.4	8.1	3.2	0.0	0.0	7.3	7.4
Prop In Lane				1.00		0.16	1.00		0.00	0.00		0.14
Lane Grp Cap(c), veh/h				600	0	613	344	1004	0	0	484	498
V/C Ratio(X)				0.76	0.00	0.90	0.48	0.12	0.00	0.00	0.34	0.34
Avail Cap(c_a), veh/h				796	0	813	344	1004	0	0	484	498
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				29.9	0.0	31.8	36.1	11.9	0.0	0.0	29.4	29.5
Incr Delay (d2), s/veh				3.1	0.0	10.5	4.7	0.2	0.0	0.0	1.9	1.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				11.8	0.0	16.2	4.5	1.8	0.0	0.0	3.9	4.0
LnGrp Delay(d),s/veh				33.0	0.0	42.3	40.8	12.1	0.0	0.0	31.3	31.3
LnGrp LOS				C		D	D	B			C	C
Approach Vol, veh/h					1009			286			334	
Approach Delay, s/veh					38.1			28.5			31.3	
Approach LOS					D			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		59.8			26.0	33.8		40.2
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		45.0			22.0	19.0		47.0
Max Q Clear Time (g_c+I1), s		6.2			11.1	10.4		31.4
Green Ext Time (p_c), s		2.9			0.3	1.7		4.8

Intersection Summary	
HCM 2010 Ctrl Delay	35.0
HCM 2010 LOS	D

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	72	113	125	19	26	23	22	212	151	111	690	101
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	77	120	133	20	28	24	23	226	161	118	734	107
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	294	143	159	110	330	281	319	1191	533	518	1392	203
Arrive On Green	0.17	0.17	0.17	0.17	0.17	0.17	0.18	0.33	0.33	0.29	0.44	0.44
Sat Flow, veh/h	1374	825	914	1144	1900	1615	1810	3610	1615	1810	3163	461
Grp Volume(v), veh/h	77	0	253	20	28	24	23	226	161	118	419	422
Grp Sat Flow(s), veh/h/ln	1374	0	1739	1144	1900	1615	1810	1805	1615	1810	1805	1819
Q Serve(g_s), s	5.0	0.0	14.1	1.7	1.2	1.2	1.1	4.5	7.4	5.0	16.9	16.9
Cycle Q Clear(g_c), s	6.2	0.0	14.1	15.8	1.2	1.2	1.1	4.5	7.4	5.0	16.9	16.9
Prop In Lane	1.00		0.53	1.00		1.00	1.00		1.00	1.00		0.25
Lane Grp Cap(c), veh/h	294	0	302	110	330	281	319	1191	533	518	794	800
V/C Ratio(X)	0.26	0.00	0.84	0.18	0.08	0.09	0.07	0.19	0.30	0.23	0.53	0.53
Avail Cap(c_a), veh/h	426	0	469	220	513	436	319	1191	533	518	794	800
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.95	0.95	0.95	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.3	0.0	40.0	47.6	34.6	34.7	34.4	23.9	24.9	27.2	20.4	20.4
Incr Delay (d2), s/veh	0.5	0.0	7.7	0.8	0.1	0.1	0.1	0.3	1.4	0.2	2.5	2.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	1.9	0.0	7.4	0.6	0.7	0.6	0.5	2.3	3.5	2.5	8.9	9.0
LnGrp Delay(d),s/veh	37.7	0.0	47.7	48.4	34.8	34.8	34.5	24.3	26.3	27.5	22.9	22.9
LnGrp LOS	D		D	D	C	C	C	C	C	C	C	C
Approach Vol, veh/h		330			72			410			959	
Approach Delay, s/veh		45.3			38.5			25.7			23.5	
Approach LOS		D			D			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	35.6	40.0		24.4	24.6	51.0		24.4
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	22.6	36.0		30.0	11.0	47.0		30.0
Max Q Clear Time (g_c+I1), s	18.9	10.4		17.1	4.1	19.9		18.8
Green Ext Time (p_c), s	0.3	2.0		1.7	0.2	6.0		1.6

Intersection Summary	
HCM 2010 Ctrl Delay	28.7
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	109	180	89	123	638	56	12	52	24	54	201	307
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	121	200	99	137	709	62	13	58	27	60	223	341
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	271	1055	502	137	1243	109	174	331	154	123	399	436
Arrive On Green	0.15	0.44	0.44	0.10	0.49	0.49	0.27	0.27	0.27	0.09	0.09	0.09
Sat Flow, veh/h	1810	2375	1131	1810	3360	294	860	1228	571	296	1479	1615
Grp Volume(v), veh/h	121	150	149	137	381	390	13	0	85	283	0	341
Grp Sat Flow(s), veh/h/ln	1810	1805	1700	1810	1805	1848	860	0	1799	1774	0	1615
Q Serve(g_s), s	6.1	5.0	5.3	7.6	14.9	14.9	1.4	0.0	3.6	9.7	0.0	20.7
Cycle Q Clear(g_c), s	6.1	5.0	5.3	7.6	14.9	14.9	16.5	0.0	3.6	15.1	0.0	20.7
Prop In Lane	1.00		0.66	1.00		0.16	1.00		0.32	0.21		1.00
Lane Grp Cap(c), veh/h	271	802	755	137	668	684	174	0	486	523	0	436
V/C Ratio(X)	0.45	0.19	0.20	1.00	0.57	0.57	0.07	0.00	0.17	0.54	0.00	0.78
Avail Cap(c_a), veh/h	271	802	755	145	668	684	174	0	486	523	0	436
HCM Platoon Ratio	1.00	1.00	1.00	1.33	1.33	1.33	1.00	1.00	1.00	0.33	0.33	0.33
Upstream Filter(I)	1.00	1.00	1.00	0.83	0.83	0.83	1.00	0.00	1.00	0.94	0.00	0.94
Uniform Delay (d), s/veh	38.7	16.8	16.9	45.0	19.8	19.8	39.4	0.0	28.0	40.0	0.0	42.7
Incr Delay (d2), s/veh	1.1	0.5	0.6	66.7	2.9	2.9	0.8	0.0	0.8	3.8	0.0	12.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	2.6	2.6	6.3	7.9	8.1	0.4	0.0	1.9	8.1	0.0	10.8
LnGrp Delay(d),s/veh	39.9	17.4	17.5	111.6	22.7	22.7	40.2	0.0	28.8	43.8	0.0	55.1
LnGrp LOS	D	B	B	F	C	C	D		C	D		E
Approach Vol, veh/h		420			908			98			624	
Approach Delay, s/veh		23.9			36.1			30.3			49.9	
Approach LOS		C			D			C			D	
Timer	1	2	3	4	5	6	7	8				
Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.6	51.4		34.0	22.0	44.0		34.0				
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0				
Max Green Setting (Gmax), s	11.6	47.0		30.0	18.0	40.0		30.0				
Max Q Clear Time (g_c+I1), s	10.6	8.3		23.7	9.1	17.9		19.5				
Green Ext Time (p_c), s	0.0	2.3		2.0	1.4	5.0		2.7				
Intersection Summary												
HCM 2010 Ctrl Delay			37.5									
HCM 2010 LOS			D									

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Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	0	0	13	24	10	3	118	0	0	169	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	15	28	12	3	137	0	0	197	10

Major/Minor	Minor1			Major1			Major2		
Conflicting Flow All	346	351	137	207	0	0	137	0	0
Stage 1	144	144	-	-	-	-	-	-	-
Stage 2	202	207	-	-	-	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	655	577	917	1376	-	-	1459	-	-
Stage 1	888	782	-	-	-	-	-	-	-
Stage 2	837	734	-	-	-	-	-	-	-
Platoon blocked, %					-	-		-	-
Mov Cap-1 Maneuver	654	0	917	1376	-	-	1459	-	-
Mov Cap-2 Maneuver	654	0	-	-	-	-	-	-	-
Stage 1	886	0	-	-	-	-	-	-	-
Stage 2	837	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	10.2	0.2	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1376	-	-	747	1459	-	-
HCM Lane V/C Ratio	0.003	-	-	0.073	-	-	-
HCM Control Delay (s)	7.6	0	-	10.2	0	-	-
HCM Lane LOS	A	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	8	204	21	56	764	18	6	34	65	7	54	56
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	9	234	24	64	878	21	7	39	75	8	62	64
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	36	1026	104	199	1441	34	15	83	159	16	121	125
Arrive On Green	0.02	0.31	0.31	0.11	0.40	0.40	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	1810	3309	336	1810	3604	86	99	551	1059	104	809	835
Grp Volume(v), veh/h	9	127	131	64	440	459	121	0	0	134	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1841	1810	1805	1885	1708	0	0	1747	0	0
Q Serve(g_s), s	0.5	5.2	5.3	3.3	19.3	19.3	6.5	0.0	0.0	7.1	0.0	0.0
Cycle Q Clear(g_c), s	0.5	5.2	5.3	3.3	19.3	19.3	6.5	0.0	0.0	7.1	0.0	0.0
Prop In Lane	1.00		0.18	1.00		0.05	0.06		0.62	0.06		0.48
Lane Grp Cap(c), veh/h	36	560	571	199	722	754	256	0	0	262	0	0
V/C Ratio(X)	0.25	0.23	0.23	0.32	0.61	0.61	0.47	0.00	0.00	0.51	0.00	0.00
Avail Cap(c_a), veh/h	54	560	571	199	722	754	256	0	0	262	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.99	0.63	0.63	0.63	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	48.3	25.6	25.6	41.1	23.8	23.8	38.9	0.0	0.0	39.1	0.0	0.0
Incr Delay (d2), s/veh	3.5	0.9	0.9	0.6	2.4	2.3	6.1	0.0	0.0	7.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.7	2.8	1.7	10.1	10.6	3.5	0.0	0.0	3.9	0.0	0.0
LnGrp Delay(d),s/veh	51.7	26.5	26.6	41.6	26.2	26.1	45.0	0.0	0.0	46.1	0.0	0.0
LnGrp LOS	D	C	C	D	C	C	D			D		
Approach Vol, veh/h		267			963			121			134	
Approach Delay, s/veh		27.4			27.2			45.0			46.1	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	38.0		22.0	9.0	47.0		22.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	14.0	34.0		18.0	6.0	42.0		18.0
Max Q Clear Time (g_c+I1), s	6.3	8.3		10.1	3.5	22.3		9.5
Green Ext Time (p_c), s	3.5	1.5		0.4	0.0	6.0		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	30.4
HCM 2010 LOS	C

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Intersection												
Int Delay, s/veh	6.8											

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	1	1	10	104	6	327	5	264	56	0	374	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	25	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	1	11	118	7	372	6	300	64	0	425	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	774	802	427	776	771	332	428	0	0	364	0	0
Stage 1	427	427	-	343	343	-	-	-	-	-	-	-
Stage 2	347	375	-	433	428	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	318	320	632	317	333	714	1142	-	-	1206	-	-
Stage 1	610	589	-	676	641	-	-	-	-	-	-	-
Stage 2	673	621	-	605	588	-	-	-	-	-	-	-
Platoon blocked, %												
Mov Cap-1 Maneuver	149	318	632	309	331	714	1142	-	-	1206	-	-
Mov Cap-2 Maneuver	149	318	-	309	331	-	-	-	-	-	-	-
Stage 1	606	589	-	671	637	-	-	-	-	-	-	-
Stage 2	317	617	-	593	588	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	12.9	17.6	0.1	0
HCM LOS	B	C		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1142	-	-	467	310	714	1206	-	-
HCM Lane V/C Ratio	0.005	-	-	0.029	0.403	0.52	-	-	-
HCM Control Delay (s)	8.2	0	-	12.9	24.2	15.4	0	-	-
HCM Lane LOS	A	A	-	B	C	C	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	1.9	3	0	-	-

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Intersection						
Int Delay, s/veh	4					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	38	95	236	226	261	268
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	43	107	265	254	293	301

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1153	265	0	0	265	0
Stage 1	265	-	-	-	-	-
Stage 2	888	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	220	779	-	-	1311	-
Stage 1	784	-	-	-	-	-
Stage 2	405	-	-	-	-	-
Platoon blocked, %						
Mov Cap-1 Maneuver	171	779	-	-	1311	-
Mov Cap-2 Maneuver	171	-	-	-	-	-
Stage 1	784	-	-	-	-	-
Stage 2	314	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	16.8	0	4.2
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	171	779	1311	-
HCM Lane V/C Ratio	-	-	0.25	0.137	0.224	-
HCM Control Delay (s)	-	-	32.9	10.4	8.5	-
HCM Lane LOS	-	-	D	B	A	-
HCM 95th %tile Q(veh)	-	-	0.9	0.5	0.9	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	92	172	22	221	592	77	53	62	31	36	106	242
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	97	181	23	233	623	81	56	65	33	38	112	255
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	98	1287	161	238	784	102	175	289	156	66	134	273
Arrive On Green	0.05	0.40	0.40	0.13	0.48	0.48	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h	1810	3229	405	1810	1648	214	414	1111	601	102	517	1051
Grp Volume(v), veh/h	97	100	104	233	0	704	65	0	89	405	0	0
Grp Sat Flow(s), veh/h/ln	1810	1805	1829	1810	0	1862	503	0	1623	1670	0	0
Q Serve(g_s), s	5.4	3.5	3.6	12.8	0.0	31.9	0.0	0.0	4.3	14.7	0.0	0.0
Cycle Q Clear(g_c), s	5.4	3.5	3.6	12.8	0.0	31.9	12.1	0.0	4.3	23.7	0.0	0.0
Prop In Lane	1.00		0.22	1.00		0.12	0.86		0.37	0.09		0.63
Lane Grp Cap(c), veh/h	98	720	729	238	0	886	198	0	422	473	0	0
V/C Ratio(X)	0.99	0.14	0.14	0.98	0.00	0.79	0.33	0.00	0.21	0.86	0.00	0.00
Avail Cap(c_a), veh/h	145	720	729	326	0	886	198	0	422	473	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.99	0.00	0.99	1.00	0.00	0.00
Uniform Delay (d), s/veh	47.3	19.1	19.2	43.3	0.0	22.1	31.4	0.0	29.0	36.0	0.0	0.0
Incr Delay (d2), s/veh	61.2	0.4	0.4	38.8	0.0	7.3	4.3	0.0	1.1	17.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	1.8	1.9	9.0	0.0	18.0	1.8	0.0	2.1	13.2	0.0	0.0
LnGrp Delay(d),s/veh	108.5	19.5	19.6	82.1	0.0	29.3	35.8	0.0	30.1	53.7	0.0	0.0
LnGrp LOS	F	B	B	F		C	D		C	D		
Approach Vol, veh/h		301			937			154			405	
Approach Delay, s/veh		48.2			42.5			32.5			53.7	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	20.1	46.9		33.0	12.4	54.6		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	21.0	38.0		29.0	11.0	48.0		29.0
Max Q Clear Time (g_c+I1), s	15.8	6.6		26.7	8.4	34.9		15.1
Green Ext Time (p_c), s	0.3	7.3		0.9	0.0	5.1		3.2

Intersection Summary	
HCM 2010 Ctrl Delay	45.1
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	25	82	4	9	13	48	10	399	84	92	723	30
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	27	87	4	10	14	51	11	424	89	98	769	32
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	108	117	5	95	23	85	371	1336	598	643	1837	76
Arrive On Green	0.06	0.06	0.06	0.06	0.06	0.06	0.21	0.37	0.37	0.36	0.52	0.52
Sat Flow, veh/h	1358	1803	83	1326	359	1309	1810	3610	1615	1810	3532	147
Grp Volume(v), veh/h	27	0	91	10	0	65	11	424	89	98	393	408
Grp Sat Flow(s), veh/h/ln	1358	0	1885	1326	0	1669	1810	1805	1615	1810	1805	1874
Q Serve(g_s), s	2.0	0.0	4.7	0.7	0.0	3.8	0.5	8.4	3.7	3.7	13.4	13.4
Cycle Q Clear(g_c), s	5.8	0.0	4.7	5.5	0.0	3.8	0.5	8.4	3.7	3.7	13.4	13.4
Prop In Lane	1.00		0.04	1.00		0.78	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	108	0	122	95	0	108	371	1336	598	643	939	975
V/C Ratio(X)	0.25	0.00	0.75	0.11	0.00	0.60	0.03	0.32	0.15	0.15	0.42	0.42
Avail Cap(c_a), veh/h	292	0	377	274	0	334	371	1336	598	643	939	975
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.91	0.91	0.91	0.42	0.42	0.42
Uniform Delay (d), s/veh	48.3	0.0	46.0	48.6	0.0	45.5	31.8	22.5	21.0	22.0	14.7	14.7
Incr Delay (d2), s/veh	1.2	0.0	8.7	0.5	0.0	5.3	0.0	0.6	0.5	0.0	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	2.8	0.3	0.0	1.9	0.2	4.3	1.7	1.9	6.8	7.1
LnGrp Delay(d),s/veh	49.5	0.0	54.6	49.1	0.0	50.8	31.8	23.1	21.5	22.0	15.3	15.3
LnGrp LOS	D		D	D		D	C	C	C	C	B	B
Approach Vol, veh/h		118			75			524			899	
Approach Delay, s/veh		53.4			50.6			23.0			16.0	
Approach LOS		D			D			C			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	62.5	44.0		13.5	27.5	59.0		13.5
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	25.6	40.0		23.0	10.0	55.0		23.0
Max Q Clear Time (g_c+I1), s	16.3	11.4		8.8	3.5	16.4		8.5
Green Ext Time (p_c), s	0.2	3.3		0.8	0.1	5.9		0.8

Intersection Summary	
HCM 2010 Ctrl Delay	22.6
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	84	196	0	7	679	157	3	2	1	261	10	177
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	101	236	0	8	818	189	4	2	1	314	12	213
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	318	1480	0	54	953	427	134	67	33	527	13	231
Arrive On Green	0.35	0.82	0.00	0.03	0.26	0.26	0.13	0.13	0.13	0.15	0.15	0.15
Sat Flow, veh/h	1810	3705	0	1810	3610	1615	1030	515	258	3510	87	1541
Grp Volume(v), veh/h	101	236	0	8	818	189	7	0	0	314	0	225
Grp Sat Flow(s), veh/h/ln	1810	1805	0	1810	1805	1615	1803	0	0	1755	0	1628
Q Serve(g_s), s	4.1	1.4	0.0	0.4	21.6	9.8	0.3	0.0	0.0	8.3	0.0	13.6
Cycle Q Clear(g_c), s	4.1	1.4	0.0	0.4	21.6	9.8	0.3	0.0	0.0	8.3	0.0	13.6
Prop In Lane	1.00		0.00	1.00		1.00	0.57		0.14	1.00		0.95
Lane Grp Cap(c), veh/h	318	1480	0	54	953	427	234	0	0	527	0	244
V/C Ratio(X)	0.32	0.16	0.00	0.15	0.86	0.44	0.03	0.00	0.00	0.60	0.00	0.92
Avail Cap(c_a), veh/h	318	1480	0	54	1191	533	234	0	0	527	0	244
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.97	0.00	0.97
Uniform Delay (d), s/veh	28.0	5.4	0.0	47.3	35.0	30.7	38.0	0.0	0.0	39.7	0.0	41.9
Incr Delay (d2), s/veh	0.6	0.2	0.0	1.2	5.4	0.7	0.2	0.0	0.0	4.8	0.0	39.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	0.7	0.0	0.2	11.4	4.4	0.2	0.0	0.0	4.4	0.0	8.8
LnGrp Delay(d),s/veh	28.6	5.7	0.0	48.5	40.4	31.4	38.2	0.0	0.0	44.5	0.0	81.5
LnGrp LOS	C	A		D	D	C	D			D		F
Approach Vol, veh/h		337			1015			7			539	
Approach Delay, s/veh		12.5			38.8			38.2			59.9	
Approach LOS		B			D			D			E	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.0	48.0		22.0	24.6	33.4		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	6.0	44.0		18.0	14.0	36.0		16.0
Max Q Clear Time (g_c+I1), s	13.6	4.4		16.6	7.1	24.6		3.3
Green Ext Time (p_c), s	0.0	1.6		0.4	0.1	4.8		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	40.1
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	238	22	0	406	13	424	35	100	0	0	45
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	251	23	0	427	14	446	37	105	0	0	47
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	823	75	0	878	29	637	53	614	0	0	0
Arrive On Green	0.00	0.48	0.48	0.00	0.48	0.48	0.38	0.38	0.38	0.00	0.00	0.00
Sat Flow, veh/h	0	1715	157	0	1829	60	1677	139	1615		0	
Grp Volume(v), veh/h	0	0	274	0	0	441	483	0	105		0.0	
Grp Sat Flow(s),veh/h/ln	0	0	1872	0	0	1889	1816	0	1615			
Q Serve(g_s), s	0.0	0.0	8.9	0.0	0.0	15.8	22.5	0.0	4.3			
Cycle Q Clear(g_c), s	0.0	0.0	8.9	0.0	0.0	15.8	22.5	0.0	4.3			
Prop In Lane	0.00		0.08	0.00		0.03	0.92		1.00			
Lane Grp Cap(c), veh/h	0	0	899	0	0	907	690	0	614			
V/C Ratio(X)	0.00	0.00	0.30	0.00	0.00	0.49	0.70	0.00	0.17			
Avail Cap(c_a), veh/h	0	0	899	0	0	907	690	0	614			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	15.8	0.0	0.0	17.6	26.2	0.0	20.6			
Incr Delay (d2), s/veh	0.0	0.0	0.9	0.0	0.0	1.9	5.8	0.0	0.6			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	0.0	4.8	0.0	0.0	8.7	12.4	0.0	2.0			
LnGrp Delay(d),s/veh	0.0	0.0	16.7	0.0	0.0	19.5	32.0	0.0	21.2			
LnGrp LOS			B			B	C		C			
Approach Vol, veh/h		274			441			588				
Approach Delay, s/veh		16.7			19.5			30.1				
Approach LOS		B			B			C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		55.0				55.0		45.0
Change Period (Y+Rc), s		4.0				4.0		4.0
Max Green Setting (Gmax), s		41.0				41.0		41.0
Max Q Clear Time (g_c+I1), s		11.9				18.8		25.5
Green Ext Time (p_c), s		4.9				4.6		3.2

Intersection Summary		
HCM 2010 Ctrl Delay		23.7
HCM 2010 LOS		C

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Intersection	
Int Delay, s/veh	6.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	321	24	9	4	40	40	3	30	6	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	353	26	10	4	44	44	3	33	7	0	0	0

Major/Minor	Major1			Major2			Minor1					
Conflicting Flow All	88	0	0	36	0	0	812	834	31			
Stage 1	-	-	-	-	-	-	737	737	-			
Stage 2	-	-	-	-	-	-	75	97	-			
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2			
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-			
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-			
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3			
Pot Cap-1 Maneuver	1520	-	-	1588	-	-	351	306	1049			
Stage 1	-	-	-	-	-	-	477	428	-			
Stage 2	-	-	-	-	-	-	953	819	-			
Platoon blocked, %												
Mov Cap-1 Maneuver	1520	-	-	1588	-	-	267	0	1049			
Mov Cap-2 Maneuver	-	-	-	-	-	-	267	0	-			
Stage 1	-	-	-	-	-	-	364	0	-			
Stage 2	-	-	-	-	-	-	950	0	-			

Approach	EB	WB	NB
HCM Control Delay, s	7.3	0.3	12.4
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	531	1520	-	-	1588	-	-
HCM Lane V/C Ratio	0.081	0.232	-	-	0.003	-	-
HCM Control Delay (s)	12.4	8.1	0	-	7.3	0	-
HCM Lane LOS	B	A	A	-	A	A	-
HCM 95th %tile Q(veh)	0.3	0.9	-	-	0	-	-

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Intersection	
Intersection Delay, s/veh	11.5
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	220	34	0	27	63	0	0	42	0	79
Peak Hour Factor	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	234	36	0	29	67	0	0	45	0	84
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	11.8	9.6	9.3
HCM LOS	B	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	35%	0%	100%	0%	54%
Vol Thru, %	0%	87%	0%	100%	41%
Vol Right, %	65%	13%	0%	0%	5%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	121	254	27	63	302
LT Vol	42	0	27	0	162
Through Vol	0	220	0	63	125
RT Vol	79	34	0	0	15
Lane Flow Rate	129	270	29	67	321
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.183	0.398	0.053	0.113	0.464
Departure Headway (Hd)	5.108	5.297	6.595	6.087	5.197
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	702	681	543	588	694
Service Time	3.144	3.328	4.334	3.826	3.227
HCM Lane V/C Ratio	0.184	0.396	0.053	0.114	0.463
HCM Control Delay	9.3	11.8	9.7	9.6	12.7
HCM Lane LOS	A	B	A	A	B
HCM 95th-tile Q	0.7	1.9	0.2	0.4	2.5

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Intersection				
Intersection Delay, s/veh				
Intersection LOS				

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	162	125	15
Peak Hour Factor	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	172	133	16
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	12.7
HCM LOS	B

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	355	59	138	315	285	0	0	265	21
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				321	198	160	366	331	0	0	308	24
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				409	220	178	694	1204	0	0	611	47
Arrive On Green				0.23	0.23	0.23	0.38	0.63	0.00	0.00	0.18	0.18
Sat Flow, veh/h				1810	974	787	1810	1900	0	0	3490	263
Grp Volume(v), veh/h				321	0	358	366	331	0	0	163	169
Grp Sat Flow(s), veh/h/ln				1810	0	1761	1810	1900	0	0	1805	1854
Q Serve(g_s), s				16.7	0.0	19.7	15.6	7.7	0.0	0.0	8.1	8.2
Cycle Q Clear(g_c), s				16.7	0.0	19.7	15.6	7.7	0.0	0.0	8.1	8.2
Prop In Lane				1.00		0.45	1.00		0.00	0.00		0.14
Lane Grp Cap(c), veh/h				409	0	398	694	1204	0	0	325	334
V/C Ratio(X)				0.78	0.00	0.90	0.53	0.27	0.00	0.00	0.50	0.51
Avail Cap(c_a), veh/h				615	0	599	694	1204	0	0	325	334
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				36.4	0.0	37.6	23.8	8.1	0.0	0.0	37.0	37.0
Incr Delay (d2), s/veh				3.8	0.0	11.8	2.8	0.6	0.0	0.0	5.4	5.4
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln				8.7	0.0	10.8	8.4	4.2	0.0	0.0	4.6	4.7
LnGrp Delay(d),s/veh				40.2	0.0	49.3	26.6	8.7	0.0	0.0	42.4	42.4
LnGrp LOS				D		D	C	A			D	D
Approach Vol, veh/h					679			697			332	
Approach Delay, s/veh					45.0			18.1			42.4	
Approach LOS					D			B			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		70.4			45.4	25.0		29.6
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		55.0			30.0	21.0		37.0
Max Q Clear Time (g_c+I1), s		10.7			18.6	11.2		22.7
Green Ext Time (p_c), s		3.4			2.5	1.3		2.9

Intersection Summary		
HCM 2010 Ctrl Delay		33.5
HCM 2010 LOS		C

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	94	243	100	6	20	32	10	469	413	132	387	65
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	100	259	106	6	21	34	11	499	439	140	412	69
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	368	288	118	101	426	362	227	1756	785	143	1363	227
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22	0.13	0.49	0.49	0.08	0.44	0.44
Sat Flow, veh/h	1370	1282	525	1033	1900	1615	1810	3610	1615	1810	3099	515
Grp Volume(v), veh/h	100	0	365	6	21	34	11	499	439	140	239	242
Grp Sat Flow(s),veh/h/ln	1370	0	1807	1033	1900	1615	1810	1805	1615	1810	1805	1809
Q Serve(g_s), s	6.2	0.0	19.6	0.6	0.9	1.7	0.5	8.2	19.2	7.7	8.5	8.7
Cycle Q Clear(g_c), s	7.0	0.0	19.6	20.2	0.9	1.7	0.5	8.2	19.2	7.7	8.5	8.7
Prop In Lane	1.00		0.29	1.00		1.00	1.00		1.00	1.00		0.28
Lane Grp Cap(c), veh/h	368	0	406	101	426	362	227	1756	785	143	794	796
V/C Ratio(X)	0.27	0.00	0.90	0.06	0.05	0.09	0.05	0.28	0.56	0.98	0.30	0.30
Avail Cap(c_a), veh/h	499	0	578	200	608	517	227	1756	785	290	794	796
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.67	0.67	0.67	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.2	0.0	37.7	47.5	30.4	30.7	38.5	15.3	18.1	45.9	18.1	18.1
Incr Delay (d2), s/veh	0.4	0.0	13.0	0.2	0.0	0.1	0.1	0.3	1.9	29.6	1.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.0	11.2	0.2	0.5	0.8	0.3	4.2	9.0	5.0	4.5	4.5
LnGrp Delay(d),s/veh	33.6	0.0	50.7	47.7	30.5	30.8	38.5	15.6	20.1	75.5	19.0	19.1
LnGrp LOS	C		D	D	C	C	D	B	C	E	B	B
Approach Vol, veh/h		465			61			949			621	
Approach Delay, s/veh		47.0			32.4			17.9			31.8	
Approach LOS		D			C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.9	55.6		29.4	19.6	51.0		29.4
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	10.9	34.0		35.0	6.0	47.0		35.0
Max Q Clear Time (g_c+I1), s	10.7	22.2		22.6	3.5	11.7		23.2
Green Ext Time (p_c), s	0.2	4.0		2.3	0.0	3.2		2.2

Intersection Summary	
HCM 2010 Ctrl Delay	28.9
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	371	745	20	21	167	35	40	243	118	59	75	214
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	412	828	22	23	186	39	44	270	131	66	83	238
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	597	1617	43	36	418	86	128	387	188	127	142	517
Arrive On Green	0.33	0.45	0.45	0.04	0.28	0.28	0.32	0.32	0.32	0.11	0.11	0.11
Sat Flow, veh/h	1810	3593	95	1810	2984	613	1075	1210	587	234	444	1615
Grp Volume(v), veh/h	412	416	434	23	111	114	44	0	401	149	0	238
Grp Sat Flow(s),veh/h/ln	1810	1805	1883	1810	1805	1792	1075	0	1796	678	0	1615
Q Serve(g_s), s	19.8	16.5	16.5	1.3	5.0	5.2	4.0	0.0	19.5	7.3	0.0	13.9
Cycle Q Clear(g_c), s	19.8	16.5	16.5	1.3	5.0	5.2	30.9	0.0	19.5	26.8	0.0	13.9
Prop In Lane	1.00		0.05	1.00		0.34	1.00		0.33	0.44		1.00
Lane Grp Cap(c), veh/h	597	812	847	36	253	251	128	0	575	269	0	517
V/C Ratio(X)	0.69	0.51	0.51	0.64	0.44	0.45	0.34	0.00	0.70	0.55	0.00	0.46
Avail Cap(c_a), veh/h	597	812	847	90	253	251	128	0	575	269	0	517
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	0.33	0.33	0.33
Upstream Filter(I)	1.00	1.00	1.00	0.99	0.99	0.99	1.00	0.00	1.00	0.98	0.00	0.98
Uniform Delay (d), s/veh	29.1	19.7	19.7	47.6	32.8	32.8	46.9	0.0	29.8	45.0	0.0	36.6
Incr Delay (d2), s/veh	3.4	2.3	2.2	16.9	5.4	5.8	7.2	0.0	6.9	7.9	0.0	2.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.4	8.7	9.1	0.8	2.8	3.0	1.5	0.0	10.8	4.6	0.0	6.6
LnGrp Delay(d),s/veh	32.4	22.0	21.9	64.5	38.2	38.6	54.1	0.0	36.6	52.9	0.0	39.5
LnGrp LOS	C	C	C	E	D	D	D		D	D		D
Approach Vol, veh/h		1262			248			445			387	
Approach Delay, s/veh		25.3			40.8			38.4			44.6	
Approach LOS		C			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	52.0		39.0	40.0	21.0		39.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	8.0	45.0		35.0	36.0	17.0		35.0
Max Q Clear Time (g_c+I1), s	11.3	19.5		29.8	22.8	8.2		33.9
Green Ext Time (p_c), s	0.0	7.5		2.1	5.7	0.7		0.6

Intersection Summary	
HCM 2010 Ctrl Delay	32.6
HCM 2010 LOS	C

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Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	0	0	0	8	27	13	24	210	0	0	114	9
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	8	28	14	25	221	0	0	120	9

Major/Minor	Minor1			Major1			Major2		
Conflicting Flow All	397	401	221	129	0	0	221	0	0
Stage 1	272	272	-	-	-	-	-	-	-
Stage 2	125	129	-	-	-	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	612	541	824	1469	-	-	1360	-	-
Stage 1	778	688	-	-	-	-	-	-	-
Stage 2	906	793	-	-	-	-	-	-	-
Platoon blocked, %									
Mov Cap-1 Maneuver	600	0	824	1469	-	-	1360	-	-
Mov Cap-2 Maneuver	763	0	-	-	-	-	-	-	-
Stage 1	763	0	-	-	-	-	-	-	-
Stage 2	906	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	9.8	0.8	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1469	-	-	800	1360	-	-
HCM Lane V/C Ratio	0.017	-	-	0.063	-	-	-
HCM Control Delay (s)	7.5	0	-	9.8	0	-	-
HCM Lane LOS	A	A	-	A	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.2	0	-	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	93	896	7	22	193	15	11	41	38	23	23	20
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	102	985	8	24	212	16	12	45	42	25	25	22
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	163	1615	13	36	1260	94	28	104	97	80	80	70
Arrive On Green	0.09	0.44	0.44	0.02	0.37	0.37	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	1810	3670	30	1810	3405	255	213	799	746	616	616	542
Grp Volume(v), veh/h	102	484	509	24	112	116	99	0	0	72	0	0
Grp Sat Flow(s), veh/h/ln	1810	1805	1895	1810	1805	1855	1758	0	0	1774	0	0
Q Serve(g_s), s	5.4	20.5	20.5	1.3	4.2	4.2	5.2	0.0	0.0	3.7	0.0	0.0
Cycle Q Clear(g_c), s	5.4	20.5	20.5	1.3	4.2	4.2	5.2	0.0	0.0	3.7	0.0	0.0
Prop In Lane	1.00		0.02	1.00		0.14	0.12		0.42	0.35		0.31
Lane Grp Cap(c), veh/h	163	794	834	36	668	686	229	0	0	231	0	0
V/C Ratio(X)	0.63	0.61	0.61	0.66	0.17	0.17	0.43	0.00	0.00	0.31	0.00	0.00
Avail Cap(c_a), veh/h	163	794	834	90	668	686	229	0	0	231	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.87	0.87	0.87	0.98	0.98	0.98	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	43.9	21.4	21.4	48.7	21.2	21.2	40.1	0.0	0.0	39.4	0.0	0.0
Incr Delay (d2), s/veh	6.5	3.0	2.9	18.6	0.5	0.5	5.9	0.0	0.0	3.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	10.9	11.4	0.8	2.2	2.3	2.9	0.0	0.0	2.0	0.0	0.0
LnGrp Delay(d),s/veh	50.3	24.5	24.3	67.2	21.7	21.7	46.0	0.0	0.0	43.0	0.0	0.0
LnGrp LOS	D	C	C	E	C	C	D			D		
Approach Vol, veh/h		1095			252			99			72	
Approach Delay, s/veh		26.8			26.0			46.0			43.0	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	51.0		20.0	16.0	44.0		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	8.0	44.0		16.0	12.0	40.0		16.0
Max Q Clear Time (g_c+I1), s	4.3	23.5		6.7	8.4	7.2		8.2
Green Ext Time (p_c), s	0.0	6.9		0.2	1.3	1.3		0.2

Intersection Summary	
HCM 2010 Ctrl Delay	28.7
HCM 2010 LOS	C

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Intersection												
Int Delay, s/veh	56.8											

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	2	3	23	262	11	150	4	271	46	58	467	3
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	Yield	-	-	None	-	-	None
Storage Length	-	-	-	-	-	25	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	3	25	285	12	163	4	295	50	63	508	3

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	969	988	509	977	965	320	511	0	0	345	0	0
Stage 1	635	635	-	328	328	-	-	-	-	-	-	-
Stage 2	334	353	-	649	637	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	235	249	568	~ 232	257	725	1065	-	-	1225	-	-
Stage 1	470	476	-	689	651	-	-	-	-	-	-	-
Stage 2	684	634	-	462	475	-	-	-	-	-	-	-
Platoon blocked, %												
Mov Cap-1 Maneuver	165	230	568	~ 207	237	725	1065	-	-	1225	-	-
Mov Cap-2 Maneuver	165	230	-	~ 207	237	-	-	-	-	-	-	-
Stage 1	468	442	-	686	648	-	-	-	-	-	-	-
Stage 2	518	631	-	407	441	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	14.1	172.4	0.1	0.9
HCM LOS	B	F		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1065	-	-	426	208	725	1225	-	-
HCM Lane V/C Ratio	0.004	-	-	0.071	1.427	0.225	0.051	-	-
HCM Control Delay (s)	8.4	0	-	14.1	260.9	11.4	8.1	0	-
HCM Lane LOS	A	A	-	B	F	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	17.5	0.9	0.2	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

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Intersection						
Int Delay, s/veh	9.5					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	82	185	144	252	380	365
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	89	201	157	274	413	397

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1380	157	0	0	157	0
Stage 1	157	-	-	-	-	-
Stage 2	1223	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	161	894	-	-	1435	-
Stage 1	876	-	-	-	-	-
Stage 2	281	-	-	-	-	-
Platoon blocked, %			-	-		
Mov Cap-1 Maneuver	115	894	-	-	1435	-
Mov Cap-2 Maneuver	115	-	-	-	-	-
Stage 1	876	-	-	-	-	-
Stage 2	200	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	38.3	0	4.3
HCM LOS	E		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	115	894	1435	-
HCM Lane V/C Ratio	-	-	0.775	0.225	0.288	-
HCM Control Delay (s)	-	-	101.8	10.2	8.5	-
HCM Lane LOS	-	-	F	B	A	-
HCM 95th %tile Q(veh)	-	-	4.4	0.9	1.2	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	100	422	98	194	340	170	22	98	71	65	193	107
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	105	444	103	204	358	179	23	103	75	68	203	113
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	106	1093	252	209	516	258	118	495	354	112	287	149
Arrive On Green	0.06	0.37	0.37	0.12	0.43	0.43	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	1810	2915	671	1810	1196	598	247	1650	1181	233	956	496
Grp Volume(v), veh/h	105	274	273	204	0	537	104	0	97	384	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1782	1810	0	1794	1558	0	1521	1684	0	0
Q Serve(g_s), s	5.8	11.2	11.3	11.2	0.0	24.3	0.0	0.0	4.7	14.3	0.0	0.0
Cycle Q Clear(g_c), s	5.8	11.2	11.3	11.2	0.0	24.3	4.1	0.0	4.7	20.4	0.0	0.0
Prop In Lane	1.00		0.38	1.00		0.33	0.22		0.78	0.18		0.29
Lane Grp Cap(c), veh/h	106	676	668	209	0	774	511	0	456	548	0	0
V/C Ratio(X)	0.99	0.40	0.41	0.98	0.00	0.69	0.20	0.00	0.21	0.70	0.00	0.00
Avail Cap(c_a), veh/h	181	676	668	344	0	774	511	0	456	548	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.95	0.00	0.95	1.00	0.00	0.00
Uniform Delay (d), s/veh	47.0	23.0	23.1	44.1	0.0	23.1	25.9	0.0	26.2	31.5	0.0	0.0
Incr Delay (d2), s/veh	48.0	1.8	1.9	32.5	0.0	5.1	0.9	0.0	1.0	7.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	5.9	5.9	7.5	0.0	13.0	2.3	0.0	2.1	10.7	0.0	0.0
LnGrp Delay(d),s/veh	95.0	24.8	24.9	76.7	0.0	28.2	26.8	0.0	27.2	38.8	0.0	0.0
LnGrp LOS	F	C	C	E		C	C		C	D		
Approach Vol, veh/h		652			741			201			384	
Approach Delay, s/veh		36.2			41.5			27.0			38.8	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.5	44.5		37.0	12.9	50.1		37.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	22.0	33.0		33.0	13.0	42.0		33.0
Max Q Clear Time (g_c+I1), s	14.2	14.3		23.4	8.8	27.3		7.7
Green Ext Time (p_c), s	0.3	7.0		2.6	0.1	6.2		4.0

Intersection Summary	
HCM 2010 Ctrl Delay	37.7
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	27	214	9	11	12	42	5	611	341	202	755	20
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	29	228	10	12	13	45	5	650	363	215	803	21
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	231	265	12	99	55	190	223	1880	841	222	1869	49
Arrive On Green	0.15	0.15	0.15	0.15	0.15	0.15	0.12	0.52	0.52	0.12	0.52	0.52
Sat Flow, veh/h	1366	1807	79	1160	375	1297	1810	3610	1615	1810	3594	94
Grp Volume(v), veh/h	29	0	238	12	0	58	5	650	363	215	403	421
Grp Sat Flow(s),veh/h/ln	1366	0	1886	1160	0	1671	1810	1805	1615	1810	1805	1883
Q Serve(g_s), s	1.9	0.0	12.3	1.0	0.0	3.1	0.2	10.5	13.9	11.8	13.8	13.8
Cycle Q Clear(g_c), s	5.0	0.0	12.3	13.3	0.0	3.1	0.2	10.5	13.9	11.8	13.8	13.8
Prop In Lane	1.00		0.04	1.00		0.78	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	231	0	277	99	0	245	223	1880	841	222	939	979
V/C Ratio(X)	0.13	0.00	0.86	0.12	0.00	0.24	0.02	0.35	0.43	0.97	0.43	0.43
Avail Cap(c_a), veh/h	358	0	453	207	0	401	223	1880	841	434	939	979
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.64	0.64	0.64	0.51	0.51	0.51
Uniform Delay (d), s/veh	39.9	0.0	41.7	48.2	0.0	37.7	38.5	14.0	14.8	43.7	14.8	14.8
Incr Delay (d2), s/veh	0.2	0.0	9.0	0.5	0.0	0.5	0.0	0.3	1.0	14.1	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	7.1	0.3	0.0	1.5	0.1	5.3	6.4	6.8	7.0	7.3
LnGrp Delay(d),s/veh	40.2	0.0	50.6	48.7	0.0	38.2	38.6	14.3	15.9	57.8	15.6	15.5
LnGrp LOS	D		D	D		D	D	B	B	E	B	B
Approach Vol, veh/h		267			70			1018			1039	
Approach Delay, s/veh		49.5			40.0			15.0			24.3	
Approach LOS		D			D			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.3	59.1		21.7	19.3	59.0		21.7
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	27.6	34.0		27.0	6.0	55.0		27.0
Max Q Clear Time (g_c+I1), s	14.8	16.9		15.3	3.2	16.8		16.3
Green Ext Time (p_c), s	0.5	5.5		1.4	0.0	6.1		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	23.6
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	283	725	1	1	140	242	1	9	5	138	1	49
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	314	806	1	1	156	269	1	10	6	153	1	54
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	320	1628	2	36	1021	457	14	136	82	456	4	207
Arrive On Green	0.35	0.88	0.88	0.02	0.28	0.28	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	1810	3700	5	1810	3610	1615	105	1049	630	3510	29	1590
Grp Volume(v), veh/h	314	393	414	1	156	269	17	0	0	153	0	55
Grp Sat Flow(s),veh/h/ln	1810	1805	1899	1810	1805	1615	1784	0	0	1755	0	1619
Q Serve(g_s), s	17.2	4.6	4.6	0.1	3.2	14.3	0.8	0.0	0.0	4.0	0.0	3.1
Cycle Q Clear(g_c), s	17.2	4.6	4.6	0.1	3.2	14.3	0.8	0.0	0.0	4.0	0.0	3.1
Prop In Lane	1.00		0.00	1.00		1.00	0.06		0.35	1.00		0.98
Lane Grp Cap(c), veh/h	320	794	836	36	1021	457	232	0	0	456	0	211
V/C Ratio(X)	0.98	0.50	0.50	0.03	0.15	0.59	0.07	0.00	0.00	0.34	0.00	0.26
Avail Cap(c_a), veh/h	434	794	836	36	1021	457	232	0	0	456	0	211
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.80	0.80	0.80	1.00	1.00	1.00	1.00	0.00	0.00	0.95	0.00	0.95
Uniform Delay (d), s/veh	32.1	3.6	3.6	48.0	26.9	30.8	38.2	0.0	0.0	39.6	0.0	39.2
Incr Delay (d2), s/veh	29.2	1.8	1.7	0.3	0.1	2.0	0.6	0.0	0.0	1.9	0.0	2.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.0	2.4	2.5	0.0	1.6	6.6	0.5	0.0	0.0	2.0	0.0	1.5
LnGrp Delay(d),s/veh	61.3	5.4	5.3	48.4	26.9	32.8	38.8	0.0	0.0	41.5	0.0	42.0
LnGrp LOS	E	A	A	D	C	C	D			D		D
Approach Vol, veh/h		1121			426			17			208	
Approach Delay, s/veh		21.0			30.7			38.8			41.6	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	51.0		20.0	24.7	35.3		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	5.0	47.0		16.0	27.0	25.0		16.0
Max Q Clear Time (g_c+I1), s	13.1	7.6		7.0	20.2	17.3		3.8
Green Ext Time (p_c), s	0.0	5.9		0.5	0.6	1.2		0.0

Intersection Summary		
HCM 2010 Ctrl Delay		25.9
HCM 2010 LOS		C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	518	45	0	309	21	331	33	129	0	0	52
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	545	47	0	325	22	348	35	136	0	0	55
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	605	52	0	617	42	841	85	823	0	0	0
Arrive On Green	0.00	0.35	0.35	0.00	0.35	0.35	0.51	0.51	0.51	0.00	0.00	0.00
Sat Flow, veh/h	0	1725	149	0	1760	119	1651	166	1615		0	
Grp Volume(v), veh/h	0	0	592	0	0	347	383	0	136		0.0	
Grp Sat Flow(s),veh/h/ln	0	0	1874	0	0	1879	1817	0	1615			
Q Serve(g_s), s	0.0	0.0	30.0	0.0	0.0	14.7	13.1	0.0	4.5			
Cycle Q Clear(g_c), s	0.0	0.0	30.0	0.0	0.0	14.7	13.1	0.0	4.5			
Prop In Lane	0.00		0.08	0.00		0.06	0.91		1.00			
Lane Grp Cap(c), veh/h	0	0	657	0	0	659	926	0	823			
V/C Ratio(X)	0.00	0.00	0.90	0.00	0.00	0.53	0.41	0.00	0.17			
Avail Cap(c_a), veh/h	0	0	806	0	0	808	926	0	823			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	30.8	0.0	0.0	25.9	15.3	0.0	13.1			
Incr Delay (d2), s/veh	0.0	0.0	11.6	0.0	0.0	0.7	1.4	0.0	0.4			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	0.0	17.6	0.0	0.0	7.7	6.8	0.0	2.1			
LnGrp Delay(d),s/veh	0.0	0.0	42.4	0.0	0.0	26.5	16.6	0.0	13.6			
LnGrp LOS			D			C	B		B			
Approach Vol, veh/h		592			347			519				
Approach Delay, s/veh		42.4			26.5			15.8				
Approach LOS		D			C			B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		57.9		42.1				42.1
Change Period (Y+Rc), s		4.0		4.0				4.0
Max Green Setting (Gmax), s		36.0		46.0				46.0
Max Q Clear Time (g_c+I1), s		16.1		33.0				17.7
Green Ext Time (p_c), s		2.8		5.1				7.0

Intersection Summary	
HCM 2010 Ctrl Delay	29.1
HCM 2010 LOS	C

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Intersection												
Int Delay, s/veh	27.3											

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Vol, veh/h	718	58	12	5	42	77	8	50	7	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	825	67	14	6	48	89	9	57	8	0	0	0

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	137	0	0	80	0	0	1828	1872	74
Stage 1	-	-	-	-	-	-	1724	1724	-
Stage 2	-	-	-	-	-	-	104	148	-
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3
Pot Cap-1 Maneuver	1459	-	-	1531	-	-	85	73	993
Stage 1	-	-	-	-	-	-	160	145	-
Stage 2	-	-	-	-	-	-	925	779	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1459	-	-	1531	-	-	34	0	993
Mov Cap-2 Maneuver	-	-	-	-	-	-	34	0	-
Stage 1	-	-	-	-	-	-	65	0	-
Stage 2	-	-	-	-	-	-	921	0	-

Approach	EB	WB	NB
HCM Control Delay, s	9.7	0.3	292.5
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	62	1459	-	-	1531	-	-
HCM Lane V/C Ratio	1.205	0.566	-	-	0.004	-	-
HCM Control Delay (s)	292.5	10.6	0	-	7.4	0	-
HCM Lane LOS	F	B	A	-	A	A	-
HCM 95th %tile Q(veh)	6.1	3.7	-	-	0	-	-

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APPENDIX I

EXISTING PLUS CONSTRUCTION HCM WORKSHEETS

Intersection	
Intersection Delay, s/veh	11.1
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	103	9	0	48	115	0	0	14	0	36
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	112	10	0	52	125	0	0	15	0	39
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	9.5	9.8	8.3
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	28%	0%	100%	0%	30%
Vol Thru, %	0%	92%	0%	100%	65%
Vol Right, %	72%	8%	0%	0%	5%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	50	112	48	115	349
LT Vol	0	103	0	115	226
Through Vol	36	9	0	0	18
RT Vol	14	0	48	0	105
Lane Flow Rate	54	122	52	125	379
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.073	0.178	0.09	0.198	0.504
Departure Headway (Hd)	4.803	5.268	6.196	5.691	4.782
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	735	672	573	624	747
Service Time	2.901	3.367	3.99	3.484	2.845
HCM Lane V/C Ratio	0.073	0.182	0.091	0.2	0.507
HCM Control Delay	8.3	9.5	9.6	9.9	12.7
HCM Lane LOS	A	A	A	A	B
HCM 95th-tile Q	0.2	0.6	0.3	0.7	2.9

Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	105	226	18
Peak Hour Factor	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	114	246	20
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	12.7
HCM LOS	B

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	593	126	72	137	105	0	0	215	21
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				416	423	76	144	111	0	0	226	22
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				538	466	84	409	1001	0	0	710	68
Arrive On Green				0.30	0.30	0.30	0.23	0.53	0.00	0.00	0.21	0.21
Sat Flow, veh/h				1810	1568	282	1810	1900	0	0	3422	321
Grp Volume(v), veh/h				416	0	499	144	111	0	0	122	126
Grp Sat Flow(s), veh/h/ln				1810	0	1850	1810	1900	0	0	1805	1843
Q Serve(g_s), s				16.7	0.0	20.7	5.3	2.3	0.0	0.0	4.5	4.6
Cycle Q Clear(g_c), s				16.7	0.0	20.7	5.3	2.3	0.0	0.0	4.5	4.6
Prop In Lane				1.00		0.15	1.00		0.00	0.00		0.17
Lane Grp Cap(c), veh/h				538	0	550	409	1001	0	0	385	393
V/C Ratio(X)				0.77	0.00	0.91	0.35	0.11	0.00	0.00	0.32	0.32
Avail Cap(c_a), veh/h				999	0	1021	409	1001	0	0	385	393
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				25.5	0.0	26.9	25.9	9.5	0.0	0.0	26.4	26.5
Incr Delay (d2), s/veh				2.4	0.0	6.0	2.4	0.2	0.0	0.0	2.1	2.2
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln				8.7	0.0	11.5	2.9	1.3	0.0	0.0	2.5	2.6
LnGrp Delay(d),s/veh				27.9	0.0	33.0	28.3	9.7	0.0	0.0	28.6	28.6
LnGrp LOS				C		C	C	A			C	C
Approach Vol, veh/h					915			255			248	
Approach Delay, s/veh					30.7			20.2			28.6	
Approach LOS					C			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		69.3			25.0	44.3		30.7
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		45.0			21.0	20.0		47.0
Max Q Clear Time (g_c+I1), s		5.3			8.3	7.6		23.7
Green Ext Time (p_c), s		2.2			0.3	1.6		3.0

Intersection Summary		
HCM 2010 Ctrl Delay		28.4
HCM 2010 LOS		C

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	70	110	66	18	25	22	21	184	144	82	581	98
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	74	117	70	19	27	23	22	196	153	87	618	104
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	264	151	91	136	258	219	47	1702	761	213	1742	293
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.03	0.47	0.47	0.12	0.56	0.56
Sat Flow, veh/h	1376	1115	667	1215	1900	1615	1810	3610	1615	1810	3094	520
Grp Volume(v), veh/h	74	0	187	19	27	23	22	196	153	87	360	362
Grp Sat Flow(s), veh/h/ln	1376	0	1782	1215	1900	1615	1810	1805	1615	1810	1805	1808
Q Serve(g_s), s	3.8	0.0	7.7	1.2	1.0	1.0	0.9	2.3	4.2	3.4	8.3	8.3
Cycle Q Clear(g_c), s	4.8	0.0	7.7	8.9	1.0	1.0	0.9	2.3	4.2	3.4	8.3	8.3
Prop In Lane	1.00		0.37	1.00		1.00	1.00		1.00	1.00		0.29
Lane Grp Cap(c), veh/h	264	0	242	136	258	219	47	1702	761	213	1016	1018
V/C Ratio(X)	0.28	0.00	0.77	0.14	0.10	0.10	0.46	0.12	0.20	0.41	0.35	0.36
Avail Cap(c_a), veh/h	564	0	630	401	672	571	213	1702	761	379	1016	1018
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.92	0.92	0.92	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.0	0.0	31.9	36.2	28.9	28.9	36.7	11.3	11.8	31.2	9.1	9.1
Incr Delay (d2), s/veh	0.6	0.0	5.2	0.5	0.2	0.2	6.4	0.1	0.5	1.3	1.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	4.1	0.4	0.5	0.4	0.5	1.2	2.0	1.8	4.4	4.4
LnGrp Delay(d),s/veh	31.6	0.0	37.1	36.6	29.1	29.1	43.0	11.4	12.3	32.5	10.1	10.1
LnGrp LOS	C		D	D	C	C	D	B	B	C	B	B
Approach Vol, veh/h		261			69			371			809	
Approach Delay, s/veh		35.5			31.2			13.7			12.5	
Approach LOS		D			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	39.6	43.0		17.4	32.6	50.0		17.4
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	19.0	39.0		30.0	12.0	46.0		30.0
Max Q Clear Time (g_c+I1), s	6.4	7.2		10.7	3.9	11.3		11.9
Green Ext Time (p_c), s	0.2	1.8		1.5	0.1	5.2		1.5

Intersection Summary	
HCM 2010 Ctrl Delay	17.6
HCM 2010 LOS	B

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	98	146	29	33	534	53	12	46	18	39	97	295
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	109	162	32	37	593	59	13	51	20	43	108	328
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	194	1347	261	40	1199	119	332	401	157	173	411	498
Arrive On Green	0.11	0.45	0.45	0.04	0.72	0.72	0.31	0.31	0.31	0.51	0.51	0.51
Sat Flow, veh/h	1810	3018	584	1810	3317	329	968	1300	510	402	1335	1615
Grp Volume(v), veh/h	109	96	98	37	322	330	13	0	71	151	0	328
Grp Sat Flow(s),veh/h/ln	1810	1805	1797	1810	1805	1842	968	0	1810	1737	0	1615
Q Serve(g_s), s	5.4	2.9	3.0	1.9	7.2	7.3	0.9	0.0	2.7	0.0	0.0	14.0
Cycle Q Clear(g_c), s	5.4	2.9	3.0	1.9	7.2	7.3	5.1	0.0	2.7	4.2	0.0	14.0
Prop In Lane	1.00		0.32	1.00		0.18	1.00		0.28	0.28		1.00
Lane Grp Cap(c), veh/h	194	806	802	40	652	666	332	0	558	584	0	498
V/C Ratio(X)	0.56	0.12	0.12	0.92	0.49	0.50	0.04	0.00	0.13	0.26	0.00	0.66
Avail Cap(c_a), veh/h	308	806	802	154	652	666	332	0	558	584	0	498
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.67	1.67	1.67
Upstream Filter(I)	1.00	1.00	1.00	0.90	0.90	0.90	1.00	0.00	1.00	0.97	0.00	0.97
Uniform Delay (d), s/veh	39.9	15.2	15.3	44.9	9.3	9.3	25.8	0.0	23.4	16.8	0.0	19.2
Incr Delay (d2), s/veh	2.5	0.3	0.3	44.9	2.4	2.4	0.2	0.0	0.5	1.0	0.0	6.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	1.5	1.6	1.4	3.8	3.9	0.3	0.0	1.4	2.4	0.0	7.0
LnGrp Delay(d),s/veh	42.4	15.5	15.6	89.8	11.7	11.7	26.1	0.0	23.9	17.8	0.0	25.7
LnGrp LOS	D	B	B	F	B	B	C		C	B		C
Approach Vol, veh/h		303			689			84			479	
Approach Delay, s/veh		25.2			15.9			24.2			23.2	
Approach LOS		C			B			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.0	49.0		36.0	23.0	41.0		36.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	11.0	45.0		32.0	19.0	37.0		32.0
Max Q Clear Time (g_c+I1), s	4.9	6.0		17.0	8.4	10.3		8.1
Green Ext Time (p_c), s	0.2	1.2		2.2	0.3	4.3		2.5

Intersection Summary	
HCM 2010 Ctrl Delay	20.4
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	1.7								
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	0	0	0	13	23	10	3	107	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	86	86	86	86	86	86
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	15	27	12	3	124	0

Major/Minor	Minor1			Major1		
Conflicting Flow All	273	279	124	148	0	0
Stage 1	131	131	-	-	-	-
Stage 2	142	148	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	721	632	932	1446	-	-
Stage 1	900	792	-	-	-	-
Stage 2	890	779	-	-	-	-
Platoon blocked, %						
Mov Cap-1 Maneuver	720	0	932	1446	-	-
Mov Cap-2 Maneuver	720	0	-	-	-	-
Stage 1	898	0	-	-	-	-
Stage 2	890	0	-	-	-	-

Approach	WB	NB
HCM Control Delay, s	9.8	0.2
HCM LOS	A	

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1446	-	-	799	1475	-	-
HCM Lane V/C Ratio	0.002	-	-	0.067	-	-	-
HCM Control Delay (s)	7.5	0	-	9.8	0	-	-
HCM Lane LOS	A	A	-	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	118	9
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	86	86	86
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	137	10

Major/Minor	Major2		
Conflicting Flow All	124	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1475	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1475	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0
HCM LOS	

Minor Lane/Major Mvmt

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	8	148	23	64	588	14	9	33	73	6	52	31
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	9	170	26	74	676	16	10	38	84	7	60	36
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87	0.87
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	37	909	137	149	1264	30	23	86	190	20	171	103
Arrive On Green	0.02	0.29	0.29	0.08	0.35	0.35	0.18	0.18	0.18	0.16	0.16	0.16
Sat Flow, veh/h	1810	3148	474	1810	3605	85	129	490	1083	121	1039	624
Grp Volume(v), veh/h	9	96	100	74	338	354	132	0	0	103	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1816	1810	1805	1885	1702	0	0	1784	0	0
Q Serve(g_s), s	0.5	3.9	4.0	3.8	14.5	14.5	6.7	0.0	0.0	5.0	0.0	0.0
Cycle Q Clear(g_c), s	0.5	3.9	4.0	3.8	14.5	14.5	6.7	0.0	0.0	5.0	0.0	0.0
Prop In Lane	1.00		0.26	1.00		0.05	0.08		0.64	0.07		0.35
Lane Grp Cap(c), veh/h	37	521	524	149	633	661	298	0	0	294	0	0
V/C Ratio(X)	0.24	0.18	0.19	0.50	0.53	0.54	0.44	0.00	0.00	0.35	0.00	0.00
Avail Cap(c_a), veh/h	93	521	524	205	633	661	298	0	0	294	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.75	0.75	0.75	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	46.8	25.9	26.0	42.6	25.2	25.2	35.8	0.0	0.0	35.9	0.0	0.0
Incr Delay (d2), s/veh	3.3	0.8	0.8	1.9	2.4	2.3	4.7	0.0	0.0	3.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.0	2.1	2.0	7.7	8.0	3.5	0.0	0.0	2.7	0.0	0.0
LnGrp Delay(d),s/veh	50.0	26.7	26.8	44.5	27.6	27.5	40.5	0.0	0.0	39.1	0.0	0.0
LnGrp LOS	D	C	C	D	C	C	D			D		
Approach Vol, veh/h		205			766			132			103	
Approach Delay, s/veh		27.8			29.2			40.5			39.1	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	18.0	35.0		23.0	9.0	44.0		24.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	14.0	31.0		19.0	8.0	37.0		20.0
Max Q Clear Time (g_c+I1), s	6.8	7.0		8.0	3.5	17.5		9.7
Green Ext Time (p_c), s	2.6	1.1		0.3	0.0	4.4		0.4

Intersection Summary	
HCM 2010 Ctrl Delay	31.0
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	6.3								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	1	1	10	92	6	317	5	242	54
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	Yeild	-	-	None
Storage Length	-	-	-	-	-	25	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	88	88	88	88	88	88	88	88
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	1	1	11	105	7	360	6	275	61

Major/Minor	Minor2			Minor1			Major1		
Conflicting Flow All	715	743	395	718	714	306	397	0	0
Stage 1	395	395	-	317	317	-	-	-	-
Stage 2	320	348	-	401	397	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	348	346	659	347	359	739	1173	-	-
Stage 1	634	608	-	698	658	-	-	-	-
Stage 2	696	638	-	630	607	-	-	-	-
Platoon blocked, %								-	-
Mov Cap-1 Maneuver	175	344	659	339	357	739	1173	-	-
Mov Cap-2 Maneuver	175	344	-	339	357	-	-	-	-
Stage 1	630	608	-	694	654	-	-	-	-
Stage 2	351	634	-	618	607	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	12.3	15.9	0.1
HCM LOS	B	C	

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1173	-	-	504	340	739	1235	-	-
HCM Lane V/C Ratio	0.005	-	-	0.027	0.328	0.487	-	-	-
HCM Control Delay (s)	8.1	0	-	12.3	20.7	14.4	0	-	-
HCM Lane LOS	A	A	-	B	C	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	1.4	2.7	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	346	3
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	88	88	88
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	393	3

Major/Minor	Major2		
Conflicting Flow All	336	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1235	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1235	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0
HCM LOS	

Minor Lane/Major Mvmt

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Intersection						
Int Delay, s/veh	4					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	37	92	215	213	253	234
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	89	89	89	89	89	89
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	42	103	242	239	284	263

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1073	242	0	0	242	0
Stage 1	242	-	-	-	-	-
Stage 2	831	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	246	802	-	-	1336	-
Stage 1	803	-	-	-	-	-
Stage 2	431	-	-	-	-	-
Platoon blocked, %				-		-
Mov Cap-1 Maneuver	194	802	-	-	1336	-
Mov Cap-2 Maneuver	194	-	-	-	-	-
Stage 1	803	-	-	-	-	-
Stage 2	339	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	15.4	0	4.4
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	194	802	1336	-
HCM Lane V/C Ratio	-	-	0.214	0.129	0.213	-
HCM Control Delay (s)	-	-	28.5	10.2	8.4	-
HCM Lane LOS	-	-	D	B	A	-
HCM 95th %tile Q(veh)	-	-	0.8	0.4	0.8	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	89	167	21	91	575	63	50	60	14	23	103	235
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	94	176	22	96	605	66	53	63	15	24	108	247
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	95	1495	184	98	780	85	184	362	86	55	142	294
Arrive On Green	0.05	0.46	0.46	0.05	0.46	0.46	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	1810	3235	399	1810	1684	184	411	1351	322	56	530	1097
Grp Volume(v), veh/h	94	97	101	96	0	671	53	0	78	379	0	0
Grp Sat Flow(s), veh/h/ln	1810	1805	1830	1810	0	1868	411	0	1672	1683	0	0
Q Serve(g_s), s	5.0	3.0	3.0	5.1	0.0	29.2	0.0	0.0	3.5	8.5	0.0	0.0
Cycle Q Clear(g_c), s	5.0	3.0	3.0	5.1	0.0	29.2	19.6	0.0	3.5	20.6	0.0	0.0
Prop In Lane	1.00		0.22	1.00		0.10	1.00		0.19	0.06		0.65
Lane Grp Cap(c), veh/h	95	834	845	98	0	866	184	0	448	490	0	0
V/C Ratio(X)	0.99	0.12	0.12	0.98	0.00	0.78	0.29	0.00	0.17	0.77	0.00	0.00
Avail Cap(c_a), veh/h	149	834	845	205	0	866	184	0	448	490	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.99	0.00	0.99	1.00	0.00	0.00
Uniform Delay (d), s/veh	46.0	14.9	14.9	45.9	0.0	21.8	33.2	0.0	27.3	33.5	0.0	0.0
Incr Delay (d2), s/veh	57.7	0.3	0.3	38.5	0.0	6.7	3.9	0.0	0.8	11.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.0	1.6	1.6	3.6	0.0	16.5	1.5	0.0	1.7	11.1	0.0	0.0
LnGrp Delay(d),s/veh	103.7	15.1	15.2	84.4	0.0	28.5	37.1	0.0	28.1	44.8	0.0	0.0
LnGrp LOS	F	B	B	F		C	D		C	D		
Approach Vol, veh/h		292			767			131			379	
Approach Delay, s/veh		43.6			35.5			31.7			44.8	
Approach LOS		D			D			C			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.2	54.8		33.0	12.1	54.9		33.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	14.0	45.0		29.0	11.0	48.0		29.0
Max Q Clear Time (g_c+I1), s	8.1	6.0		23.6	8.0	32.2		22.6
Green Ext Time (p_c), s	0.1	7.1		1.6	0.0	5.3		1.8

Intersection Summary	
HCM 2010 Ctrl Delay	39.0
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	24	53	4	9	13	47	10	370	54	89	565	29
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	26	56	4	10	14	50	11	394	57	95	601	31
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	126	108	8	135	22	80	47	1647	737	377	2231	115
Arrive On Green	0.06	0.06	0.06	0.06	0.06	0.06	0.03	0.46	0.46	0.21	0.64	0.64
Sat Flow, veh/h	1359	1753	125	1364	365	1305	1810	3610	1615	1810	3493	180
Grp Volume(v), veh/h	26	0	60	10	0	64	11	394	57	95	310	322
Grp Sat Flow(s), veh/h/ln	1359	0	1878	1364	0	1670	1810	1805	1615	1810	1805	1868
Q Serve(g_s), s	1.5	0.0	2.4	0.5	0.0	2.9	0.5	5.1	1.5	3.4	5.8	5.8
Cycle Q Clear(g_c), s	4.3	0.0	2.4	2.9	0.0	2.9	0.5	5.1	1.5	3.4	5.8	5.8
Prop In Lane	1.00		0.07	1.00		0.78	1.00		1.00	1.00		0.10
Lane Grp Cap(c), veh/h	126	0	115	135	0	102	47	1647	737	377	1153	1193
V/C Ratio(X)	0.21	0.00	0.52	0.07	0.00	0.62	0.23	0.24	0.08	0.25	0.27	0.27
Avail Cap(c_a), veh/h	415	0	514	425	0	457	212	1647	737	543	1153	1193
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.97	0.97	0.97	0.59	0.59	0.59
Uniform Delay (d), s/veh	37.3	0.0	34.9	36.3	0.0	35.1	36.6	12.7	11.8	25.4	6.0	6.0
Incr Delay (d2), s/veh	0.8	0.0	3.6	0.2	0.0	6.1	2.4	0.3	0.2	0.2	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	1.3	0.2	0.0	1.5	0.3	2.6	0.7	1.7	3.0	3.1
LnGrp Delay(d),s/veh	38.0	0.0	38.5	36.6	0.0	41.2	39.0	13.1	12.0	25.6	6.4	6.4
LnGrp LOS	D		D	D		D	D	B	B	C	A	A
Approach Vol, veh/h		86			74			462			727	
Approach Delay, s/veh		38.4			40.6			13.5			8.9	
Approach LOS		D			D			B			A	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	46.3	42.0		11.7	32.3	56.0		11.7
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	26.0	38.0		24.0	12.0	52.0		24.0
Max Q Clear Time (g_c+I1), s	6.4	8.1		7.3	3.5	8.8		5.9
Green Ext Time (p_c), s	0.2	2.9		0.6	0.1	4.4		0.7

Intersection Summary	
HCM 2010 Ctrl Delay	14.1
HCM 2010 LOS	B

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	34	196	0	7	637	152	3	2	1	253	10	47
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	41	236	0	8	767	183	4	2	1	305	12	57
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	304	1459	0	36	924	413	135	68	34	567	47	221
Arrive On Green	0.34	0.81	0.00	0.02	0.26	0.26	0.13	0.13	0.13	0.16	0.16	0.16
Sat Flow, veh/h	1810	3705	0	1810	3610	1615	1030	515	258	3510	288	1370
Grp Volume(v), veh/h	41	236	0	8	767	183	7	0	0	305	0	69
Grp Sat Flow(s), veh/h/ln	1810	1805	0	1810	1805	1615	1803	0	0	1755	0	1658
Q Serve(g_s), s	1.6	1.4	0.0	0.4	19.9	9.4	0.3	0.0	0.0	7.9	0.0	3.6
Cycle Q Clear(g_c), s	1.6	1.4	0.0	0.4	19.9	9.4	0.3	0.0	0.0	7.9	0.0	3.6
Prop In Lane	1.00		0.00	1.00		1.00	0.57		0.14	1.00		0.83
Lane Grp Cap(c), veh/h	304	1459	0	36	924	413	237	0	0	567	0	268
V/C Ratio(X)	0.13	0.16	0.00	0.22	0.83	0.44	0.03	0.00	0.00	0.54	0.00	0.26
Avail Cap(c_a), veh/h	304	1459	0	55	1313	587	237	0	0	567	0	268
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.99	0.99	0.00	1.00	1.00	1.00	1.00	0.00	0.00	0.99	0.00	0.99
Uniform Delay (d), s/veh	27.8	5.8	0.0	47.7	34.8	30.9	37.5	0.0	0.0	38.1	0.0	36.3
Incr Delay (d2), s/veh	0.2	0.2	0.0	3.0	3.2	0.7	0.2	0.0	0.0	3.6	0.0	2.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.8	0.7	0.0	0.2	10.3	4.3	0.2	0.0	0.0	4.1	0.0	1.8
LnGrp Delay(d),s/veh	28.0	6.0	0.0	50.7	38.0	31.6	37.7	0.0	0.0	41.7	0.0	38.6
LnGrp LOS	C	A		D	D	C	D			D		D
Approach Vol, veh/h		277			958			7			374	
Approach Delay, s/veh		9.3			36.9			37.7			41.1	
Approach LOS		A			D			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	10.0	47.0		23.0	24.7	32.3		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	6.0	43.0		19.0	10.0	39.0		16.0
Max Q Clear Time (g_c+I1), s	3.4	4.4		10.9	4.6	22.9		3.3
Green Ext Time (p_c), s	0.0	1.6		1.0	0.0	5.5		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.1
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	208	21	0	372	13	300	34	97	0	0	44
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	219	22	0	392	14	316	36	102	0	0	46
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	755	76	0	810	29	653	74	646	0	0	0
Arrive On Green	0.00	0.44	0.44	0.00	0.44	0.44	0.40	0.40	0.40	0.00	0.00	0.00
Sat Flow, veh/h	0	1699	171	0	1823	65	1632	186	1615		0	
Grp Volume(v), veh/h	0	0	241	0	0	406	352	0	102		0.0	
Grp Sat Flow(s),veh/h/ln	0	0	1870	0	0	1889	1818	0	1615			
Q Serve(g_s), s	0.0	0.0	7.4	0.0	0.0	13.7	13.0	0.0	3.6			
Cycle Q Clear(g_c), s	0.0	0.0	7.4	0.0	0.0	13.7	13.0	0.0	3.6			
Prop In Lane	0.00		0.09	0.00		0.03	0.90		1.00			
Lane Grp Cap(c), veh/h	0	0	831	0	0	839	727	0	646			
V/C Ratio(X)	0.00	0.00	0.29	0.00	0.00	0.48	0.48	0.00	0.16			
Avail Cap(c_a), veh/h	0	0	831	0	0	839	727	0	646			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	0.00	1.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	0.0	15.9	0.0	0.0	17.7	20.1	0.0	17.3			
Incr Delay (d2), s/veh	0.0	0.0	0.9	0.0	0.0	2.0	2.3	0.0	0.5			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	0.0	4.0	0.0	0.0	7.6	6.9	0.0	1.7			
LnGrp Delay(d),s/veh	0.0	0.0	16.8	0.0	0.0	19.7	22.4	0.0	17.8			
LnGrp LOS			B			B	C		B			
Approach Vol, veh/h		241			406			454				
Approach Delay, s/veh		16.8			19.7			21.4				
Approach LOS		B			B			C				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2				6		8
Phs Duration (G+Y+Rc), s		57.0				57.0		43.0
Change Period (Y+Rc), s		4.0				4.0		4.0
Max Green Setting (Gmax), s		43.0				43.0		39.0
Max Q Clear Time (g_c+I1), s		10.4				16.7		16.0
Green Ext Time (p_c), s		4.4				4.3		2.5

Intersection Summary	
HCM 2010 Ctrl Delay	19.7
HCM 2010 LOS	B

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Intersection									
Int Delay, s/veh	6								
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	243	23	9	4	39	39	3	29	6
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	91	91	91	91	91	91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	267	25	10	4	43	43	3	32	7

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	86	0	0	35	0	0	637	659	30
Stage 1	-	-	-	-	-	-	564	564	-
Stage 2	-	-	-	-	-	-	73	95	-
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3
Pot Cap-1 Maneuver	1523	-	-	1589	-	-	445	386	1050
Stage 1	-	-	-	-	-	-	573	512	-
Stage 2	-	-	-	-	-	-	955	820	-
Platoon blocked, %		-	-		-	-			
Mov Cap-1 Maneuver	1523	-	-	1589	-	-	364	0	1050
Mov Cap-2 Maneuver	-	-	-	-	-	-	364	0	-
Stage 1	-	-	-	-	-	-	470	0	-
Stage 2	-	-	-	-	-	-	952	0	-

Approach	EB	WB	NB
HCM Control Delay, s	7	0.4	11
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	645	1523	-	-	1589	-	-
HCM Lane V/C Ratio	0.065	0.175	-	-	0.003	-	-
HCM Control Delay (s)	11	7.9	0	-	7.3	0	-
HCM Lane LOS	B	A	A	-	A	A	-
HCM 95th %tile Q(veh)	0.2	0.6	-	-	0	-	-

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	0	0	0
Conflicting Peds, #/hr	0	0	0
Sign Control	Stop	Stop	Stop
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	91	91	91
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	0	0

Major/Minor			
Conflicting Flow All			
Stage 1			
Stage 2			
Critical Hdwy			
Critical Hdwy Stg 1			
Critical Hdwy Stg 2			
Follow-up Hdwy			
Pot Cap-1 Maneuver			
Stage 1			
Stage 2			
Platoon blocked, %			
Mov Cap-1 Maneuver			
Mov Cap-2 Maneuver			
Stage 1			
Stage 2			

Approach			
HCM Control Delay, s			
HCM LOS			

Minor Lane/Major Mvmt			

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Intersection	
Intersection Delay, s/veh	10.7
Intersection LOS	B

Movement	EBU	EBL	EBT	EBR	WBU	WBL	WBT	WBR	NBU	NBL	NBT	NBR
Vol, veh/h	0	0	214	33	0	26	61	0	0	41	0	77
Peak Hour Factor	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	228	35	0	28	65	0	0	44	0	82
Number of Lanes	0	0	1	0	0	1	1	0	0	0	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	SB
Opposing Lanes	2	1	1
Conflicting Approach Left	SB	NB	EB
Conflicting Lanes Left	1	1	1
Conflicting Approach Right	NB	SB	WB
Conflicting Lanes Right	1	1	2
HCM Control Delay	11.2	9.4	9
HCM LOS	B	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2	SBLn1
Vol Left, %	35%	0%	100%	0%	54%
Vol Thru, %	0%	87%	0%	100%	41%
Vol Right, %	65%	13%	0%	0%	6%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	118	247	26	61	264
LT Vol	0	214	0	61	107
Through Vol	77	33	0	0	15
RT Vol	41	0	26	0	142
Lane Flow Rate	126	263	28	65	281
Geometry Grp	2	5	7	7	2
Degree of Util (X)	0.174	0.369	0.049	0.107	0.393
Departure Headway (Hd)	4.98	5.163	6.426	5.919	5.043
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	724	702	560	608	705
Service Time	2.985	3.163	4.134	3.627	3.139
HCM Lane V/C Ratio	0.174	0.375	0.05	0.107	0.399
HCM Control Delay	9	11.2	9.5	9.3	11.4
HCM Lane LOS	A	B	A	A	B
HCM 95th-tile Q	0.6	1.7	0.2	0.4	1.9

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Intersection	
Intersection Delay, s/veh	
Intersection LOS	

Movement	SBU	SBL	SBT	SBR
Vol, veh/h	0	142	107	15
Peak Hour Factor	0.92	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0
Mvmt Flow	0	151	114	16
Number of Lanes	0	0	1	0

Approach	SB
Opposing Approach	NB
Opposing Lanes	1
Conflicting Approach Left	WB
Conflicting Lanes Left	2
Conflicting Approach Right	EB
Conflicting Lanes Right	1
HCM Control Delay	11.4
HCM LOS	B

Lane

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	0	0	316	57	98	214	243	0	0	216	20
Number				3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				274	197	114	249	283	0	0	251	23
Adj No. of Lanes				1	1	0	1	1	0	0	2	0
Peak Hour Factor				0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				346	216	125	624	1220	0	0	717	65
Arrive On Green				0.19	0.19	0.19	0.34	0.64	0.00	0.00	0.21	0.21
Sat Flow, veh/h				1810	1130	654	1810	1900	0	0	3442	304
Grp Volume(v), veh/h				274	0	311	249	283	0	0	134	140
Grp Sat Flow(s), veh/h/ln				1810	0	1785	1810	1900	0	0	1805	1846
Q Serve(g_s), s				12.1	0.0	14.4	8.8	5.3	0.0	0.0	5.3	5.4
Cycle Q Clear(g_c), s				12.1	0.0	14.4	8.8	5.3	0.0	0.0	5.3	5.4
Prop In Lane				1.00		0.37	1.00		0.00	0.00		0.16
Lane Grp Cap(c), veh/h				346	0	341	624	1220	0	0	386	395
V/C Ratio(X)				0.79	0.00	0.91	0.40	0.23	0.00	0.00	0.35	0.35
Avail Cap(c_a), veh/h				689	0	679	624	1220	0	0	386	395
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				32.4	0.0	33.3	20.9	6.3	0.0	0.0	28.1	28.1
Incr Delay (d2), s/veh				4.1	0.0	9.5	1.9	0.4	0.0	0.0	2.5	2.5
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln				6.4	0.0	8.0	4.7	2.9	0.0	0.0	2.9	3.0
LnGrp Delay(d),s/veh				36.5	0.0	42.8	22.8	6.8	0.0	0.0	30.5	30.5
LnGrp LOS				D		D	C	A			C	C
Approach Vol, veh/h					585			532			274	
Approach Delay, s/veh					39.9			14.3			30.5	
Approach LOS					D			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2			5	6		8
Phs Duration (G+Y+Rc), s		76.9			51.9	25.0		23.1
Change Period (Y+Rc), s		4.0			4.0	4.0		4.0
Max Green Setting (Gmax), s		57.0			32.0	21.0		35.0
Max Q Clear Time (g_c+I1), s		8.3			11.8	8.4		17.4
Green Ext Time (p_c), s		2.6			2.3	1.2		1.7

Intersection Summary		
HCM 2010 Ctrl Delay		28.2
HCM 2010 LOS		C

Notes

User approved volume balancing among the lanes for turning movement.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	91	236	82	6	19	31	10	330	361	101	332	63
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	97	251	87	6	20	33	11	351	384	107	353	67
Adj No. of Lanes	1	1	0	1	1	1	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	367	288	100	122	406	345	22	1717	768	110	1590	299
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21	0.01	0.48	0.48	0.06	0.52	0.52
Sat Flow, veh/h	1373	1350	468	1059	1900	1615	1810	3610	1615	1810	3034	570
Grp Volume(v), veh/h	97	0	338	6	20	33	11	351	384	107	209	211
Grp Sat Flow(s), veh/h/ln	1373	0	1817	1059	1900	1615	1810	1805	1615	1810	1805	1799
Q Serve(g_s), s	5.1	0.0	15.1	0.5	0.7	1.4	0.5	4.7	13.7	5.0	5.2	5.3
Cycle Q Clear(g_c), s	5.8	0.0	15.1	15.5	0.7	1.4	0.5	4.7	13.7	5.0	5.2	5.3
Prop In Lane	1.00		0.26	1.00		1.00	1.00		1.00	1.00		0.32
Lane Grp Cap(c), veh/h	367	0	388	122	406	345	22	1717	768	110	946	943
V/C Ratio(X)	0.26	0.00	0.87	0.05	0.05	0.10	0.50	0.20	0.50	0.97	0.22	0.22
Avail Cap(c_a), veh/h	597	0	693	299	724	615	65	1717	768	302	946	943
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	0.79	0.79	0.79	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.5	0.0	31.9	39.4	26.2	26.5	41.2	12.8	15.2	39.4	10.8	10.8
Incr Delay (d2), s/veh	0.4	0.0	6.1	0.2	0.0	0.1	12.9	0.2	1.8	33.7	0.5	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	2.0	0.0	8.2	0.1	0.4	0.6	0.3	2.4	6.5	3.5	2.7	2.8
LnGrp Delay(d),s/veh	28.9	0.0	38.0	39.6	26.3	26.6	54.1	13.0	17.0	73.0	11.3	11.3
LnGrp LOS	C		D	D	C	C	D	B	B	E	B	B
Approach Vol, veh/h		435			59			746			527	
Approach Delay, s/veh		36.0			27.8			15.7			23.8	
Approach LOS		D			C			B			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	12.1	63.0		24.9	24.1	51.0		24.9
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	17.0	36.0		35.0	6.0	47.0		35.0
Max Q Clear Time (g_c+I1), s	8.0	16.7		18.1	3.5	8.3		18.5
Green Ext Time (p_c), s	0.1	3.6		2.4	0.0	2.7		2.4

Intersection Summary	
HCM 2010 Ctrl Delay	23.5
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	355	638	18	16	133	31	16	104	28	34	68	204
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	394	709	20	18	148	34	18	116	31	38	76	227
Adj No. of Lanes	1	2	0	1	2	0	1	1	0	0	1	1
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	686	1963	55	38	556	124	210	304	81	127	232	340
Arrive On Green	0.38	0.55	0.55	0.04	0.38	0.38	0.21	0.21	0.21	0.07	0.07	0.07
Sat Flow, veh/h	1810	3586	101	1810	2932	657	1093	1446	386	364	1102	1615
Grp Volume(v), veh/h	394	357	372	18	90	92	18	0	147	114	0	227
Grp Sat Flow(s), veh/h/ln	1810	1805	1882	1810	1805	1784	1093	0	1832	1467	0	1615
Q Serve(g_s), s	16.4	10.6	10.6	0.9	3.3	3.4	1.4	0.0	6.5	1.8	0.0	13.0
Cycle Q Clear(g_c), s	16.4	10.6	10.6	0.9	3.3	3.4	9.7	0.0	6.5	8.3	0.0	13.0
Prop In Lane	1.00		0.05	1.00		0.37	1.00		0.21	0.33		1.00
Lane Grp Cap(c), veh/h	686	988	1030	38	342	338	210	0	386	359	0	340
V/C Ratio(X)	0.57	0.36	0.36	0.47	0.26	0.27	0.09	0.00	0.38	0.32	0.00	0.67
Avail Cap(c_a), veh/h	781	988	1030	133	342	338	210	0	386	359	0	340
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	0.33	0.33	0.33
Upstream Filter(I)	1.00	1.00	1.00	0.99	0.99	0.99	1.00	0.00	1.00	0.99	0.00	0.99
Uniform Delay (d), s/veh	23.4	12.1	12.1	45.0	24.9	25.0	37.2	0.0	32.2	38.1	0.0	41.0
Incr Delay (d2), s/veh	0.8	1.0	1.0	8.8	1.9	2.0	0.8	0.0	2.8	2.3	0.0	9.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	8.4	5.5	5.8	0.5	1.8	1.9	0.5	0.0	3.6	3.1	0.0	6.8
LnGrp Delay(d),s/veh	24.2	13.2	13.1	53.8	26.8	26.9	38.0	0.0	35.0	40.4	0.0	50.8
LnGrp LOS	C	B	B	D	C	C	D		D	D		D
Approach Vol, veh/h		1123			200			165			341	
Approach Delay, s/veh		17.0			29.3			35.4			47.4	
Approach LOS		B			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.0	59.0		27.0	48.0	25.0		27.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	10.0	55.0		23.0	44.0	21.0		23.0
Max Q Clear Time (g_c+I1), s	3.9	13.6		16.0	19.4	6.4		12.7
Green Ext Time (p_c), s	0.7	5.2		1.4	1.3	0.8		1.8

Intersection Summary	
HCM 2010 Ctrl Delay	25.7
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	1.9								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	0	0	0	8	26	13	23	170	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	0	0	0	8	27	14	24	179	0

Major/Minor	Minor1			Major1		
Conflicting Flow All	333	338	179	111	0	0
Stage 1	227	227	-	-	-	-
Stage 2	106	111	-	-	-	-
Critical Hdwy	6.4	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	5.4	5.5	-	-	-	-
Critical Hdwy Stg 2	5.4	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	666	586	869	1492	-	-
Stage 1	815	720	-	-	-	-
Stage 2	923	807	-	-	-	-
Platoon blocked, %					-	-
Mov Cap-1 Maneuver	654	0	869	1492	-	-
Mov Cap-2 Maneuver	654	0	-	-	-	-
Stage 1	800	0	-	-	-	-
Stage 2	923	0	-	-	-	-

Approach	WB	NB
HCM Control Delay, s	10	0.9
HCM LOS	B	

Minor Lane/Major Mvmt	NBL	NBT	NBR	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1492	-	-	772	1409	-	-
HCM Lane V/C Ratio	0.016	-	-	0.064	-	-	-
HCM Control Delay (s)	7.5	0	-	10	0	-	-
HCM Lane LOS	A	A	-	B	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	-	-

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Intersection			
Int Delay, s/veh			
Movement	SBL	SBT	SBR
Vol, veh/h	0	96	9
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	95	95	95
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	101	9
Major/Minor	Major2		
Conflicting Flow All	179	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1409	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1409	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Approach	SB		
HCM Control Delay, s	0		
HCM LOS			
Minor Lane/Major Mvmt			

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	67	697	7	21	150	12	11	40	37	20	22	19
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	74	766	8	23	165	13	12	44	41	22	24	21
Adj No. of Lanes	1	2	0	1	2	0	0	1	0	0	1	0
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	132	1373	14	38	1096	86	34	125	116	91	99	87
Arrive On Green	0.07	0.38	0.38	0.02	0.32	0.32	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1810	3660	38	1810	3393	265	217	797	743	582	635	556
Grp Volume(v), veh/h	74	378	396	23	87	91	97	0	0	67	0	0
Grp Sat Flow(s),veh/h/ln	1810	1805	1893	1810	1805	1853	1758	0	0	1773	0	0
Q Serve(g_s), s	3.8	15.9	15.9	1.2	3.3	3.4	4.7	0.0	0.0	3.2	0.0	0.0
Cycle Q Clear(g_c), s	3.8	15.9	15.9	1.2	3.3	3.4	4.7	0.0	0.0	3.2	0.0	0.0
Prop In Lane	1.00		0.02	1.00		0.14	0.12		0.42	0.33		0.31
Lane Grp Cap(c), veh/h	132	677	710	38	583	598	275	0	0	277	0	0
V/C Ratio(X)	0.56	0.56	0.56	0.61	0.15	0.15	0.35	0.00	0.00	0.24	0.00	0.00
Avail Cap(c_a), veh/h	207	677	710	113	583	598	275	0	0	277	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.93	0.93	0.93	0.99	0.99	0.99	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	43.0	23.7	23.7	46.6	23.1	23.1	36.2	0.0	0.0	35.5	0.0	0.0
Incr Delay (d2), s/veh	3.4	3.1	2.9	14.9	0.5	0.5	3.5	0.0	0.0	2.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	8.4	8.8	0.8	1.7	1.8	2.6	0.0	0.0	1.7	0.0	0.0
LnGrp Delay(d),s/veh	46.5	26.8	26.6	61.5	23.7	23.7	39.7	0.0	0.0	37.6	0.0	0.0
LnGrp LOS	D	C	C	E	C	C	D			D		
Approach Vol, veh/h		848			201			97			67	
Approach Delay, s/veh		28.4			28.0			39.7			37.6	
Approach LOS		C			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	47.0		22.0	18.0	38.0		22.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	9.0	39.0		18.0	14.0	34.0		18.0
Max Q Clear Time (g_c+I1), s	4.2	18.9		6.2	6.8	6.4		7.7
Green Ext Time (p_c), s	0.0	5.1		0.2	2.9	1.0		0.3

Intersection Summary	
HCM 2010 Ctrl Delay	29.8
HCM 2010 LOS	C

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Intersection									
Int Delay, s/veh	41.6								

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	2	3	22	252	11	146	4	258	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free
RT Channelized	-	-	None	-	-	Yeild	-	-	None
Storage Length	-	-	-	-	-	25	-		
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	
Peak Hour Factor	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	2	3	24	274	12	159	4	280	0

Major/Minor	Minor2			Minor1			Major1		
Conflicting Flow All	906	900	490	914	902	280	491	0	0
Stage 1	611	611	-	289	289	-	-	-	-
Stage 2	295	289	-	625	613	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-
Pot Cap-1 Maneuver	259	280	582	~ 256	280	764	1083	-	-
Stage 1	484	487	-	723	677	-	-	-	-
Stage 2	718	677	-	476	486	-	-	-	-
Platoon blocked, %								-	-
Mov Cap-1 Maneuver	188	261	582	~ 230	261	764	1083	-	-
Mov Cap-2 Maneuver	188	261	-	~ 230	261	-	-	-	-
Stage 1	482	455	-	720	674	-	-	-	-
Stage 2	557	674	-	424	454	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	13.5	120.5	0.1
HCM LOS	B	F	

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	WBLn2	SBL	SBT	SBR
Capacity (veh/h)	1083	-	-	451	231	764	1294	-	-
HCM Lane V/C Ratio	0.004	-	-	0.065	1.238	0.208	0.047	-	-
HCM Control Delay (s)	8.3	0	-	13.5	181.4	10.9	7.9	0	-
HCM Lane LOS	A	A	-	B	F	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	14.3	0.8	0.1	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

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Intersection			
Int Delay, s/veh			

Movement	SBL	SBT	SBR
Vol, veh/h	56	449	3
Conflicting Peds, #/hr	0	0	0
Sign Control	Free	Free	Free
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	92	92	92
Heavy Vehicles, %	0	0	0
Mvmt Flow	61	488	3

Major/Minor	Major2		
Conflicting Flow All	280	0	0
Stage 1	-	-	-
Stage 2	-	-	-
Critical Hdwy	4.1	-	-
Critical Hdwy Stg 1	-	-	-
Critical Hdwy Stg 2	-	-	-
Follow-up Hdwy	2.2	-	-
Pot Cap-1 Maneuver	1294	-	-
Stage 1	-	-	-
Stage 2	-	-	-
Platoon blocked, %		-	-
Mov Cap-1 Maneuver	1294	-	-
Mov Cap-2 Maneuver	-	-	-
Stage 1	-	-	-
Stage 2	-	-	-

Approach	SB
HCM Control Delay, s	0.9
HCM LOS	

Minor Lane/Major Mvmt	

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Intersection						
Int Delay, s/veh	8.5					

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Vol, veh/h	80	180	135	243	369	348
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	20	-	50	50	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	87	196	147	264	401	378

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	1327	147	0	0	147	0
Stage 1	147	-	-	-	-	-
Stage 2	1180	-	-	-	-	-
Critical Hdwy	6.4	6.2	-	-	4.1	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	-	-	2.2	-
Pot Cap-1 Maneuver	173	905	-	-	1447	-
Stage 1	885	-	-	-	-	-
Stage 2	295	-	-	-	-	-
Platoon blocked, %						
Mov Cap-1 Maneuver	125	905	-	-	1447	-
Mov Cap-2 Maneuver	125	-	-	-	-	-
Stage 1	885	-	-	-	-	-
Stage 2	213	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	32.3	0	4.3
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	WBLn2	SBL	SBT
Capacity (veh/h)	-	-	125	905	1447	-
HCM Lane V/C Ratio	-	-	0.696	0.216	0.277	-
HCM Control Delay (s)	-	-	82.4	10.1	8.4	-
HCM Lane LOS	-	-	F	B	A	-
HCM 95th %tile Q(veh)	-	-	3.8	0.8	1.1	-

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	97	410	95	152	330	157	19	95	48	54	187	104
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	102	432	100	160	347	165	20	100	51	57	197	109
Adj No. of Lanes	1	2	0	1	1	0	0	2	0	0	1	0
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	103	1099	252	161	498	237	125	588	302	105	315	161
Arrive On Green	0.06	0.38	0.38	0.09	0.41	0.41	0.31	0.31	0.31	0.31	0.31	0.31
Sat Flow, veh/h	1810	2917	670	1810	1218	579	249	1872	960	195	1002	513
Grp Volume(v), veh/h	102	266	266	160	0	512	88	0	83	363	0	0
Grp Sat Flow(s), veh/h/ln	1810	1805	1782	1810	0	1798	1522	0	1560	1710	0	0
Q Serve(g_s), s	5.4	10.3	10.4	8.4	0.0	22.5	0.0	0.0	3.7	9.5	0.0	0.0
Cycle Q Clear(g_c), s	5.4	10.3	10.4	8.4	0.0	22.5	3.2	0.0	3.7	17.3	0.0	0.0
Prop In Lane	1.00		0.38	1.00		0.32	0.23		0.62	0.16		0.30
Lane Grp Cap(c), veh/h	103	680	671	161	0	734	525	0	490	581	0	0
V/C Ratio(X)	0.99	0.39	0.40	0.99	0.00	0.70	0.17	0.00	0.17	0.62	0.00	0.00
Avail Cap(c_a), veh/h	190	680	671	303	0	734	525	0	490	581	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	0.96	0.00	0.96	1.00	0.00	0.00
Uniform Delay (d), s/veh	45.0	21.7	21.8	43.4	0.0	23.3	23.5	0.0	23.7	28.2	0.0	0.0
Incr Delay (d2), s/veh	43.1	1.7	1.7	34.4	0.0	5.4	0.7	0.0	0.7	5.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	3.9	5.4	5.4	5.7	0.0	12.2	1.8	0.0	1.7	9.1	0.0	0.0
LnGrp Delay(d),s/veh	88.0	23.4	23.5	77.9	0.0	28.8	24.2	0.0	24.4	33.3	0.0	0.0
LnGrp LOS	F	C	C	E		C	C		C	C		
Approach Vol, veh/h		634			672			171			363	
Approach Delay, s/veh		33.9			40.5			24.3			33.3	
Approach LOS		C			D			C			C	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	15.5	47.5		37.0	12.5	50.5		37.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	19.0	36.0		33.0	13.0	42.0		33.0
Max Q Clear Time (g_c+I1), s	11.4	13.4		20.3	8.4	25.5		6.7
Green Ext Time (p_c), s	0.2	7.2		2.7	0.1	6.3		3.6

Intersection Summary	
HCM 2010 Ctrl Delay	35.3
HCM 2010 LOS	D

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	26	181	9	11	12	41	5	570	218	196	692	19
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	28	193	10	12	13	44	5	606	232	209	736	20
Adj No. of Lanes	1	1	0	1	1	0	1	2	1	1	2	0
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	226	234	12	120	50	168	2	1762	788	216	2372	64
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.00	0.49	0.49	0.12	0.66	0.66
Sat Flow, veh/h	1368	1791	93	1198	381	1291	1810	3610	1615	1810	3590	98
Grp Volume(v), veh/h	28	0	203	12	0	57	5	606	232	209	370	386
Grp Sat Flow(s), veh/h/ln	1368	0	1884	1198	0	1672	1810	1805	1615	1810	1805	1883
Q Serve(g_s), s	1.5	0.0	8.4	0.8	0.0	2.5	0.1	8.3	6.9	9.2	7.0	7.0
Cycle Q Clear(g_c), s	4.0	0.0	8.4	9.2	0.0	2.5	0.1	8.3	6.9	9.2	7.0	7.0
Prop In Lane	1.00		0.05	1.00		0.77	1.00		1.00	1.00		0.05
Lane Grp Cap(c), veh/h	226	0	246	120	0	218	2	1762	788	216	1192	1244
V/C Ratio(X)	0.12	0.00	0.83	0.10	0.00	0.26	2.22	0.34	0.29	0.97	0.31	0.31
Avail Cap(c_a), veh/h	423	0	517	292	0	459	90	1762	788	541	1192	1244
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	0.84	0.84	0.84	0.60	0.60	0.60
Uniform Delay (d), s/veh	33.2	0.0	34.0	38.5	0.0	31.4	40.1	12.6	12.3	35.2	5.8	5.8
Incr Delay (d2), s/veh	0.2	0.0	6.9	0.4	0.0	0.6	741.8	0.4	0.8	15.3	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	358.9	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	0.6	0.0	4.9	0.3	0.0	1.2	0.5	4.2	3.2	5.5	3.6	3.8
LnGrp Delay(d),s/veh	33.4	0.0	40.9	38.8	0.0	32.0	1140.8	13.1	13.1	50.5	6.2	6.2
LnGrp LOS	C		D	D		C	F	B	B	D	A	A
Approach Vol, veh/h		231			69			843			965	
Approach Delay, s/veh		40.0			33.2			19.8			15.8	
Approach LOS		D			C			B			B	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	16.6	65.9		17.5	22.5	60.0		17.5
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	27.0	36.0		25.0	7.0	56.0		25.0
Max Q Clear Time (g_c+I1), s	12.2	11.3		11.4	3.1	10.0		12.2
Green Ext Time (p_c), s	0.5	5.2		1.3	0.0	5.5		1.3

Intersection Summary	
HCM 2010 Ctrl Delay	20.6
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	127	677	1	1	131	235	1	9	5	134	1	15
Number	5	2	12	1	6	16	3	8	18	7	4	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	141	752	1	1	146	261	1	10	6	149	1	17
Adj No. of Lanes	1	2	0	1	2	1	0	1	0	2	1	0
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	131	1640	2	2	1216	544	14	144	86	556	14	243
Arrive On Green	0.05	0.30	0.30	0.00	0.34	0.34	0.14	0.14	0.14	0.16	0.16	0.16
Sat Flow, veh/h	1810	3699	5	1810	3610	1615	105	1049	630	3510	90	1538
Grp Volume(v), veh/h	141	367	386	1	146	261	17	0	0	149	0	18
Grp Sat Flow(s), veh/h/ln	1810	1805	1899	1810	1805	1615	1784	0	0	1755	0	1629
Q Serve(g_s), s	6.8	15.7	15.7	0.1	2.6	12.1	0.8	0.0	0.0	3.5	0.0	0.9
Cycle Q Clear(g_c), s	6.8	15.7	15.7	0.1	2.6	12.1	0.8	0.0	0.0	3.5	0.0	0.9
Prop In Lane	1.00		0.00	1.00		1.00	0.06		0.35	1.00		0.94
Lane Grp Cap(c), veh/h	131	800	842	2	1216	544	245	0	0	556	0	258
V/C Ratio(X)	1.08	0.46	0.46	0.52	0.12	0.48	0.07	0.00	0.00	0.27	0.00	0.07
Avail Cap(c_a), veh/h	325	800	842	38	1216	544	245	0	0	556	0	258
HCM Platoon Ratio	0.67	0.67	0.67	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.87	0.87	0.87	1.00	1.00	1.00	1.00	0.00	0.00	0.97	0.00	0.97
Uniform Delay (d), s/veh	45.1	24.1	24.1	47.4	21.7	24.9	35.6	0.0	0.0	35.1	0.0	33.9
Incr Delay (d2), s/veh	57.2	1.6	1.6	136.7	0.0	0.7	0.5	0.0	0.0	1.1	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%), veh/ln	5.5	8.2	8.6	0.1	1.3	5.5	0.4	0.0	0.0	1.8	0.0	0.4
LnGrp Delay(d),s/veh	102.3	25.7	25.6	184.0	21.8	25.5	36.2	0.0	0.0	36.2	0.0	34.4
LnGrp LOS	F	C	C	F	C	C	D			D		C
Approach Vol, veh/h		894			408			17			167	
Approach Delay, s/veh		37.7			24.6			36.2			36.0	
Approach LOS		D			C			D			D	

Timer	1	2	3	4	5	6	7	8
Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	9.0	49.0		22.0	13.8	44.2		20.0
Change Period (Y+Rc), s	4.0	4.0		4.0	4.0	4.0		4.0
Max Green Setting (Gmax), s	5.0	45.0		18.0	20.0	30.0		16.0
Max Q Clear Time (g_c+I1), s	3.1	18.7		6.5	9.8	15.1		3.8
Green Ext Time (p_c), s	0.0	5.1		0.4	0.2	1.6		0.0

Intersection Summary	
HCM 2010 Ctrl Delay	33.9
HCM 2010 LOS	C

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (veh/h)	0	485	0	0	284	20	293	32	125	0	0	50
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Adj Sat Flow, veh/h/ln	0	1900	0	0	1900	1900	1900	1900	1900	0	0	1900
Adj Flow Rate, veh/h	0	511	0	0	299	21	308	34	132	0	0	53
Adj No. of Lanes	0	1	0	0	1	0	0	1	1	0	0	1
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	0	618	0	0	571	40	789	87	778	0	0	0
Arrive On Green	0.00	0.33	0.00	0.00	0.33	0.33	0.48	0.48	0.48	0.00	0.00	0.00
Sat Flow, veh/h	0	1900	0	0	1755	123	1637	181	1615		0	
Grp Volume(v), veh/h	0	511	0	0	0	320	342	0	132		0.0	
Grp Sat Flow(s), veh/h/ln	0	1900	0	0	0	1878	1818	0	1615			
Q Serve(g_s), s	0.0	18.0	0.0	0.0	0.0	10.1	8.7	0.0	3.3			
Cycle Q Clear(g_c), s	0.0	18.0	0.0	0.0	0.0	10.1	8.7	0.0	3.3			
Prop In Lane	0.00		0.00	0.00		0.07	0.90		1.00			
Lane Grp Cap(c), veh/h	0	618	0	0	0	611	876	0	778			
V/C Ratio(X)	0.00	0.83	0.00	0.00	0.00	0.52	0.39	0.00	0.17			
Avail Cap(c_a), veh/h	0	1073	0	0	0	1060	876	0	778			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	0.00	0.00	0.00	1.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	22.6	0.0	0.0	0.0	19.9	12.0	0.0	10.6			
Incr Delay (d2), s/veh	0.0	2.9	0.0	0.0	0.0	0.7	1.3	0.0	0.5			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%), veh/ln	0.0	9.9	0.0	0.0	0.0	5.3	4.7	0.0	1.6			
LnGrp Delay(d),s/veh	0.0	25.5	0.0	0.0	0.0	20.6	13.3	0.0	11.1			
LnGrp LOS		C				C	B		B			
Approach Vol, veh/h		511			320			474				
Approach Delay, s/veh		25.5			20.6			12.7				
Approach LOS		C			C			B				

Timer	1	2	3	4	5	6	7	8
Assigned Phs		2		4				8
Phs Duration (G+Y+Rc), s		69.4		30.6				30.6
Change Period (Y+Rc), s		4.0		4.0				4.0
Max Green Setting (Gmax), s		38.0		44.0				44.0
Max Q Clear Time (g_c+I1), s		11.7		21.0				13.1
Green Ext Time (p_c), s		2.7		5.6				6.0

Intersection Summary	
HCM 2010 Ctrl Delay	19.7
HCM 2010 LOS	B

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Intersection									
Int Delay, s/veh	10.4								
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR
Vol, veh/h	536	56	12	5	41	75	8	49	7
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-
Peak Hour Factor	87	87	87	87	87	87	87	87	87
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0
Mvmt Flow	616	64	14	6	47	86	9	56	8

Major/Minor	Major1			Major2			Minor1		
Conflicting Flow All	133	0	0	78	0	0	1405	1448	71
Stage 1	-	-	-	-	-	-	1303	1303	-
Stage 2	-	-	-	-	-	-	102	145	-
Critical Hdwy	4.1	-	-	4.1	-	-	6.4	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	5.4	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	5.4	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3
Pot Cap-1 Maneuver	1464	-	-	1533	-	-	155	133	997
Stage 1	-	-	-	-	-	-	257	233	-
Stage 2	-	-	-	-	-	-	927	781	-
Platoon blocked, %									
Mov Cap-1 Maneuver	1464	-	-	1533	-	-	86	0	997
Mov Cap-2 Maneuver	-	-	-	-	-	-	86	0	-
Stage 1	-	-	-	-	-	-	144	0	-
Stage 2	-	-	-	-	-	-	923	0	-

Approach	EB	WB	NB
HCM Control Delay, s	8.2	0.3	50.1
HCM LOS			F

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR
Capacity (veh/h)	150	1464	-	-	1533	-	-
HCM Lane V/C Ratio	0.49	0.421	-	-	0.004	-	-
HCM Control Delay (s)	50.1	9.2	0	-	7.4	0	-
HCM Lane LOS	F	A	A	-	A	A	
HCM 95th %tile Q(veh)	2.3	2.1	-	-	0	-	-

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Intersection			
Int Delay, s/veh			
Movement	SBL	SBT	SBR
Vol, veh/h	0	0	0
Conflicting Peds, #/hr	0	0	0
Sign Control	Stop	Stop	Stop
RT Channelized	-	-	None
Storage Length	-	-	-
Veh in Median Storage, #	-	0	-
Grade, %	-	0	-
Peak Hour Factor	87	87	87
Heavy Vehicles, %	0	0	0
Mvmt Flow	0	0	0
Major/Minor			
Conflicting Flow All			
Stage 1			
Stage 2			
Critical Hdwy			
Critical Hdwy Stg 1			
Critical Hdwy Stg 2			
Follow-up Hdwy			
Pot Cap-1 Maneuver			
Stage 1			
Stage 2			
Platoon blocked, %			
Mov Cap-1 Maneuver			
Mov Cap-2 Maneuver			
Stage 1			
Stage 2			
Approach			
HCM Control Delay, s			
HCM LOS			
Minor Lane/Major Mvmt			

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GEOTECHNICAL REPORT
PIER 1 DRY DOCK EIR
BAE SYSTEMS SAN DIEGO SHIP REPAIR
SAN DIEGO, CALIFORNIA

Prepared for
LSA ASSOCIATES, INC.
Carlsbad, California

TerraCosta
Consulting Group

Prepared by
TERRACOSTA CONSULTING GROUP, INC.
San Diego, California

Project No. 2842A
March 20, 2015
Revised: March 25, 2015

TerraCosta
Consulting Group

Geotechnical Engineering
Coastal Engineering
Maritime Engineering

Project No. 2842A
March 20, 2015
Revised: March 25, 2015

LSA ASSOCIATES, INC.
703 Palomar Airport Road, Suite 260
Carlsbad, California 92011

Attention: Mr. David Atwater

GEOTECHNICAL REPORT
PIER 1 DRY DOCK EIR
BAE SYSTEMS SAN DIEGO SHIP REPAIR
SAN DIEGO, CALIFORNIA

Dear Mr. Atwater:

TerraCosta Consulting Group, Inc. (TCG) is pleased to submit this report presenting the results of our geotechnical analyses for the proposed Pier 1 North improvements including a new mooring dolphin, ramp wharves, a king pile wall system, and dredged slopes in support of a new large floating dry dock at the BAE Systems San Diego Ship Repair in San Diego, California. These analyses have been prepared in support of the Environmental Impact Report for the proposed project.

We appreciate the opportunity to be of service and trust this information meets your needs. If you have any questions or require additional information, please give us a call.

Very truly yours,
TERRACOSTA CONSULTING GROUP, INC.

Matthew W. Eckert, Director of
Engineering, R.C.E. 45171, R.G.E. 2316

Gregory A. Spaulding, Project Geologist
P.G. 5892, C.E.G. 1863

Walter F. Crampton, Principal Engineer
R.C.E. 23792, R.G.E. 245

MWE/GAS/WFC/jg
Attachments

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TerraCosta Consulting Group

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GEOTECHNICAL REPORT
PIER 1 DRY DOCK EIR
BAE SYSTEMS SAN DIEGO SHIP REPAIR
SAN DIEGO, CALIFORNIA

1 INTRODUCTION AND PROJECT DESCRIPTION

The proposed project is located north of Pier 1 at the northwest corner of the BAE Systems Ship Repair (shipyard) at 2205 East Belt Street in San Diego, California. Figure 1, the Vicinity Map/Regional Geology map, indicates the approximate location of the subject site.

The proposed project consists of three components: dry dock, real estate agreement, and cooling tunnels. As we understand, the proposed dry dock component improvements will include construction of an underwater king pile wall for support of the foundation soils underlying Pier 1; dredging of the Pier 1 North basin to a depth of -65 feet MLLW; construction of two new mooring dolphins, one bayward of the existing mooring dolphin and one integrated into Pier 1; construction of two new ramp wharves and one intermediary wharf; and upgrades to strengthen the existing Pier 1. We also understand that limited landside improvements including electrical and mechanical utilities are also proposed. The above improvements will facilitate the placement of a new 55,000-ton dry dock, which is expected to be approximately 200-feet wide and 850-feet long. Prior to the construction of the dry dock improvements, we understand that a new submerged 80-foot-long sheet-pile wall will be installed along the shoreline in support of the Shipyard Sediment Cleanup and Abatement Order No. R9-2012-0024 (CAO).

The real estate agreement component does not include any physical improvements and, as a result, requires no geotechnical input.

The cooling tunnels component conceptually consists of the removal of existing cooling tunnels that are located below the 2.0 acre landside SDG&E parcel and were part of the Silvergate power plant that was removed in 2007 and was located on the opposite side of Belt Street from the subject parcel.

The proposed dry dock improvements and the location of the existing cooling tunnels are shown on the Site Plan (Figure 2).

2 PURPOSE AND SCOPE OF INVESTIGATION

The purpose of this report is to provide geologic and geotechnical information for input to the project EIR.

Our geotechnical report addresses the following:

- Existing subsurface soil conditions;
- Geotechnical characteristics of the on-site soils;
- Site seismicity;
- Geologic hazards;
- A geotechnical assessment for the dry dock component improvements; and
- A geotechnical assessment for the cooling tunnels component.

3 PREVIOUS STUDIES

Previous site studies at or in the vicinity of the subject project include a draft report prepared by TerraCosta titled "Geotechnical Investigation, Pier 1 North, Large Dry Dock, BAE Systems San Diego Ship Repair, San Diego, California" dated September 5, 2014. That report included a geotechnical subsurface investigation, analyses, and laboratory testing for the dry dock improvements described above. We have also reviewed an April 26, 1983, geotechnical investigation prepared by Woodward-Clyde Consultants for renovations to the Southwest Marine shipyard (now owned by BAE Systems). That report contains geotechnical information in the project vicinity. Additionally, we reviewed our study report for Pier 4 titled, "Geotechnical Investigation, Pier 4 Replacement Project, BAE Systems San Diego Ship Repair, San Diego, California," dated October 18, 2011, as well as other relevant published and unpublished reports, maps, and documents. We have also reviewed the report prepared by Triton Engineering, Inc. in January 2014 titled "BAE Systems San Diego Ship Repair, 55,000 LT Floating Dry Dock Study," which provided information on the proposed site improvements. Additional reports and resources have been included in the report references. A list of documents reviewed is provided at the end of this report.

4 EXISTING SURFACE CONDITIONS AND GEOLOGIC SETTING

From north to south, the subject study area includes approximately 210 feet of revetted shoreline, an approximately 65-foot-long seawall, and the existing Pier 1. The existing revetment appears to consist of stacked remnants of concrete pilings, pieces of concrete flatwork, and rock rubble. Although no specific measurements were taken, the revetment slopes appear to generally be inclined at approximate slopes of 1:1 to 1.5:1 (horizontal to vertical). Onshore surface elevations generally range from 12 to 14 feet MLLW. Existing offshore improvements include the approximately 700-foot-long concrete pile-supported Pier 1, a mooring dolphin bayward of Pier 1, and remnants of two old sheet-pile jetties extending into the bay.

4.1 Geologic and Geomorphic Setting

The project site is located on the central east side of San Diego Bay. From a geomorphic standpoint, the site is located within the Peninsular Ranges Geomorphic Province. Easterly of the site lies the dissected San Diego coastal plain, which abuts the San Ysidro and Jamul Mountains. Carved out along the westerly margin of Otay Mesa (and the San Diego coastal plain) is a series of coastal terraces formed at various sea level still stands during Pleistocene time. Regional uplift, faulting, and erosion have modified these distinctive erosional features. Over the last million years, the San Diego region is estimated to have risen at an average rate of about 5.5 inches per 1,000 years (Abbott, 1999). In the last 80,000 years, the rate of uplift has increased to nearly 12 inches per 1,000 years northwest of the Rose Canyon fault zone, and approximately 18 inches per 1,000 years southwest of the Rose Canyon fault zone.

Conversely, these tectonic forces have also caused down-dropping of the region within San Diego Bay. Following the Rose Canyon fault zone southerly, tectonic forces are spread across three major faults (and quite possibly other unidentified faults) that underlie San Diego Bay. These faults (the Silver Strand, Coronado, and Spanish Bight Faults) are believed to transfer tectonic forces to the Descanso Fault, which extends from offshore of Point Loma and continues southerly into Mexico. The right step that occurs between the Rose Canyon and the Descanso fault zones creates a releasing bend that causes the rocks underlying the bay to be stretched and down-dropped to accommodate the movement caused by these tectonic forces. Typical movements along the faults that underlie the bay are observed to experience a significant vertical or normal component to their movement.

From the standpoint of the overall geologic structure, San Diego Bay is a down-dropped faulted trough lying just west of a stable hinterland-coastal plain. Bedrock on the east side of the zone has been slightly deformed as opposed to that on the west side. Faults to the east (i.e., La Nacion-Sweetwater Faults) display down-to-the-west normal displacement. The Rose Canyon system exhibits right-slip (lateral) displacement and is believed to represent a portion of the motion between the North American and Pacific Tectonic Plates. The normal faults that parallel the margins of the bay are likely a result of subsidence and compaction within the sedimentary deposits of the Pliocene-age San Diego Embayment.

4.2 Site Geology

Shown on the geologic map (Figure 1), an approximately 750- to 1,000-foot-wide strip of artificial fill has been placed adjacent to the bayshore, inclusive of the existing Pier 1 area. The fill was most likely derived from dredging of the harbor floor; however, this has not been documented. The thickness of the fill is estimated to be very thin at its distal eastern edge, but thickness toward the bay end reaches 8 to 10 feet near the westernmost edge at the water's edge. Underlying the fill are estuarine and Holocene-age unconsolidated sediments extending to an approximate elevation of -10 to -15 feet MLLW in the site vicinity.

Over the millennia, as subsidence occurred in the bay, sediment was continually flushed out of the uplands and slowly deposited over older Pleistocene-age sediments, leaving the terrace deposits (including the Bay Point Formation), which mantle the coastal terraces around San Diego Bay.

As shown in Figure 3, which depicts the local shoreline in 1930 and present day, the subject site appears to be located within an estuary area that previously existed at the mouth of Chollas Creek. As the site is likely located within the pre-development Chollas Creek mouth, we believe that the geologic contact between terrace deposits and San Diego Formation likely deepens locally relative to areas further north of the mouth of Chollas Creek.

Overlying the late Pliocene/early Pleistocene San Diego Formation are Quaternary-age terrace deposits. These nearshore marine and non-marine deposits are generally composed of interbedded fine- to medium-grained, poorly to moderately consolidated silts, sands, and conglomerates deposited on the wave-cut platforms (terraces) eroded into the Pliocene-age San Diego Formation. This old surface is estimated to extend offshore to a depth locally in

excess of 150 feet below present sea level. Where exposed inland, the San Diego Formation consists of semi-consolidated fossiliferous fine-grained yellow-white/gray sandstone, with lenses of well rounded cobble conglomerate. As the San Diego Formation extends southerly to Mexico, it reaches an estimated thickness of 300 feet. On the basis of a shear wave velocity profile (performed in conjunction with the adjacent Pier 4 subsurface investigation) and geomorphic projections of the shore platform, we estimate that the top of San Diego Formation is near elevation -150 feet MLLW.

4.3 Stratigraphy (Soil Conditions)

Generalized geologic cross-sections of the stratigraphic conditions within the study area are presented on Figures 4, 5, and 6, with the locations of those sections indicated on Figure 2. The materials encountered at Pier 1 within the depths explored consist of recent bay deposits, Holocene nearshore marine deposits, younger Quaternary terrace deposits (also referred to as Bay Point Formation), and older Quaternary terrace deposits, all of which are in turn underlain by the San Diego Formation at depth. In general, these soils consist of loose to medium dense and stiff to hard sands and clays.

More detailed descriptions of the soil units encountered, from oldest to youngest, are presented below.

San Diego Formation: From our geophysical study for Pier 4, located approximately 1,000 feet to the south of the Pier 1 project, the top of the San Diego Formation in the area of the new pier is estimated to be near elevation -150 feet MLLW. The San Diego Formation typically consists of yellow-brown to gray-brown, fine- to medium-grained, poorly to moderately indurated sands and siltstones. The San Diego Formation is described in the literature as being late Pliocene to early Pleistocene in age, covering an area from the southerly flanks of Mount Soledad south to Rosarito Beach in Baja California, Mexico.

Older Quaternary Terrace Deposits: These terrace deposits generally consist of olive-brown to gray-brown, dense to very dense silty sands, and stiff to hard sandy silts and silty clays. These deposits are likely derived from the underlying San Diego Formation and were encountered at approximately -60 feet MLLW, and correspond with an approximately 1,500 ft/sec increase in shear wave velocity.

Younger Terrace Deposits: Younger terrace deposits, also locally known as Bay Point Formation, cover much of San Diego's coastline and generally include a series of middle to late Pleistocene-age paralic deposits derived from the local formational soils. Within the study area, these deposits generally consist of interbedded, medium dense, red-brown to red-gray sands, silty fine sands, and fine sandy to clayey silts.

Holocene Deposits: Medium dense to dense, interbedded gray silty sands with occasional shell were encountered in TCG Borings B-4, B-5, and B-9 down to elevations of -52 to -57 feet MLLW. These elevations appear to correlate with the elevation(s) of the contact between the Holocene and late Pleistocene, as determined by Kennedy and Clarke (OFR 97-10A and 10B, 1999).

Bay Deposits: Recent bay deposits encountered in the area of Pier 1 generally consist of loose to medium dense, gray, micaceous silty sand with occasional shell fragments and gravels and soft clayey silts. These bay deposits generally form a relatively thin (3- to 4-foot-thick) veneer covering the previously dredged surface of the bay floor. The previous dredging operations in the vicinity of Pier 1 have excavated through most of the Holocene-age bay deposits and into the underlying Bay Point Formation, except in the area of TCG Borings B-4, B-5, and B-9. These recent sediments have accumulated since the dredging operations that created the basin and berthing area.

Older bay deposits on the landward side within the SDG&E parcel are believed to be on the order of 10 to 15 feet in thickness and are underlain by younger terrace deposits.

Fill: Fill soils typically comprise the upper 8 to 15 feet of landside improvements, from the ground surface down to elevations on the order of +3 to -5 feet MLLW. Where described in nearby landside borings associated with separate studies, these soils generally consist of loose to medium dense, gray to brown, silty sands and sandy gravels. These soils were most likely locally derived during development around the bayshore.

4.4 Groundwater

We estimate that, due to tidal fluctuations, (landside) transient groundwater highs in the area may periodically reach a maximum of +8 feet MLLW (+7.89 feet NAVD88), particularly along the western margins of the property.

4.5 Faulting and Seismicity

4.5.1 *Regional Geology and Seismicity*

Pier 1 is located near the westerly edge of the approximately 10-mile-wide terraced coastal plain, which bounds the Peninsular Ranges geomorphic province of California. The Peninsular Ranges are a northwest/southeast-oriented complex of tectonic-related blocks separated by generally parallel fault zones (Norris and Webb, 1990). Geomorphically, this province is known for its long, low mountain ranges separated by alluvial-filled valleys. Geologically, the Peninsular Ranges province extends from the Los Angeles Basin to the north, through Baja California to the south.

Offshore from Southern California is an area known as the Continental Borderland. While this area is not officially designated as a geomorphic province, many of those who study the area consider it a separate province due to its complexity. The Continental Borderland is composed of elevated blocks and ridges, which form islands and banks separated by deep, often enclosed basins (Legg and Kennedy, 1991). The Continental Borderland extends from the Santa Barbara Basin to the north, south along the coastline into Mexico, and offshore approximately 160 miles out to the Patton Escarpment.

Movement between the North American and Pacific plates makes Southern California one of the more seismically active regions in the United States. Strain, caused by movement between the North American plate and the Pacific plate, is spread across a 150+ mile wide zone between the San Andreas fault zone located approximately 100 miles east of San Diego, out to and beyond the San Clemente fault zone located approximately 50 miles west of San Diego.

Nearing the end of the Miocene, approximately 5.5 million years ago, the boundary between the North American and Pacific plates moved eastward to its present-day position in the Gulf of California (Abbott, 1999). The resultant extension and stretching of the North American

continental crust formed a rift between the two plates, creating the Gulf of California, which continues opening through the present day. The San Andreas, San Jacinto, Elsinore, Rose Canyon/Newport-Inglewood, and San Clemente fault zones are just a few of the resultant strain features (faults) created by this tectonic movement. Today, there is an estimated 55 to 60 centimeters of relative plate motion per year between the North American and Pacific plates, spread across the faults within this 150+ mile wide zone, of which the Rose Canyon fault zone is estimated to contribute 1.5 mm/year (±0.5mm).

From a seismic standpoint, the site is located within a seismically active region that has experienced earthquakes in recent historic time. The site is located approximately 1,800 feet south-southeast of the Silver Strand Fault, which is considered active, having demonstrated fault activity during the last 10,000 years. Other sources have also identified numerous faults under San Diego Bay. Many of these faults express a normal component (up/down) of movement and are likely related to extensional forces that caused the opening of San Diego Bay.

5 GEOLOGIC HAZARDS

5.1 Introduction

Each project may be exposed to various risks associated with various geologic hazards. Many of those hazards are related to the actions of earthquakes and faulting. In addition to geologic hazards associated with earthquakes and faulting, there are other potential geologic hazards that may impact the proposed project. A brief description of the various geologic hazards and their impact on the project site is presented below.

5.2 Geologic Hazards Associated with Earthquakes

Geologic hazards generally associated with earthquakes include ground rupture, ground shaking, tsunamis, seiches, seismic-induced flooding, liquefaction, seismic-induced ground settlement, and seismic-induced slope instability. With respect to these hazards, we have the following comments.

5.2.1 *Ground Rupture*

An assessment of the potential risk and magnitude of potential fault rupture is beyond the scope of this report. However, a review of USGS and CGS maps indicates that a number of small faults exist underlying San Diego Bay. These smaller faults are likely related to the opening of the San Diego Embayment Graben. No known active faults are mapped as passing or trending through the site. However, there is an apparent offset between Holocene and younger Quaternary sediments located off the end of Pier 1, discovered during our exploratory program. The inferred fault associated with this offset is depicted on Figure 2, as well as in cross-sections on Figures 4 through 6. At this time, it is uncertain whether or not this offset is due to faulting associated with the opening of San Diego Bay or whether it is an erosional feature formed when sea level was lower during the last glacial period. A more detailed study would be required to further assess this feature.

5.2.2 *Ground Shaking*

Historically, a number of larger earthquakes with magnitudes greater than 4.0 have occurred near the site within and around San Diego Bay. The most recent earthquake with magnitude 4.0 occurred in June 1985, with the epicenter located approximately 0.9 mile south of the site on the Silver Strand Fault. The closest and largest historically documented earthquake is reported to have occurred approximately 3.2 miles from the site. That earthquake, reported to have occurred on May 27, 1862, had an interpreted magnitude of 5.9. Using EQSEARCH, which contains a database of historical earthquakes from 1800 to 2007, and a Soil Class D, we estimate the likely historic peak ground acceleration at the site to have been on the order of 0.33g.

5.2.3 *Tsunamis and Seiches*

Tsunamis and seiches are considered likely hazards at this project site. A review of the Tsunami Inundation Map for Emergency Planning for San Diego Bay, dated June 1, 2009, shows the site as lying within a tsunami inundation area.

Recently, San Diego Bay experienced the effects of two tsunamis generated by large, distant earthquakes (the 2010 M8.8 Chilean earthquake and the 2011 M9.0 Japan earthquake). Measurements and observations indicated that areas around the bay experienced tsunami amplitudes on average of 2 feet (0.6 meter), with a maximum of approximately 3.9 feet (1.2

meters) observed at Shelter Island. Docks and boats in the bay experienced moderate damage caused by the unusually high current speeds associated with the water surface changes, estimated locally to be upwards of 12 to 15 knots.

5.2.4 *Liquefaction*

Three key components are required for liquefaction to occur: liquefaction-susceptible soils, groundwater, and strong ground shaking. Soils susceptible to liquefaction are generally loose to medium dense sands and non-plastic silt deposits below the water table. Many of the soil deposits underlying the site are comprised of loose to medium dense sands, non-plastic silts, and loose bay deposits of both Holocene and Quaternary age, most of which exist below the water table.

The risk for liquefaction at the site is dependent upon the location of interest. Results of our liquefaction assessment indicate that the Quaternary-age soils are not liquefiable. However, the fill soils below the groundwater and the bay deposits are potentially liquefiable. As such, once the area of the pier is dredged to elevation -65 feet MLLW, the risk associated with liquefaction of foundation soils is considered to be **negligible** north of the underwater bulkhead walls, whereas with respect to the bay deposit soils retained by the proposed king pile wall, the risk for liquefaction is considered to be **high**, depending upon the level of occurrence of an earthquake event. As indicated on Figure 4 and based on available topography at the time of this study, the majority of bay deposits are expected to be located within the eastern quarter of the existing Pier 1 footprint generally above elevation -22 feet (MLLW). Additionally, considering that near-surface soils landward of the bulkhead line are comprised of loose to medium dense fill soils and bay deposits, the risk for liquefaction for these soil is considered to be **high**.

With regard to the offshore environment pertaining to the Pier 1 improvements, we understand that much, if not all, of the potentially liquefiable soils will be removed by dredging where practical. As such, portions of the liquefiable soils located beneath the pier may not be removed. As such, the king pile will be designed to accommodate the remaining amounts of liquefiable soils. Regarding the landside cooling tunnel component of the project, we understand that liquefiable soils will be altered in-place via ground modifications, removed where necessary, or accommodated by the structural design of new structures. As such, impacts associated with liquefaction will be less than significant.

5.2.5 *Lateral Spreading*

Areas that are susceptible to liquefaction may also be subject to lateral spreading. It is anticipated that liquefiable soils seaward of the bulkhead line within the Pier 1 footprint located above the king pin wall and final dredge elevations will slough during a design level earthquake. In addition, those portions located below the top of the king pile wall and dredged elevation will generally be retained. As such, minor dredging of sloughed soils may be required to remove sloughed soils. In addition, piles located under the pier will need to be evaluated and strengthened if needed to accommodate lateral loads associated with the sloughing soils. In other areas of the project, those soils that are prone to lateral spreading will be altered in-place via ground modification, removed where necessary, or mitigated by structural design of new structures. As such, impacts associated with lateral spreading will be less than significant, given the actions taken above.

5.2.6 *Seismic-Induced Slope Instability*

We understand that the proposed dry dock basin will include slopes with inclinations ranging between 2.25 to 1 to 2.75 to 1 (horizontal to vertical), resulting in underwater slope heights ranging from approximately 32 to 55 feet. The slopes at the western end of the site will generally be comprised of Holocene and/or terrace deposits, and the slopes at the eastern end of the site will generally be comprised of relatively loose bay deposits over terrace deposits. As such, these slopes, particularly those containing loose bay deposits, may be subject to seismic-induced slope instability. Slope stability is discussed in greater detail in Section 6.5.1.

5.2.7 *Landslides*

A review of aerial photographs, published reports and geologic maps, and our site reconnaissance did not reveal any features indicative of ancient natural landslides on or adjacent to the proposed project site limits. In our opinion, the risk associated with landslides at the site is negligible.

6 DRY DOCK COMPONENT GEOTECHNICAL ASSESSMENT

We understand that the proposed dry dock component includes the following:

- Construction of 750-foot long king pile retaining wall along the north side and seaward end of the existing Pier 1. Conceptually, the king piles will be driven to a depth of -90 feet MLLW with intermediate sheets driven to a depth of -70 feet MLLW. The purpose of this wall is to facilitate dry-dock dredging adjacent to Pier 1.

- Construction of 2 new mooring dolphins and expansion of one existing mooring dolphin. One dolphin will be an independent system installed approximately 170 feet seaward of the end of Pier 1. A second dolphin will be installed in the middle portion of Pier 1 and integral with Pier 1 itself.

- Construction of 2 new ramp wharves and one intermediary wharf. These ramp wharves and intermediary wharf will be pile supported structures adjacent to the existing shoreline bulkhead line and will extend approximately 130-feet into the bay.

- Installation of new piles within Pier 1 to strengthen the Pier and to provide lateral support to the proposed king pile wall.

- Construction of a dry-dock sump to provide sufficient depth to accommodate the proposed floating dry-dock. Associated dredging will result in the removal of approximately 395,000 cubic yards of sediment. AMEC Environment & Infrastructure, Inc., in their December 2014 "Hazards and Hazardous Materials Technical Report," characterized the dredged materials as generally consisting of 80 percent native sediment deposits and 20 percent recent bay mud deposits. As such, it is anticipated that dredging efforts could be relatively characterized as 80 percent hard dredging and 20 percent soft dredging by volume.

- Installation of various landside improvements including electrical and mechanical utilities.

We understand that prior to the above construction that an approximately 80-foot long sheet-pile wall will be installed along the shoreline in support of the Shipyard Sediment Cleanup

and Abatement Order No. R9-2012-0024 (CAO). As we understand, the 80-foot-long sheet-pile bulkhead will consist of one 65-foot section and one 15-foot section.

6.1 King Pile Wall

Review of the conceptual layout of the 750-foot long king pile wall indicates that the system will consist of driven stiff steel piles (king piles) with intermediate sheet piles. We understand that the king piles will likely be driven to a depth of -90 feet MLLW with the intermediate sheets driven to a depth of -70 feet MLLW. After dredging of the dry-dock sump to a maximum elevation of -65 feet MLLW, it is anticipated that the retained soil height will be on the order of 35 to 45 feet.

The primary geotechnical issues associated with the proposed wall system will be the static and seismic stability of the wall, and wall construction, particularly with regard to pile driving operations.

6.1.1 *King Pile Wall Stability*

We understand that the proposed king pile wall system will have an embedment depth of 25 feet relative to the proposed dry-dock sump floor (-65 feet MLLW) and will retain a maximum soil height of approximately 45 feet. The wall will experience lateral loads associated with the retained soil and may indirectly experience transient loading associated with the dry dock or other boats tethered to Pier 1. It is anticipated that the proposed wall cannot accommodate lateral loads as an unsupported cantilever system. We understand that the proposed wall will be attached to the existing Pier 1 to acquire the necessary lateral support.

The proposed king pile wall may also experience seismic loading both in terms of loading from Pier 1, as well as increased soil loads. As indicated in Cross Section B (Figure 4), a layer of relatively loose bay deposits, primarily at the eastern end of the wall alignment under Pier 1, are susceptible to liquefaction. These liquefied soils would increase loading on the wall system. We understand that most, if not all, of these loose soils will be removed as part of the proposed dredging.

6.1.2 *King Pile Wall Construction*

We anticipate that the king pile wall will include pile driving of steel piles and steel sheet piles. Pile driving operations will cause soil disturbance, particularly near the ground surface, where temporary plumes of fine-grained sediment may be generated. Additionally, depending upon the contractor's means and methods for construction, pre-drilling or pre-jetting may also occur, also resulting in potential temporary plumes of fine-grained sediment. As such, contaminated soils may need to be excavated prior to pile driving operations. We understand that the excavated contaminated soils will be processed and disposed of in an upland facility and that any remaining contaminated soils will be capped with sand.

6.2 **Mooring Dolphins**

One independent mooring dolphin will be constructed approximately 170-feet seaward of the west end of Pier 1. This mooring dolphin would include a concrete deck supported by a series of vertical and battered piles. We understand that this dolphin will incorporate approximately 25 precast concrete piles embedded below the dredged elevation. An additional mooring dolphin will be constructed integrally with the existing Pier 1. In order to facilitate construction, sections of the existing pier deck will be demolished. After installation of the mooring dolphin piles, the demolished pier deck sections will be reconstructed. The existing western Pier 1 mooring dolphin will be expanded and entails the installation of three additional 24-inch octagonal piles on the south side of the mooring dolphin.

The primary geotechnical issues associated with the proposed mooring dolphins will be the axial and uplift capacity of piles, and dolphin construction, particularly with regard to pile driving operations.

6.2.1 *Mooring Dolphin Pile Capacity*

The proposed mooring dolphins will experience large lateral loads from the floating dry-dock. These lateral loads will be accommodated by both vertical and battered piles. Sufficient embedment into the underlying terrace deposits will be required to provide the necessary frictional and end bearing resistance needed to accommodate the axial and uplift forces associated with the anticipated lateral loading.

6.2.2 *Mooring Dolphin Construction*

We anticipate that mooring dolphin construction will include pile driving of precast concrete piles. Pile driving operations will cause soil disturbance, particularly near the ground surface, where temporary plumes of fine-grained sediment may be generated. Additionally, depending upon the contractor's means and methods for construction, pre-drilling or pre-jetting may also occur, also resulting in potential temporary plumes of fine-grained sediment. As such, contaminated soils may need to be excavated prior to pile driving operations. We understand that any of the excavated contaminated soils will be processed and disposed of in an upland facility.

Additionally, it is expected that a large amount of construction debris will be generated during the demolition of the existing pier deck to facilitate construction of the mooring dolphin that is integral with Pier 1. As such, preventative measures will need to be taken to preclude demolition debris from falling into the water below.

6.3 **Ramp Wharves and Intermediary Wharf**

We understand that each of the two proposed ramp wharves and intermediary wharf will consist of a reinforced concrete deck supported by pre-cast concrete piles.

The primary geotechnical issues associated with the wharves will be the axial capacity of piles which will be required to accommodate heavy vehicular loads, lateral loads from seismic events, and ramp wharf construction, particularly with regard to pile driving operations.

6.3.1 *Ramp Wharf Pile Capacity*

The ramp wharves will experience significant axial loads from heavy vehicles. Sufficient embedment into the underlying terrace deposits will be required to provide the necessary frictional and end bearing resistance needed to accommodate those forces. Piles will also be required to provide the necessary axial and uplift resistance to seismically-induced lateral loads.

6.3.2 *Ramp Wharf Construction*

We anticipate that ramp wharf construction will include pile driving of precast concrete piles. Pile driving operations will cause soil disturbance, particularly near the ground surface, where temporary plumes of fine-grained sediment may be generated. Additionally, depending upon the contractor's means and methods for construction, pre-drilling or pre-jetting may also occur, also resulting in potential temporary plumes of fine-grained sediment. As such, contaminated soils may need to be excavated prior to pile driving operations. We understand that any of the excavated contaminated soils will be processed and disposed of in an upland facility.

6.4 **Supplemental Pier 1 Piles**

We understand that additional piles may be added along the existing Pier 1 to provide additional support to the Pier 1 deck and to provide additional lateral support for the proposed king pile wall.

The primary geotechnical issues associated with the supplemental piles will be the achievement of sufficient axial and uplift capacity of piles which will be required to accommodate loads on the Pier 1 deck, lateral loads from the king pile wall and seismic events, and pile installation, particularly with regard to pile driving operations.

6.4.1 *Supplemental Pile Capacity*

The proposed supplemental Pier 1 piles may experience large lateral loads from the floating dry-dock, as well as from the proposed king pile wall system. These lateral loads will be accommodated by both vertical and battered piles. Sufficient embedment into the underlying terrace deposits will be required to provide the necessary frictional and end bearing resistance needed to accommodate the axial and uplift forces associated with the anticipated lateral loading.

6.4.2 *Supplemental Pile Construction*

We anticipate that installation of supplemental piles will include pile driving of precast concrete piles. Pile driving operations will cause soil disturbance, particularly near the ground surface, where temporary plumes of fine-grained sediment may be generated.

Additionally, depending upon the contractor's means and methods for construction, pre-drilling or pre-jetting may also occur, also resulting in potential temporary plumes of fine-grained sediment. As such, contaminated soils may need to be excavated prior to pile driving operations. We understand that any of the excavated contaminated soils will be processed and disposed of in an upland facility.

6.5 Dry-Dock Sump

We understand that a sump will be constructed to accommodate the proposed 55,000 ton dry-dock. The proposed dredged bottom will have approximate footprint of 215 feet by 876 feet with a bottom elevation of -65 feet MLLW. The portion of the sump adjacent to Pier 1 will be supported by the proposed king pile wall system. The remaining portions of the sump will incorporate dredged slopes.

The primary geotechnical issues associated with the sump will be static and seismic stability of the dredged slopes, and dredging operations.

6.5.1 *Sump Slope Stability*

We understand that the proposed dredged basin will have a bottom elevation of -65 feet MLLW with side slopes ranging in inclination between 2.25 to 1 and 2.75 to 1 (horizontal to vertical). Given the current site bathymetry, we estimate that the dredged slopes will have heights between approximately 32 and 55 feet. The slopes at the western end of the site are expected to consist of Holocene deposits overlying younger terrace deposits, and the slopes at the eastern end of the site will generally be comprised of relatively loose bay deposits over younger terrace deposits. As such, those portions of slope containing loose bay deposits may be subject to seismic-induced slope instability.

We have considered a 55-foot-tall slope with an inclination of 2.25 to 1 (horizontal to vertical), which we understand represents the most critical slope geometry for the proposed basin. Preliminary analyses indicate factors of safety for static slope stability to be greater than 1.5.

With regard to seismic slope stability, we anticipate that the dredged slope would be expected to experience some permanent displacement under the Maximum Considered Earthquake (CBC/ASCE 7-10). The estimated permanent displacement anticipated is less

than 3 inches. The 3-inch displacement threshold was used for this project as a screening measure to assess relative significance of potential impact. Displacements less than the screening value are considered less than significant. Under the MOTEMS Level 1 and Level 2 earthquakes, the slope would remain stable with negligible, if any, permanent displacement. We estimated permanent slope displacement using the methodology developed by Bray and Travasarou.

6.5.2 *Dredging*

We anticipate that sediments to be dredged will generally consist of loose and soft surface sediments (bay deposits), and medium dense to dense younger terrace deposits (Bay Point Formation), Holocene deposits and older Quaternary terrace deposits. From a geotechnical perspective, we anticipate that this dredging may be accomplished with conventional dredging methods, equipment, and operations as modified to accommodate environmental concerns. As previously mentioned, AMEC Environment & Infrastructure, Inc., in their November 2014 "Hazards and Hazardous Materials Technical Report," characterized the dredged materials as generally consisting of 80 percent native sediment deposits and 20 percent recent unconsolidated bay mud deposits. As such, it is anticipated that dredging efforts could be relatively characterized as 80 percent hard dredging and 20 percent soft dredging by volume. Dredging equipment and methods will largely be determined by the contractor performing the work. As such, depending upon the equipment used, a permit may need to be obtained through the San Diego County Air Pollution Control District (APCD). Furthermore, the condition of the dredged sediment will be analyzed, and the disposal, dewatering, and handling of dredged material should be discussed in a separate hazardous materials report.

It should be noted that there are two existing sheet pile jetties, presumably associated with the function of the existing cooling tunnels, which are located at the eastern end of the proposed sump. Those structures will need to be removed during or before the dredging process.

Facilities impacted by the dredging will include the proposed king pile wall and Pier 1 as well as existing and proposed bulkhead walls along the bulkhead line. As such, the inclinations of the dredged excavations and depths of removals may need to be adjusted to maintain the stability of surrounding structures. Removal of sediment below Pier 1 will impact the capacity of piles currently supporting the pier. Analysis of existing pile capacities

will need to consider the potential for reduced pile capacities as a result of dredging, and additional supplementary piles will need to be considered if additional capacity is required.

6.6 Additional Considerations for Offshore Improvements

As described in Sections 6.1 through 6.5, an anticipated result of pile driving and dredging will be temporary turbidity due to disturbance of sediment during the various underwater construction processes. It is recommended that turbidity be monitored throughout construction. Turbidity may be mitigated through implementation of silt curtains surrounding the impacted areas.

6.7 Landside Improvements

We understand that electrical and mechanical utilities will be installed to support dry-dock operations. Proposed utilities will be similar in nature to currently existing utilities. Necessary piping will be installed underground or in trenches from existing services.

Geotechnical issues associated with these landside improvements will pertain primarily to trench excavation, subgrade preparation, and backfill compaction.

6.7.1 *Utility Trench Construction*

Utility trench construction will include removal of existing surface pavements and excavation along the trench alignments. Backfill and compaction of clean structural backfill may be required. Additionally, excavated soils may need to be shipped to an appropriate landfill facility depending on sediment characterization.

7 COOLING TUNNELS COMPONENT GEOTECHNICAL ASSESSMENT

7.1 Introduction

The cooling tunnels component work includes the removal of two sets of existing cooling tunnels that were used by the former SDG&E Silvergate Power Plant.

For purposes of our discussion, we have assumed that removal of the cooling tunnels will be handled by excavating soils surrounding the cooling tunnels to expose the cooling tunnels for demolition; demolition of the cooling tunnels themselves in order to reduce the cooling tunnels into pieces of debris that can be transported from the site; and restoring site grades. Factors that affect removal of the cooling tunnels include the nature and stability of the soils covering the cooling tunnels, the presence of groundwater, the method of demolition of the cooling tunnels (will the operation be performed in the dry or in the wet), and the characteristics of the restored site.

Given that the existing cooling tunnels are buried and located below the groundwater table, there are conceptually two general approaches that can be taken to remove the cooling tunnels. The first approach is to create a dry environment within which the demolition and removal of the demolished cooling tunnels can take place. The second approach demolishes and removes the demolished cooling tunnels in the wet. The selection of the general approach to demolition of the cooling tunnels and removal of the demolished sections of the cooling tunnels directly impact how one approaches the excavation of overburden soils and the control of groundwater during construction.

As we understand, both the overburden soils and the groundwater may be contaminated to various extents. The handling and potential processing of the excavated materials, including both soil and the cooling tunnels, as well as the treatment and discharge of the encountered groundwater, must therefore adequately mitigate all hazardous materials concerns. Our assessment pertains only to the geotechnical issues related to the operations and does not address the handling of any hazardous materials associated with removal of the cooling tunnels.

Existing reports prepared by ENV America Incorporated and Ninyo & Moore indicate the potential for contaminated soils in the area of the cooling tunnel footprint. A project-level hazardous materials report will be required prior to the design phase of the cooling tunnels removal. The hazardous materials report should include appropriate means for testing, handling, and disposal of contaminated soil, as well as appropriate worker health and safety assurance in accordance with 29 CFR Part 120.

Within this understanding, the geotechnical issues associated with the demolition and removal of the cooling tunnels include:

1. Providing and maintaining access to the cooling tunnels for their demolition and removal;

2. Removal of demolished cooling tunnels; and

3. Backfilling the resulting ground void.

Brief discussions concerning these issues are presented in the following sections.

7.2 Description of Cooling Tunnels

The tunnel locations are indicated on Figures 2 and 6. Within the study area, the intake and discharge tunnels have lengths of 490 feet and 450 feet, respectively. We understand that each set of tunnels consists of four 8-foot by 8-foot chambers, with an overall rectangular section having an approximate width of 38 feet and a height of 11 feet. A total of four manholes provide access to the sets of tunnels. The invert elevation of the tunnels is at an approximate elevation of -12 feet (1941 datum), with localized low points at -14.5 feet (1941 datum) directly below the manholes. Schematic drawings of the tunnel structures indicate a tunnel wall thickness on the order of 1.33 feet. Ground surfaces generally range between elevation +10 and +14 feet, indicating that the bottom of the cooling tunnel structures may be located on the order of 23 to 28 feet below grade, depending upon local ground elevations.

As part of the aforementioned Shipyard Sediment Cleanup and Abatement Order, a sheet-pile bulkhead with a total length of 80 feet will be installed along the bulkhead line between the two existing cooling tunnel inlet/outlet structures. As we understand, this sheet-pile bulkhead will have one 65-foot section and one 15-foot section. Installation of this wall will facilitate the removal and regrading of the existing slope to allow for the proposed sump. A new rock-covered slope extending from the top of the submerged sheet-pile wall to the level landward parcel will also be installed. The existing and proposed shoreline bulkhead wall and slope treatment are shown on Figures 7 through 10.

7.3 Accessing Cooling Tunnels Assuming Demolition in the Dry

The two geotechnical issues associated with the demolition of the cooling tunnels in the dry include:

1. The excavation system required to get to the cooling tunnels, and

2. The dewatering and groundwater control system needed to maintain dry conditions for the demolition of the cooling tunnels.

Discussions concerning the excavation and dewatering are presented below.

7.3.1 *Excavation and Shoring*

Prior to excavation, it is anticipated that a number of existing utilities, structures, and equipment will likely need to be relocated. Based upon existing knowledge of the cooling tunnels, it is anticipated that excavations on the order of 30 feet in depth and 40 to 80 feet in width (depending upon the location) will need to be made to facilitate removal of the existing cooling tunnels. Excavations will primarily occur in fill soils and underlying bay deposits.

Throughout the tunnel alignments, the near-surface soils typically consist of 8 to 10 feet of fill soils that vary from relatively permeable sands to less permeable silts and clays. These materials are underlain by loose to medium dense, permeable sands with occasional gravels and silts extending down to the Bay Point Formation near elevation -15 feet, with the bottoms of the cooling tunnels at or near the contact with the Bay Point Formation. These younger terrace deposits within the study area also consist of interbedded medium dense sands, silty fine sands, and fine sandy to clayey silts that are also considered to be relatively permeable.

Given the consistency of these soil types and the need to restrict or minimize the amount of excavated soil, shoring will be required to make the excavations. Typical shoring types may include steel sheet piling or secant-pile walls. With shoring heights on the order of 30 feet, some form of lateral restraint will likely be required, with such lateral restraint being typically provided either by ground anchors or struts and walers to transfer the horizontal restraint across the shoring wall. However, one alternative method for laterally stabilizing the excavation is to employ deep-soil mixing to create a soil-cement modified zone adjacent

to the cooling tunnels. In addition, regardless of the system selected, the system will need to be effective at preventing the infiltration of groundwater into the excavation.

After the shoring system is in place, the excavation can proceed once the work area has been dewatered. In this case, the soils and materials removed from the excavation will have lower water contents and there will be less excavated water to treat, control, and process. The excavation of materials should not start until groundwater levels have been lowered to the desired level. This may not necessarily correspond to the excavation being completely dewatered, but dewatered sufficiently to permit the excavation to begin. The rate of excavation will be directly related to the rate of groundwater lowering.

7.3.2 *Construction Dewatering and Groundwater Control*

The anticipated bottom of excavation may be near elevation -15 feet MLLW, with a fluctuating groundwater table that may reach +8 feet MLLW. As such, in order to maintain a dry excavation, construction dewatering will be needed. When selecting a construction dewatering system, a determination should be made as to what requires dewatering. For example, does only the excavation need to be dewatered or does an area outside of the excavation also need to be dewatered?

Some projects require that a dewatering system be designed to lower groundwater around the exterior of the shoring to reduce the soil loading on the shoring system, thereby reducing shoring costs. Such an approach has potential consequences depending upon the location of adjacent structures and facilities. With upwards of 30 feet of near-surface soils, any significant dewatering outside of the excavation will also result in measurable ground settlement associated with increased effective stresses associated with a temporary reduction in the groundwater level. Groundwater-induced settlements in close proximity to the shoring may result in damage to any settlement-sensitive structures or other surface improvements. As such, to protect such facilities and structures, dewatering of only the excavation may be preferable.

In addition to potential induced ground settlement issues, the dewatering system needs to be designed to maintain the stability of the excavation subgrade. Given the relatively permeable stratigraphic section, the temporary shoring must penetrate the Bay Point Formation a sufficient distance to minimize groundwater flow from under the sheet piles, and importantly a sufficient distance to preclude heaving of the bottom of the excavation resulting from

excess uplift pressures associated with 21+ feet of differential head (assuming a static groundwater elevation of +6 feet and the groundwater within the excavation right at the elevation of the excavation at -15 feet).

Also, any construction activity within the excavation, including the compaction of imported fill soils to fill the excavation, would likely necessitate maintaining the groundwater level within the excavation a minimum of 2 to 3 feet below the bottom of the excavation, or near elevation -17 to -18 feet MLLW.

Given these highly permeable fill soils, bay deposits, and even the underlying terrace deposits, dewatering volumes may be rather large, with reductions achieved through deeper shoring. The dewatering volume may also contain contaminants requiring a water treatment system for its disposal. The need for treating and disposing of contaminated water, along with any contaminated soils, is discussed in more detail in the Water Quality and Hydrology technical report and the Hazards and Hazardous Materials technical report.

In any case, construction dewatering will need to occur to enable removal of the cooling tunnels, followed by backfilling. Using a shoring system such as sheet piling or secant piling, or even a soil-cement treated gravity mass, may be generally effective at reducing groundwater infiltration into the excavation, but infiltration cannot be eliminated. As such, dewatering pumps will be required to further remove groundwater from the excavation. Depending upon the volume of water produced, and the water quality, water may possibly be treated and discharged locally, or may have to be hauled to an appropriate facility. Dewatering volumes, means and methods, water treatment, and the need for appropriate permits, should be assessed during the project-level or design phase assessment of the cooling tunnels removal project.

Lastly, any dewatering system proposed should include a sufficient groundwater monitoring system, consisting of piezometers and wells, to verify that dewatering is being achieved and that the dewatering system is performing as designed. Oftentimes, dewatering systems need to be modified during the construction process in order to maintain project objectives.

7.4 Backfilling Operations in the Dry

Based upon available schematic drawings of the cooling tunnels and knowledge of ground surface elevations, it is estimated that approximately 40,000 cubic yards of soil will be

required to backfill the excavated area. It is recommended that a clean structural backfill be used to prevent differential settlement at the ground surface. Given that the backfilling operations would be performed in the dry, fill soils should be placed as a structural fill with the prerequisite compaction, observation, and testing. Construction means and methods with regard to backfilling should be assessed during the design phase of the cooling tunnel removal project.

7.5 Accessing Cooling Tunnels Assuming Demolition in the Wet

Given the many construction-period challenges associated with dewatering, contractors may also consider the possible removal of the cooling tunnels in the wet, with little or no dewatering proposed.

To illustrate, consider the following hypothetical operation. Once the temporary shoring is constructed, and depending upon the stiffness of the shoring system, a single row of struts or tiebacks could be installed near elevation +6 feet MLLW, remaining above the tidally influenced groundwater level most of the time. Since the tops of the cooling tunnels are near or slightly below Mean Lower Low Water, and given tidal fluctuations, all of the overburden soils within the shored excavations could be removed with conventional grading equipment, then the cooling tunnels cut up with hydraulically operated underwater chainsaws attached to an excavator, thereby minimizing any in-water work with construction personnel. The presence of the formational Bay Point terrace deposits around elevation -15 feet, or right below the bottom of the cooling tunnels, provides an easily recognized condition in the field once encountered. As such, no additional subgrade preparation is necessary. That said, and unlike construction in the dry, no fill soils can be adequately compacted underwater and this approach would require the use of a gravel backfill for all excavation fill below around elevation +3 or +4 feet MLLW. Once out of the tidal water, conventional fill operations can then proceed up to existing grade. Once grades are back up to around elevation +6 feet or so, if it is desirable to remove the shoring, steel sheet piles are relatively easy to extract with a vibratory hammer. However, a secant pile shoring system, in our estimation, would be nearly impossible to remove. That said, the as-built location of the secant-pile wall would be accurately known and the top portion of the secant-pile wall, say above elevation 6 feet, could be cut off, with the engineered fill then brought up to subgrade. Depending upon future development needs, the presence and elevation of the secant-pile wall could be incorporated into future site development plans. Lastly, it should also be noted that, in our

opinion, if construction were completed in the wet and a 15± foot thick gravel layer placed approximately 10 feet below grade, this subgrade condition should not pose a problem for most lightweight construction. Notably, a 15-foot-thick gravel mat may create certain construction challenges for future drilled pier foundations or installation of smaller pre-stressed concrete piles.

Given that construction in the wet is feasible, we note the following three geotechnical issues associated with the demolition of the cooling tunnels in the wet:

1. The excavation system required to get to the cooling tunnels,

2. The possibility of partial dewatering and groundwater control needed for the demolition of the cooling tunnels, and

3. The demolition and removal of cooling tunnels debris.

Discussions concerning these issues are presented below.

7.5.1 *Excavation and Shoring*

The issues associated with excavation and shoring are similar to the issues associated with performing the demolition of the cooling tunnels in the dry, with the primary differences being that materials excavated will be saturated and will likely require special handling to accommodate the excessive wetness of the materials, and that the demolition of the cooling tunnels will be performed underwater using remote equipment. As such, processing areas may be required to allow the excavated soils to drain before hauling them off the site.

7.5.2 *Construction Dewatering and Groundwater Control*

Little to no construction dewatering is anticipated for this approach, as groundwater levels are not required to be lowered to demolish the cooling tunnels. As such, the volume of groundwater that will need to be treated is anticipated to be limited.

7.5.3 *Demolition of Cooling Tunnels and Removal of Cooling Tunnels Debris*

The demolition of cooling tunnels in the wet is anticipated to require special excavating and demolition equipment to reduce and prepare the cooling tunnels structures for removal. Such operations will be conducted below water. We anticipate that excavators will be able to remove the demolished cooling tunnels debris from along the edges of the excavations. These operations will need to be structured to allow the dewatering of the debris as it is removed from the excavation. As such, temporary decanting areas or barges may be required to allow the debris to drain before loading and hauling from the site. In addition, divers may be needed to periodically inspect the underwater demolition of the cooling tunnels in order to assess completeness of demolition, as well as modification of operations. Depending upon the level of dewatering of the debris, special enclosed hauling trucks may be required to haul some of the debris.

7.6 **Backfilling Operations in the Wet**

Given that the excavation will still have water in it after the cooling tunnels have been removed, backfilling of the excavation will require the use of coarse-grained soils, such as gravel, quarry run, or other suitable materials sufficiently graded and permeable to allow placement underwater with self-consolidation properties. As an alternative, clean sands could be placed and then vibrated using vibro-compaction methods similar to the placement of stone columns in order to achieve suitable densification. Such operations will require special materials for use in the backfill operations.

Based upon available schematic drawings of the cooling tunnels and knowledge of ground surface elevations, it is estimated that approximately 40,000 cubic yards of materials will be required to backfill the excavated area for the wet construction alternative. Roughly two-thirds of the total volume, or 26,000 to 27,000 cubic yards, would consist of gravels or crushed rock. For the upper one-third of the excavation backfill, it is recommended that a clean structural backfill be used to prevent differential settlement at the ground surface. Given that the backfilling operations of the upper one-third of the excavation would be performed in the dry, fill soils should be placed as a structural fill with the prerequisite compaction, observation, and testing. Construction means and methods with regard to backfilling should be assessed during the design phase of the cooling tunnel removal project.

8 LIMITATIONS

Professional judgments presented herein are based partly on our evaluation of the technical information gathered, partly on our understanding of the proposed construction, and partly on our general experience in the geotechnical field. We have observed only a small portion of the pertinent soil and subsurface conditions at the proposed project site. The recommendations made herein are based on the assumption that soil conditions do not deviate appreciably from those found during our field investigation. If the plans for site development are changed, or if variations or undesirable geotechnical conditions are encountered during construction, the geotechnical engineer should be consulted for further recommendations.

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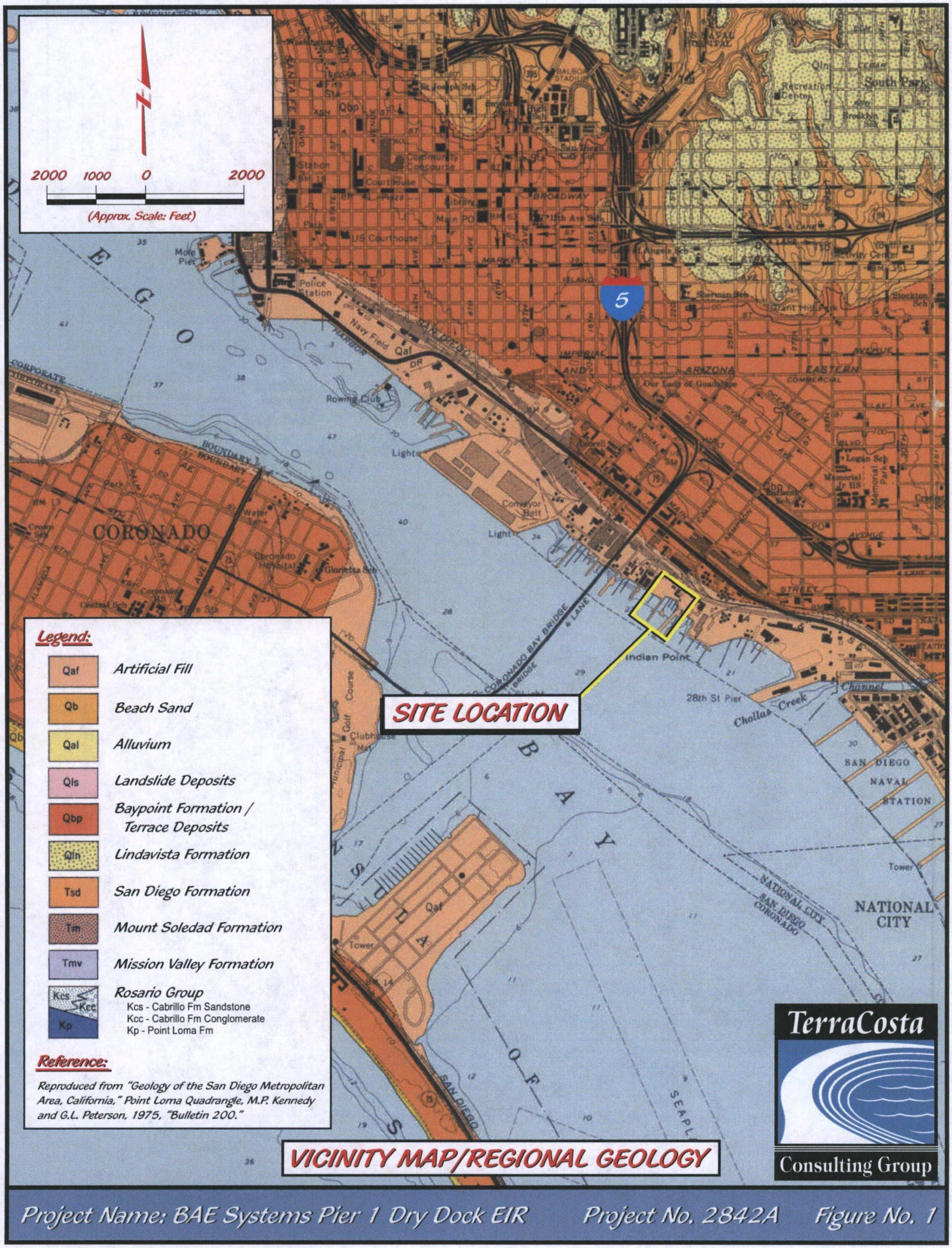
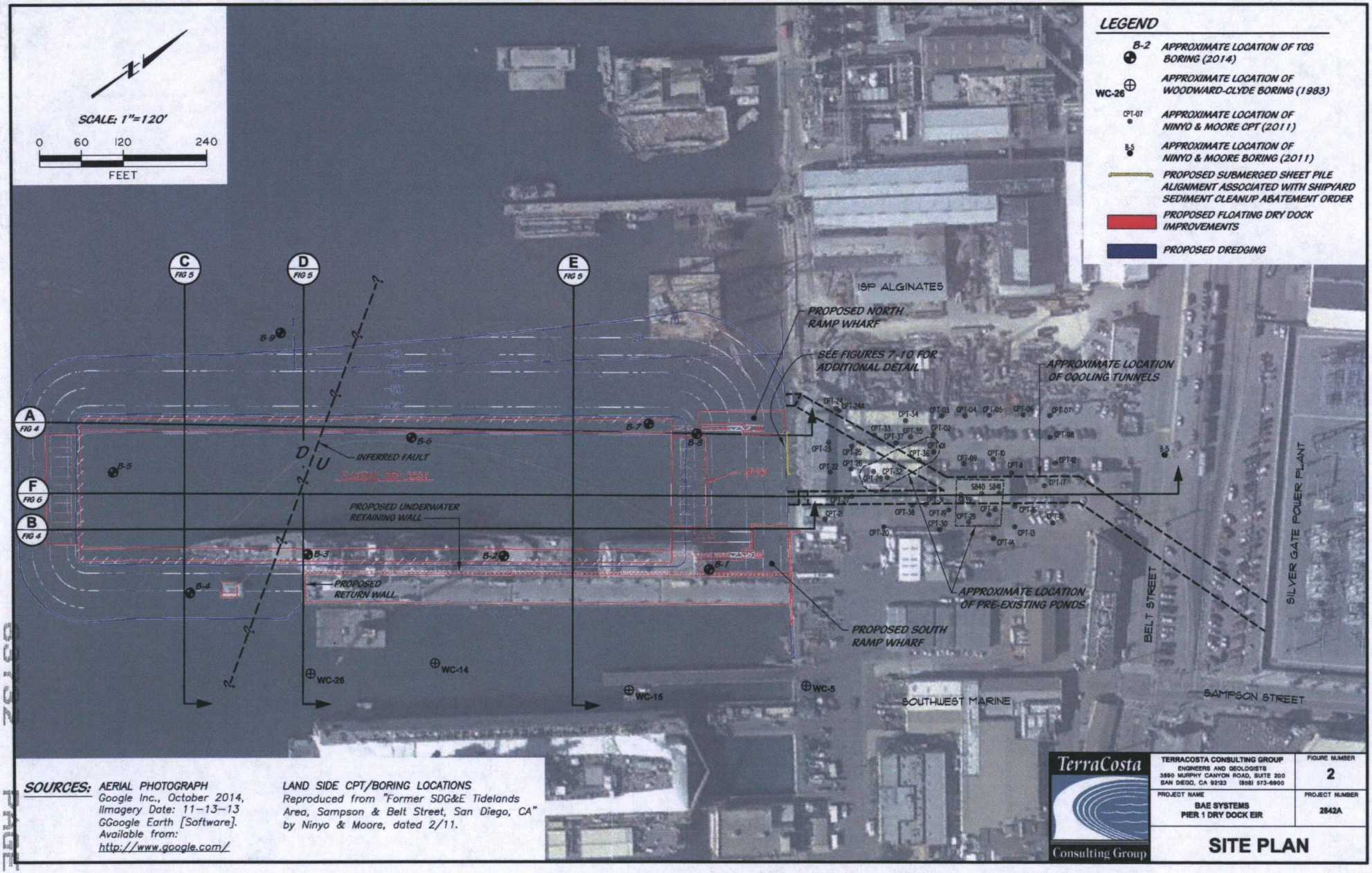


VICINITY MAP/REGIONAL GEOLOGY

TerraCosta Consulting Group

Project Name: BAE Systems Pier 1 Dry Dock EIR Project No. 2842A Figure No. 1



SOURCES: AERIAL PHOTOGRAPH
Google Inc., October 2014, Ilmagery Date: 11-13-13 GGoogle Earth [Software]. Available from: http://www.google.com/

LAND SIDE CPT/BORING LOCATIONS
Reproduced from "Former SDG&E Tidelands Area, Sampson & Belt Street, San Diego, CA" by Ninyo & Moore, dated 2/11.

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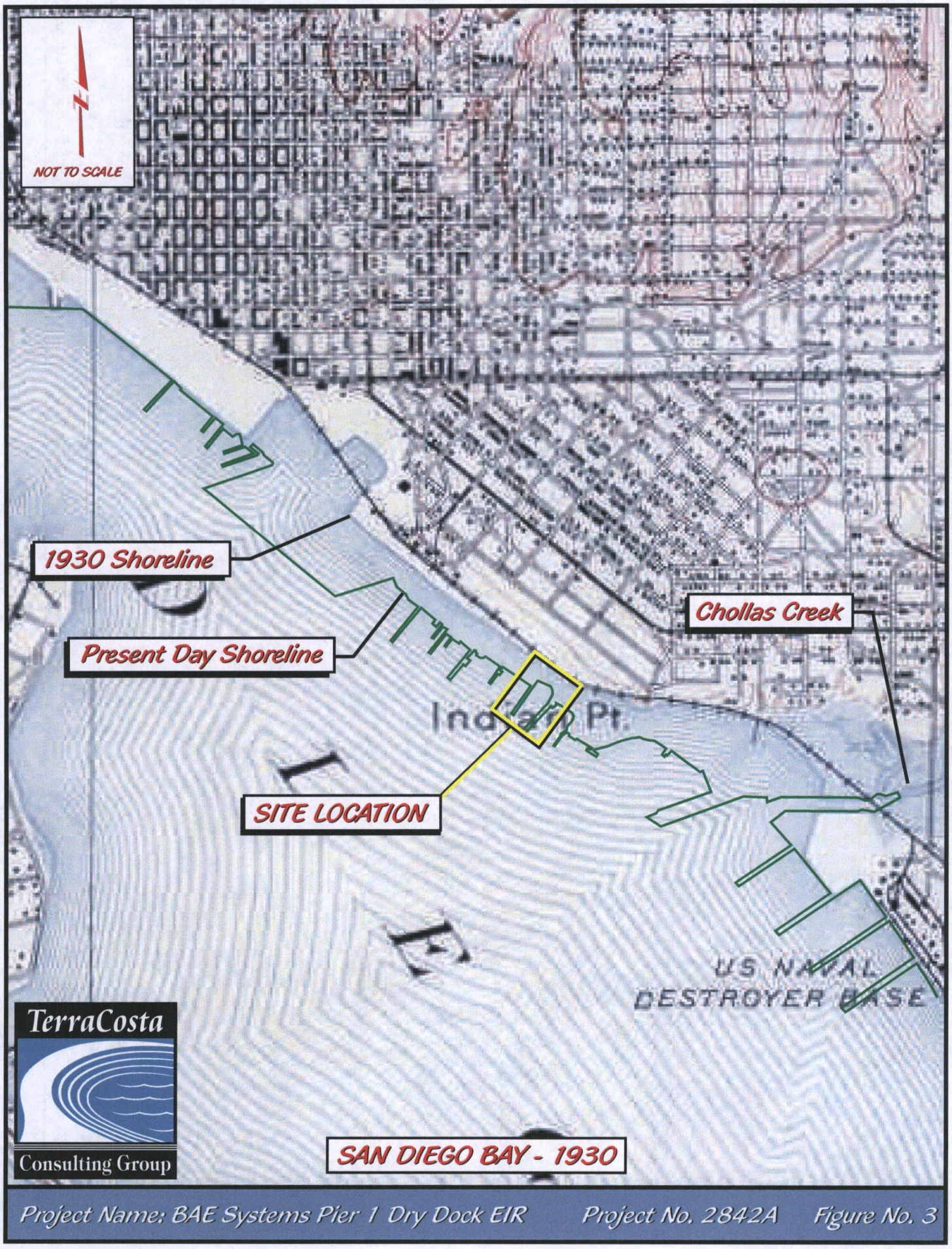
SAN DIEGO, CA 92123 (858) 573-6900

FIGURE NUMBER 2

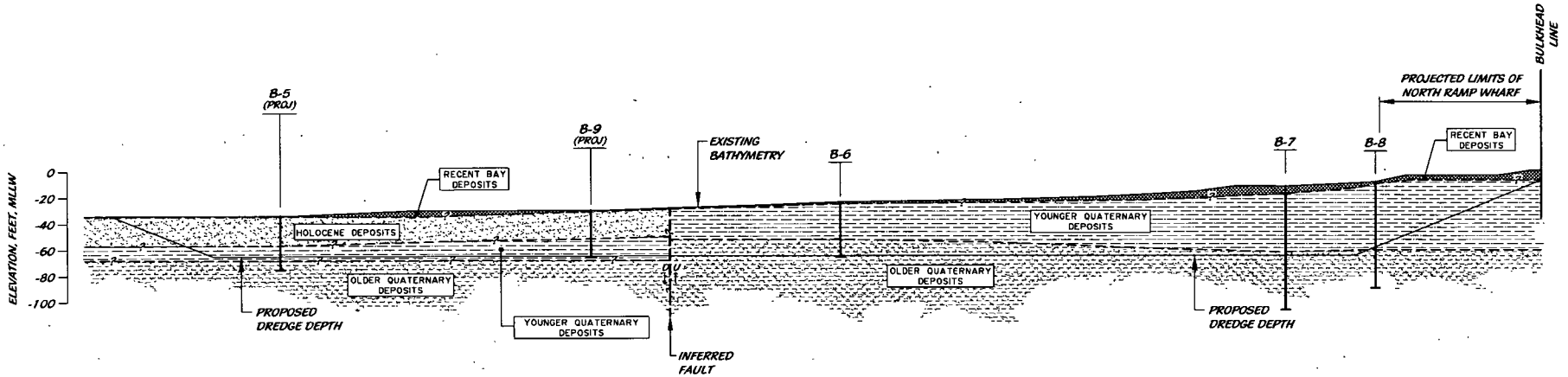
PROJECT NAME
BAE SYSTEMS
PIER 1 DRY DOCK EIR

PROJECT NUMBER 2842A

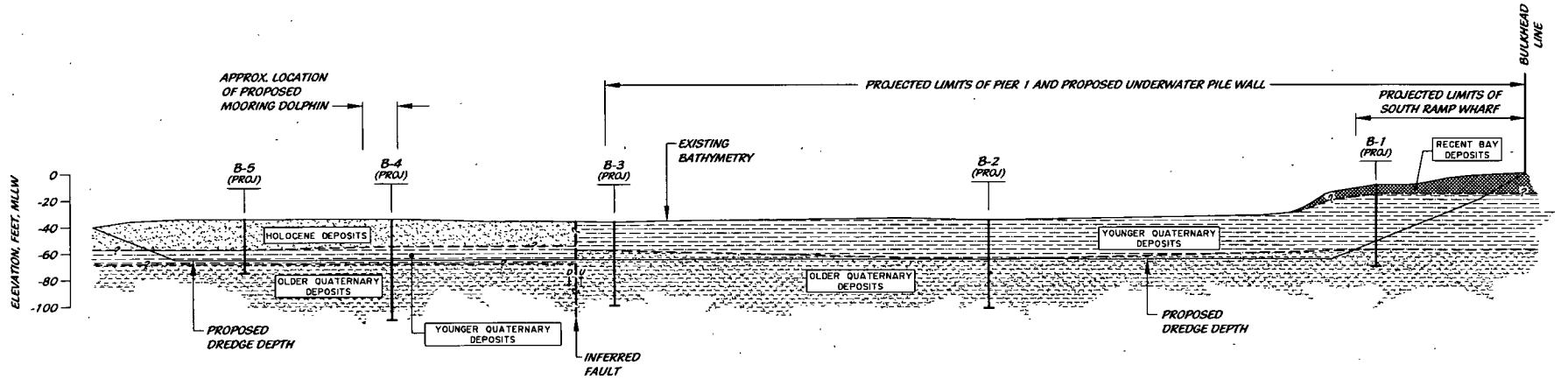
SITE PLAN



Project Name: BAE Systems Pier 1 Dry Dock EIR Project No. 2842A Figure No. 3



APPROX. 200 FEET NW OF EXISTING PIER
CROSS SECTION
SCALE: 1"=80' (HORIZ & VERT.)
A
FIG 2



APPROX. 68 FEET NW OF EXISTING PIER
CROSS SECTION
SCALE: 1"=80' (HORIZ. & VERT.)
B
FIG 2

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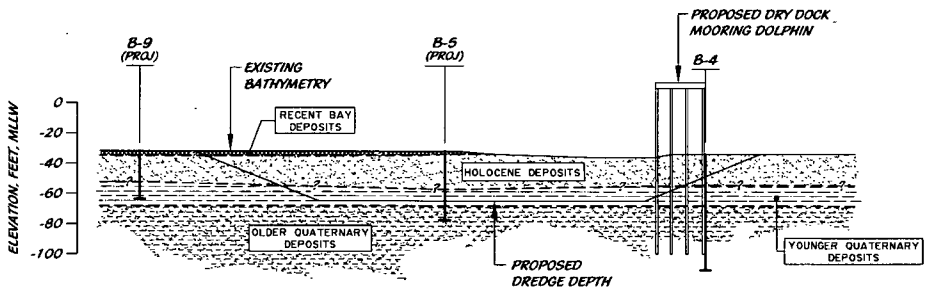
FIGURE NUMBER: 4

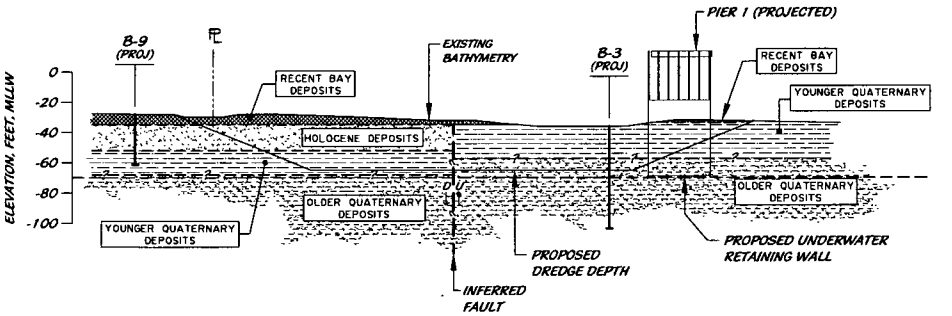
PROJECT NAME: BAE SYSTEMS PIER 1 DRY DOCK EIR

PROJECT NUMBER: 2842A

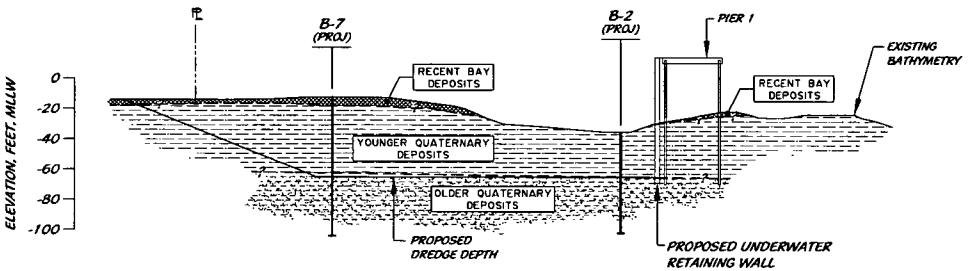
CROSS SECTIONS



STA 8+70
CROSS SECTION C
SCALE: 1"=80' (HORIZ. & VERT.) FIG 2



STA 7+00
CROSS SECTION D
SCALE: 1"=80' (HORIZ. & VERT.) FIG 2



STA 3+12
CROSS SECTION E
SCALE: 1"=80' (HORIZ. & VERT.) FIG 2

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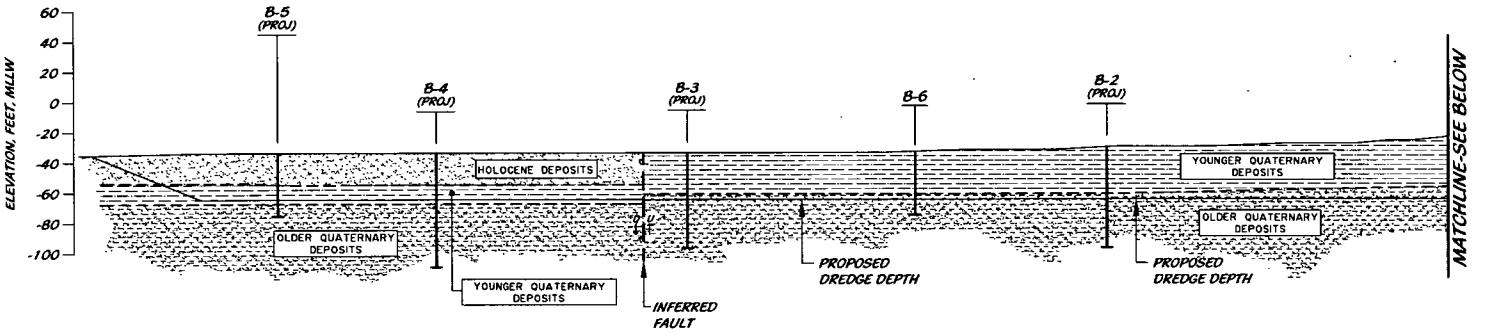
FIGURE NUMBER
5

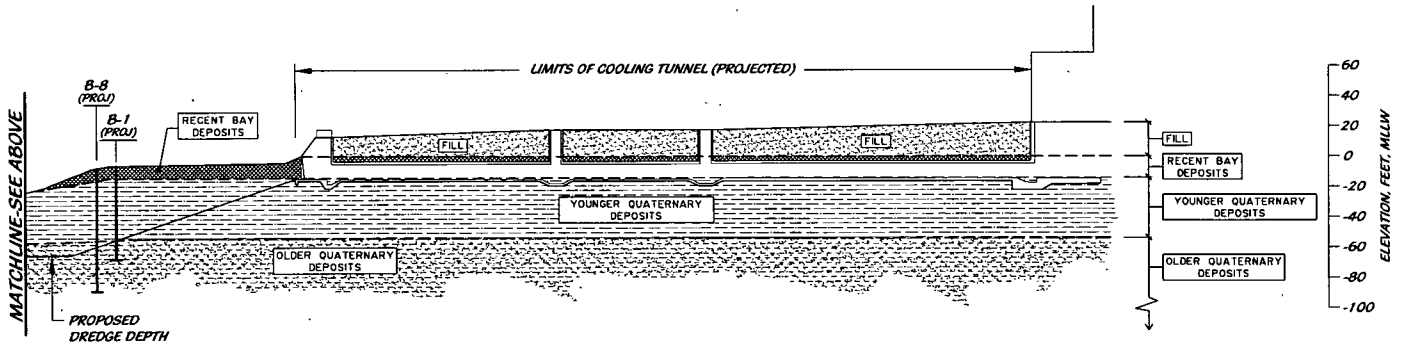
PROJECT NAME
BAE SYSTEMS
PIER 1 DRY DOCK EIR

PROJECT NUMBER
2842A

CROSS SECTIONS

TRLD 7:50 02 Dec 08





THROUGH COOLING TUNNER
CROSS SECTION
SCALE: 1"=80' (HORIZ. & VERT.)

F
FIG 2

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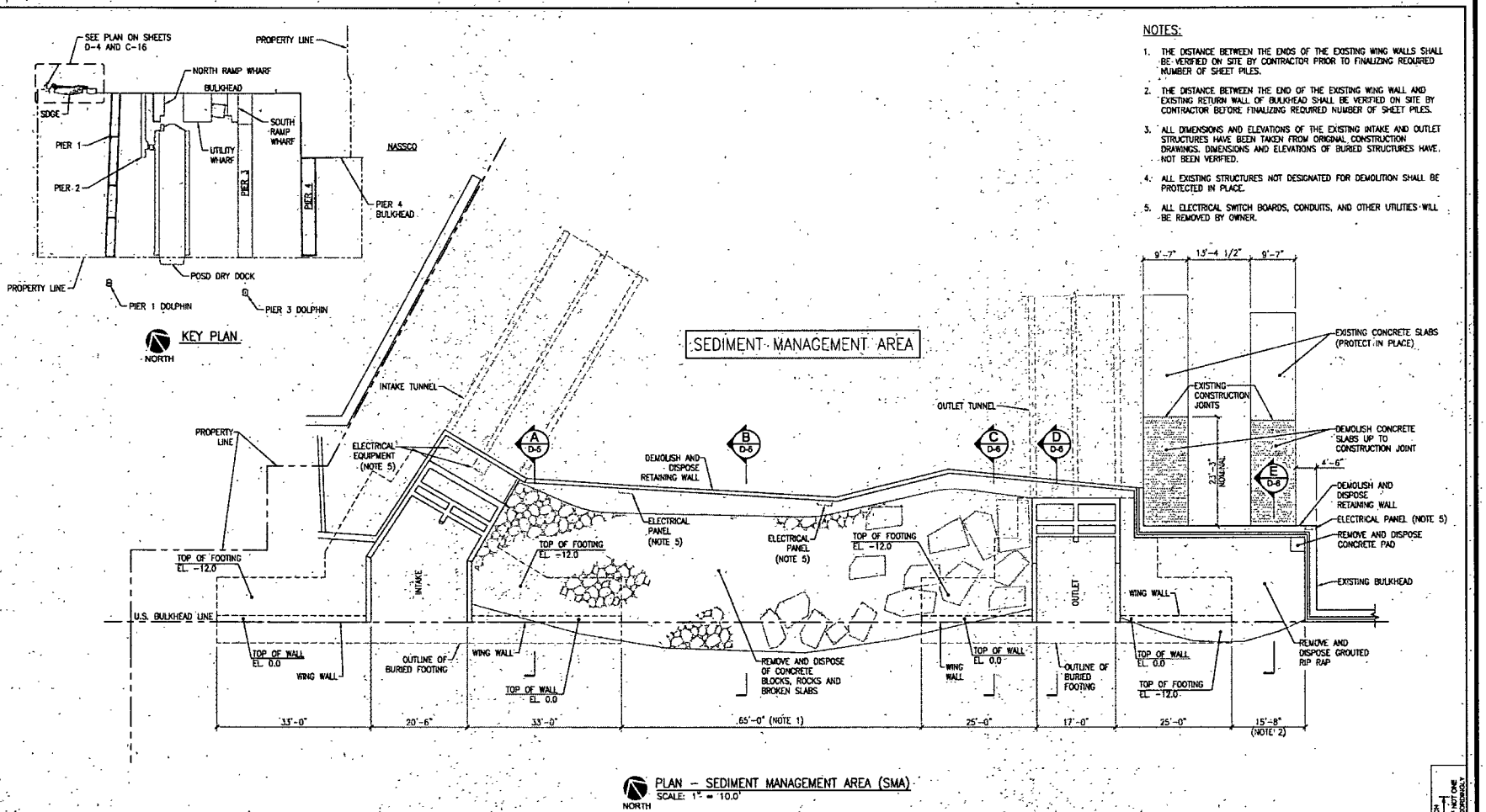
FIGURE NUMBER: 6

PROJECT NAME: BAE SYSTEMS PIER 1 DRY DOCK EIR

PROJECT NUMBER: 2842A

CROSS SECTIONS



NOTES:

1. THE DISTANCE BETWEEN THE ENDS OF THE EXISTING WING WALLS SHALL BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO FINALIZING REQUIRED NUMBER OF SHEET PILES.
2. THE DISTANCE BETWEEN THE END OF THE EXISTING WING WALL AND EXISTING RETURN WALL OF BULKHEAD SHALL BE VERIFIED ON SITE BY CONTRACTOR BEFORE FINALIZING REQUIRED NUMBER OF SHEET PILES.
3. ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING INTAKE AND OUTLET STRUCTURES HAVE BEEN TAKEN FROM ORIGINAL CONSTRUCTION DRAWINGS. DIMENSIONS AND ELEVATIONS OF BURIED STRUCTURES HAVE NOT BEEN VERIFIED.
4. ALL EXISTING STRUCTURES NOT DESIGNATED FOR DEMOLITION SHALL BE PROTECTED IN PLACE.
5. ALL ELECTRICAL SWITCH BOARDS, CONDUITS, AND OTHER UTILITIES WILL BE REMOVED BY OWNER.

ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

TerraCosta Consulting Group

TRITON ENGINEERS
Civil, Structural & Waterfront

REVISIONS				
REV	DATE	BY	APP'D	DESCRIPTION
1	4/7/2014	JP	JP	100% SUBMITTAL

DESIGNED BY: J. PERRONE
DRAWN BY: D. RODRIGUEZ
CHECKED BY: T. GILLUM
APPROVED BY:
SCALE: NOTED
DATE: 4/4/2014

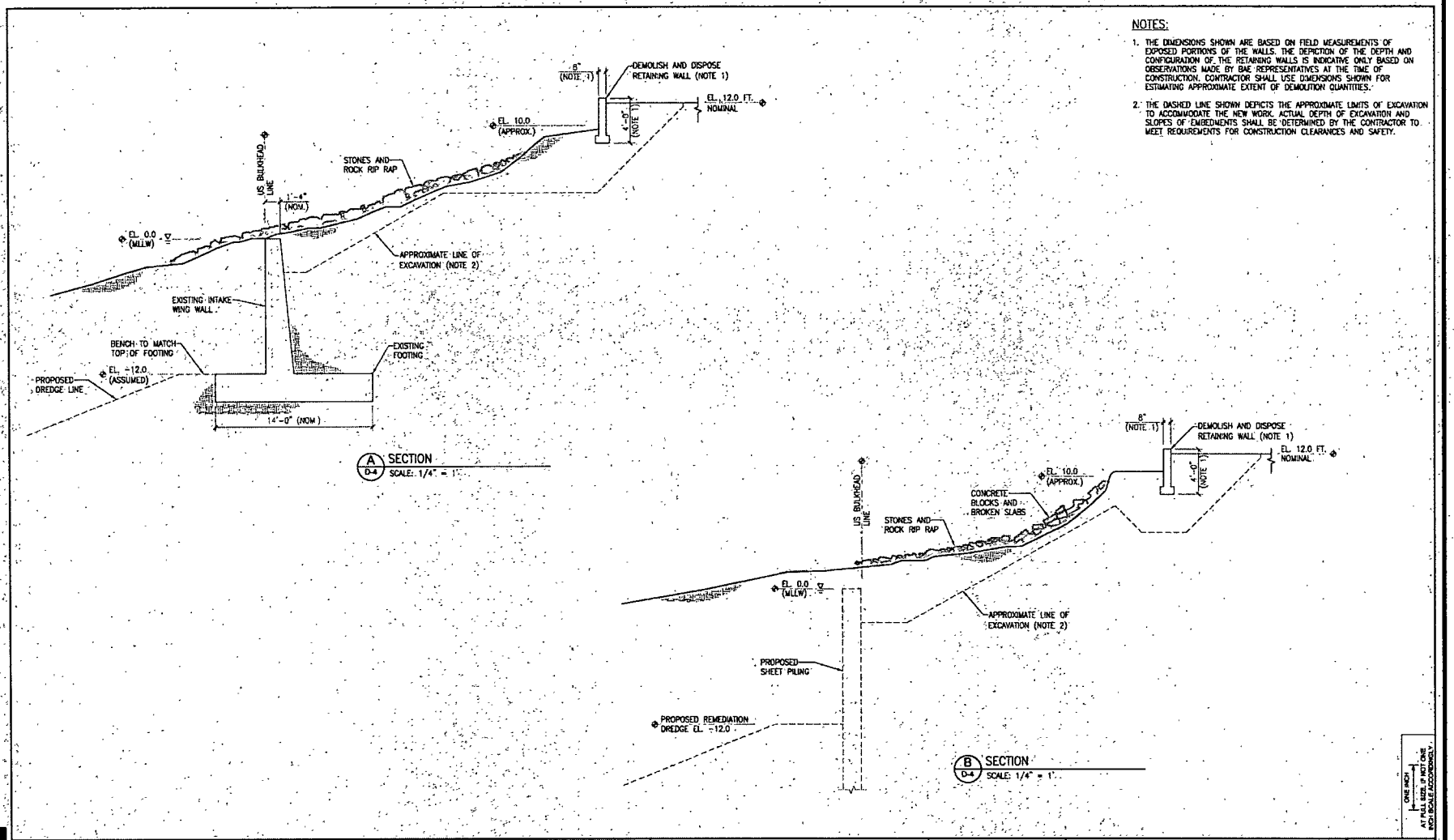
SEDIMENT REMEDIAL ACTION AT NORTH SHIPYARD

SMA UNDERWATER BULKHEAD - DEMOLITION PLAN

D-4

SHEET NO 8 OF 30

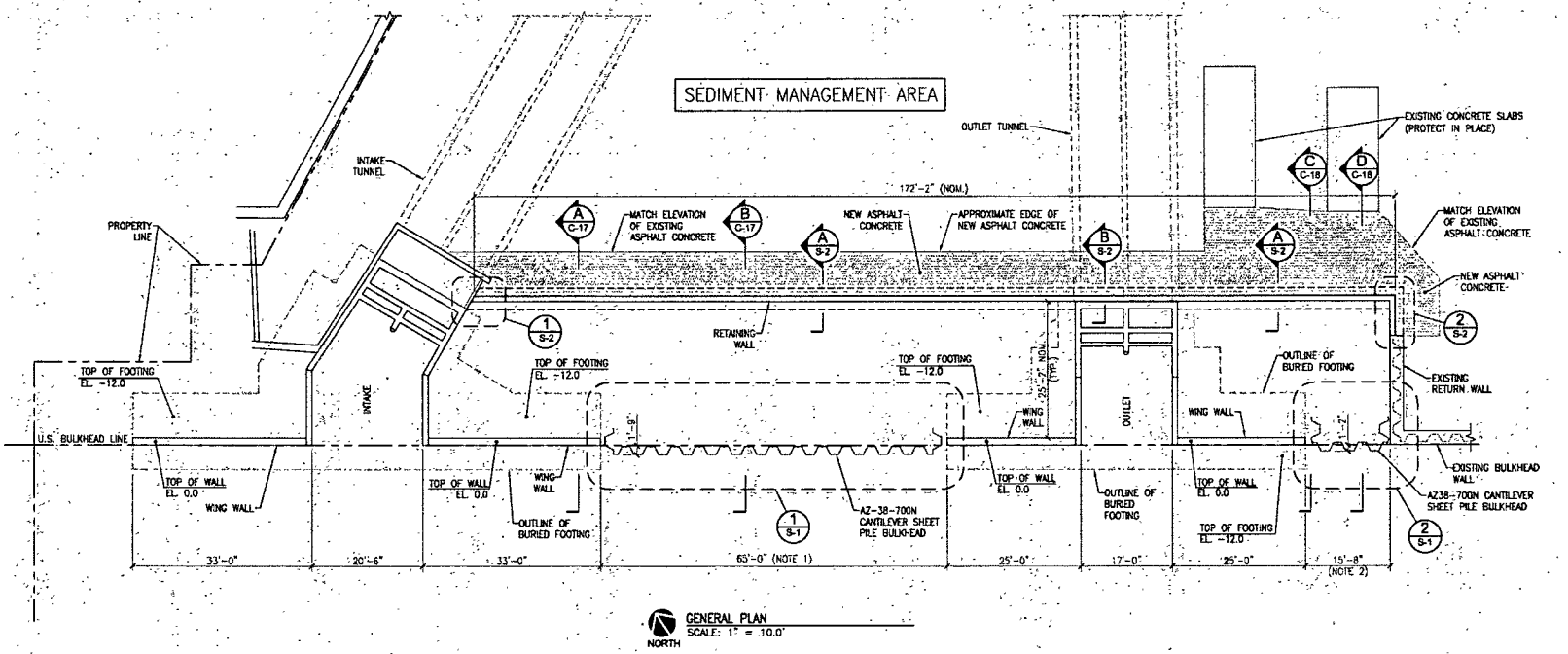
TerraCosta Consulting Group, 3890 Murphy Canyon Road, San Diego, CA 92123 Project: BAE Systems Dry Dock EIR Project No. 2842A Figure 7



6732 PAGE 731

NOTES:

1. THE DISTANCE BETWEEN THE ENDS OF THE EXISTING WING WALLS SHALL BE VERIFIED ON SITE PRIOR TO FINALIZING REQUIRED NUMBER OF SHEET PILES.
2. THE DISTANCE BETWEEN THE END OF THE EXISTING WING WALL AND EXISTING RETURN WALL OF BULKHEAD SHALL BE VERIFIED ON SITE BY CONTRACTOR BEFORE FINALIZING REQUIRED NUMBER OF SHEET PILES.
3. ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING INTAKE AND OUTLET STRUCTURES HAVE BEEN TAKEN FROM ORIGINAL CONSTRUCTION DRAWINGS. DIMENSIONS AND ELEVATIONS OF BURIED STRUCTURES HAVE NOT BEEN VERIFIED.



GENERAL PLAN
SCALE: 1" = 10.0'

NORTH

ONE INCH AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

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TRITON ENGINEERS
Civil, Structural & Waterfront

REVISIONS				
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1	4/7/2014	JP	JP	100% SUBMITTAL

DESIGNED BY: A. PERRONE
DRAWN BY: D. RODRIGUEZ
CHECKED BY: T. OLLUM
APPROVED BY:
SCALE: NOTED
DATE: 4/4/2014

SEDIMENT REMEDIAL ACTION AT NORTH SHIPYARD

SMA UNDERWATER BULKHEAD - PLAN

C-16

SHEET NO. 29 OF 30

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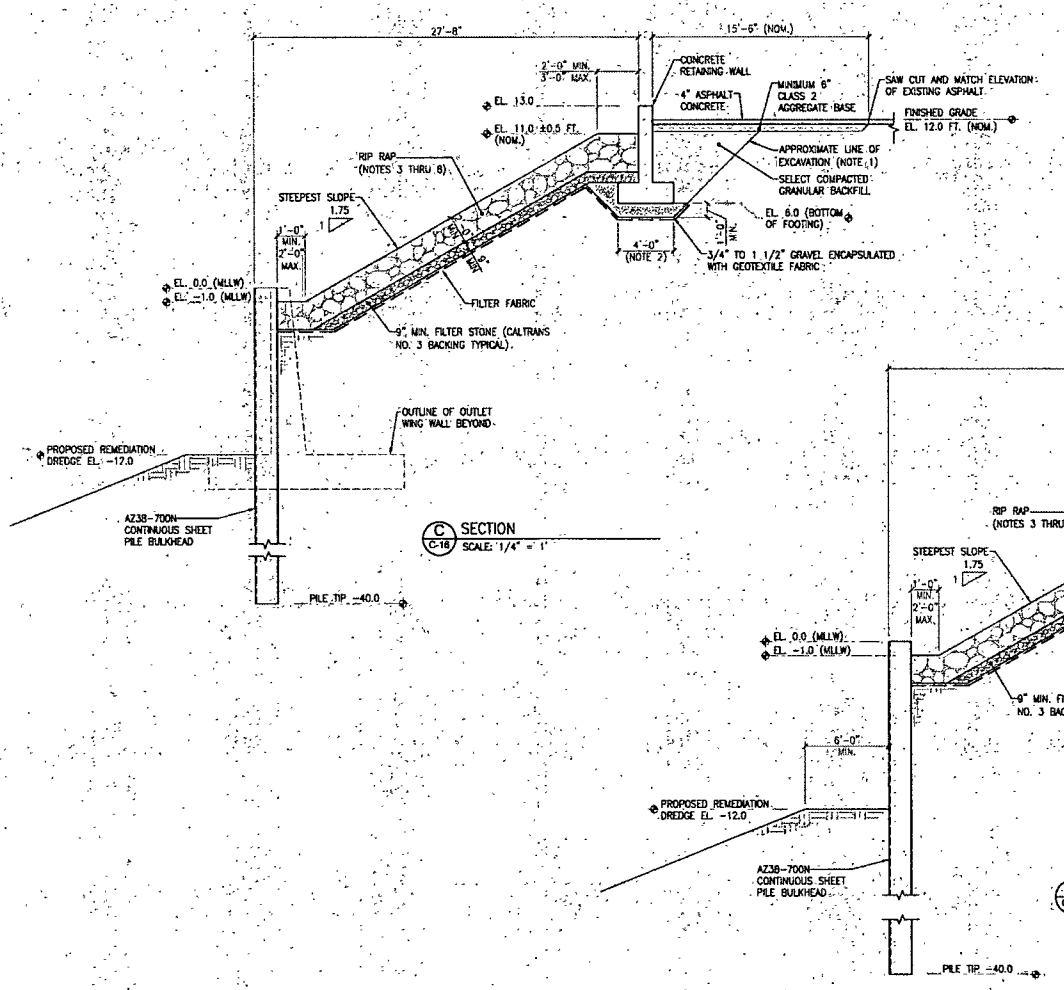

NOTES:

1. THE SIDE SLOPES OF THE TRENCH EXCAVATION FOR CONSTRUCTION OF RETAINING WALL SHALL BE DETERMINED BY CONTRACTOR BASED ON REQUIREMENTS FOR CLEARANCES, SOIL STABILITY, ACCESS OF EQUIPMENT AND SAFETY OF WORKERS.
2. WIDTH OF TRENCH TO BE DETERMINED BY CONTRACTOR.
3. RIP RAP SHALL BE 1/4 TON CLASS CONFORMING TO STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, SECTION 72. FILTER STONE SHALL BE No.3 BACKING CLASS TO THE SAME SPECIFICATION.
4. FILTER FABRIC (GEOTEXTILE) SHALL BE MANUFACTURED FROM POLYESTER, NYLON OR POLYPROPYLENE AND SHALL CONFORM TO THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, SECTION 88.
5. RIP RAP SHALL BE PLACED ON THE PREPARED BASE IN SUCH A MANNER TO PRODUCE A REASONABLY WELL-GRADED MASS OF ROCK WITH MINIMUM PRACTICABLE PERCENTAGE OF VOIDS. THE FINISHED SURFACE SHALL BE CONSTRUCTED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS.
6. CONSTRUCTION OF RIP RAP SLOPE PROTECTION SHALL BE COORDINATED WITH THE TIDE LEVELS. THE CONTRACTOR SHALL SEQUENCE THE WORK TO MINIMIZE THE RISK OF INSTABILITY OF BOTH EXCAVATED SLOPES AND THE FINISHED ROCK.
7. ROCK AND FILTER STONE SHALL BE PLACED BY BUCKET, SKIP, FRONT END LOADER OR OTHER APPROVED MEANS TO THE GENERAL PROFILE SHOWN ON THE CROSS SECTIONS. TOLERANCE FOR PLACING RIP RAP SHALL BE MINUS 6 INCHES AND PLUS 9 INCHES WITH RESPECT TO THE NEAT LINES AND LEVELS AND MEASURED PERPENDICULAR TO THE SLOPE. FINISHED ROCK LEVEL SHALL NOT BE ABOVE THE EXISTING GRADE.
8. A VERIFICATION SURVEY SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THAT THE SLOPE PROTECTION IS PLACED TO ACCEPTABLE LIMITS.

ONE INCH
AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY

TerraCosta Consulting Group

TRITON ENGINEERS
Civil, Structural & Waterfront

REVISIONS

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APPROVED BY:
SCALE: NOTED
DATE: 4/4/2014

SEDIMENT REMEDIAL ACTION AT NORTH SHIPYARD

SMA UNDERWATER BULKHEAD - SECTIONS (SHEET 2)

C-18

SHEET NO 18 OF 30

PAGE 735 of 1792

BAE Systems Pier 1 North Drydock
Hydroacoustic Technical Study
San Diego Bay
San Diego, California

Prepared for

Unified Port
of San Diego

San Diego Unified Port District
Environmental & Land Use Management Department
P.O. Box 120488
San Diego, CA 92112-0488

Prepared by

Tierra Data Inc.
10110 W. Lilac Road
Escondido, CA 92026

January 2015

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List of Acronyms and Abbreviations

°C	Degrees(s) Celsius
µPa	Micropascal
Bay	San Diego Bay
Caltrans	California Department of Transportation
CDFW	California Department of Fish and Wildlife
CLT	California Least Tern
dB	Decibel
District	San Diego Unified Port District
DoN	U.S. Department of the Navy
EFH	Essential Fish Habitat
FMP	Fishery Management Plan
ft	Foot/Feet
GST	Pacific Green Sea Turtle
L_{peak}	Peak Sound Pressure
LSA	LSA-Associates
m	Meter(s)
M&A	Merkel & Associates
m^2	Square Meter(s)
MLLW	Mean Lower Low Water
MMPA	Marine Mammal Protection Act
Navy	U.S. Navy
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
Proposed Project	Proposed BAE Systems Pier 1 North Drydock
RMS	Root Mean Square
SDG&E	San Diego Gas & Electric
SEL	Sound Exposure Level
SPL	Sound Pressure Level
TDI	Tierra Data Inc.
TL	Transmission Loss
TUOP	Tidelands Use and Occupancy Permit
VRG	Vantuna Research Group
ZOI	Zone of Influence

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1.0 INTRODUCTION

Presented here is an analysis of the existing conditions of marine mammals, sea turtles, fish, and California least terns (CLT; *Sterna antillarum browni*) within the project area, and impact analysis of sound pressure levels (SPLs) likely to be generated from the BAE Systems Pier 1 Dry Dock replacement project (Proposed Project). The Proposed Project site includes the existing 9.8-acre (landside) and 16.6-acre (waterside) BAE Systems Leasehold within the San Diego Unified Port District (District). The Proposed Project site also includes an approximately 2.0-acre (landside) and 4.0-acre (waterside) parcel leased by BAE Systems via a five-year Tidelands Use and Occupancy Permit (TUOP).

As part of the Proposed Project, two mooring dolphins and three new ramp wharfs structures will be constructed toward the northern end of the BAE Systems leasehold in San Diego Bay (Bay) (Figure 1). Mooring dolphins provide a fixed structure to secure the proposed dry dock, and are outfitted with two 100-ton double bitts. One of the two mooring dolphins will be retrofitted into the north east end of the existing Pier 1, and the second mooring dolphin will be constructed west of the existing dolphins. Each mooring dolphin structure will be supported by twenty-four 24-inch octagonal precast concrete piles, with an overall mooring dolphin dimension of 26 feet (ft) by 33 ft in size and include a 4-ft thick concrete deck. The new western mooring dolphin is expected to consist of twenty-six 24-inch octagonal concrete piles driven 35 to 45 feet beyond the dredged elevation. The eastern mooring dolphin will be constructed such that it is integrated into the deck of the current Pier 1. This will involve the demolition of two sections of the deck to provide clearance for the installation of approximately twenty 24-inch octagonal concrete piles.

In addition to mooring dolphins, three new ramp wharfs structures will be constructed. The ramp wharf structures will require a total of eighty-four 24-inch octagonal concrete vertical and batter piles to support the two new ramp wharves (36) and intermediary structure (48). The ramp wharfs are independent structures measuring approximately 125 ft × 35 ft at the northern ramp wharf, 134 ft × 76 ft for the intermediate ramp wharf, and the southernmost structure measuring approximately 125 ft ×70 ft with a combined total area of approximately 22,088 square ft. The ramp wharf structures are designed to support heavy vehicle and equipment loads, and are constructed of a reinforced concrete deck supported by precast concrete piles anchored along the shoreline. To accommodate the removal of the cooling tunnels located within the TUOP parcel, the northern ramp wharf and intermediary structure will not be constructed until the cooling tunnels are removed. The elevation of the wharf will be approximately +13 ft Mean Lower Low Water (MLLW). This elevation is 12 inches higher than existing piers at the BAE Systems site and has been designed to account for some rise in sea level.

In-water activities for ramp wharf and mooring dolphin construction are estimated to begin during the Phase V of the Proposed Project schedule, after existing Pier 1 mooring dolphin demolition (Phase II) and dredging and disposal (Phases III and IV). The estimated duration of Phase V is six months, between October 2016 and March 2017. In-water construction activities includes pile

driving, conducted from a barge, which will be moved to various locations within the project area to support in-water construction activities. Construction activities during Phase V will be limited to ramp wharf and mooring dolphin construction.

Tierra Data Inc. (TDI), under contract to LSA-Associates (LSA), has been tasked with reviewing relevant documents related to the Proposed Project and develop a technical report summarizing sensitive marine biological receptors, and potential deleterious effects from in-water construction sound levels. Included within this review is a quantitative impact analysis of impacts from pile driving activities associated with the Proposed Project on the marine biological resources adjacent to the construction area. This report further presents a comprehensive analysis of the existing conditions of marine mammals, green sea turtles, fish, and California Least Tern (CLT), and project specific SPLs likely to be generated from proposed pile driving activities.

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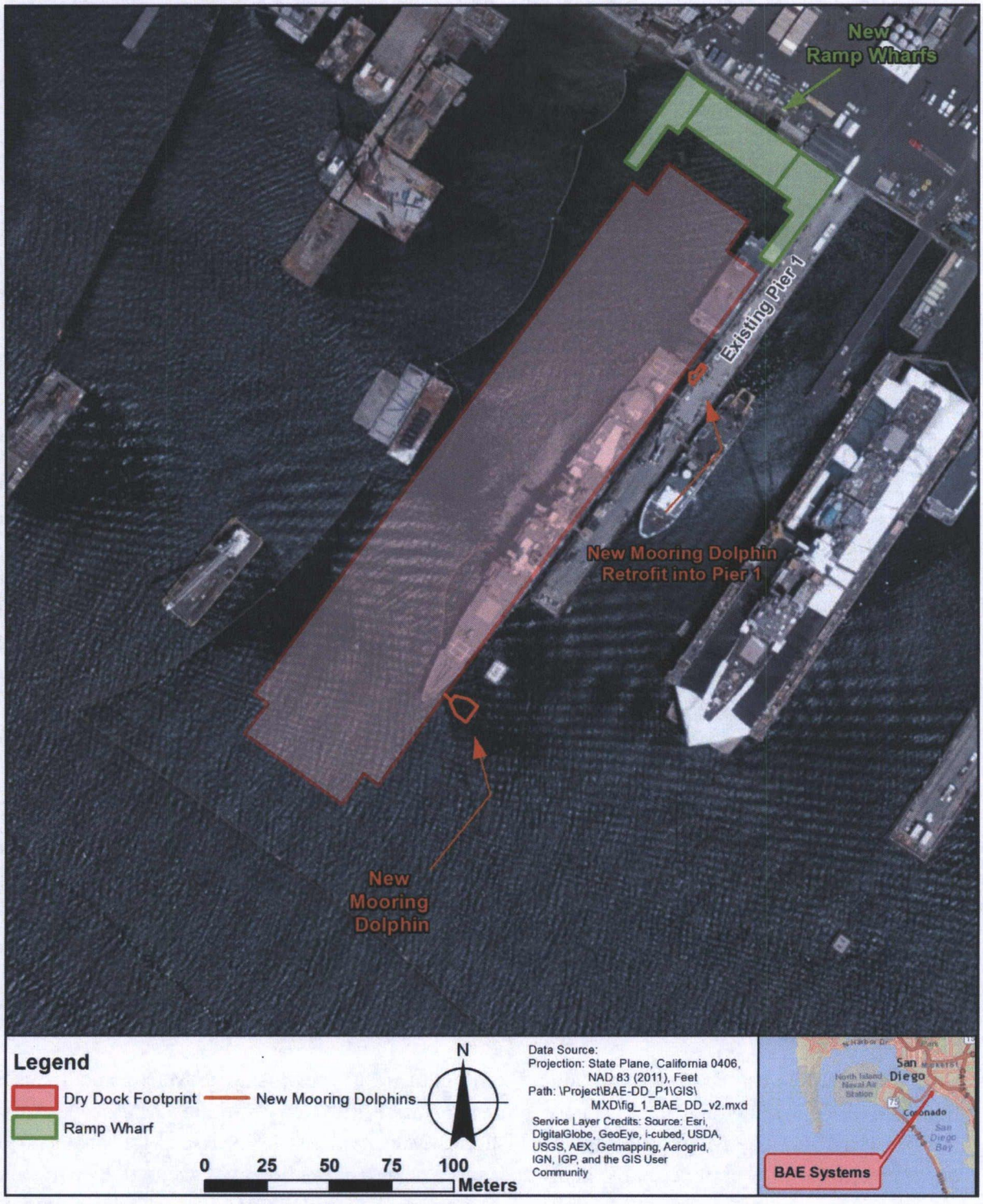

Figure 1. BAE Systems Pier 1 North Drydock Project

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2.0 EXISTING CONDITIONS

The Existing Conditions section of this technical study describes species that may be directly or indirectly affected by sounds levels produced during construction. Information contained within this document is relative to those species that are listed and/or managed, and may experience some level of disturbance from in-water pile driving activities. In this way, the assessment can focus on special status indicators as a surrogate for populations as a whole. The sensitive receptors examined for the purposes of this technical study were the Eastern Pacific green sea turtle (GST; *Chelonia mydas*), fish species managed under two Fishery Management Plans (FMPs) (the Coastal Pelagic Species FMP and Pacific Coast Groundfish FMP) that may occur within the project impact zone, CLT, and marine mammals. The Existing Conditions section presents the species regional presence, population status, and natural history. The technical study presented here supplements the existing biological conditions review performed by Merkel & Associates (M&A).

2.1 Eastern Pacific Green Sea Turtle

Until recently, individual GST had been observed in San Diego Bay in the cooling channel of the former San Diego Gas and Electric (SDG&E) South Bay Power Plant in Chula Vista, where waters were artificially heated (to temperatures of >15 degrees Celsius [°C]) as a result of plant activities. The population of GST in the Bay historically used this warm water outflow for thermo-regulation, particularly during winter months when Bay-wide temperatures were below optimal temperatures (<15°C) for GSTs (Dutton and McDonald 1990; McDonald et al. 1994; Moon et al. 1997; Seminoff 2000; Benson and Dutton 2012; Eguchi et al. 2012). However, the South Bay Power Plant has been demolished, and thus the artificially heated water has stopped.

The possible response of GSTs to the changing thermal environment in the Bay may include: (1) inactivity during winter months when water temperatures drop to <15°C; (2) higher concentrations of GSTs in the warmest areas of the Bay (southern extreme) during late autumn, winter, and early spring; or (3) decrease in somatic (body) growth rates (Eguchi et al. 2012). Previous satellite and hydrophone tracking of GSTs in the Bay have reported that GSTs are most commonly observed in the south and south central Bay. Eelgrass communities, which are the primary foraging areas for GSTs, are similarly most abundant in the south and south central Bay and generally occur in waters less than 6 meters (m) (20 ft) MLLW.

2.2 Fish

Fish habitat in the Bay are managed under the Magnuson-Stevens Fisheries Management Act by the National Oceanic and Atmospheric Administration (NOAA)/National Marine Fisheries Service (NMFS). The Magnuson-Stevens Fisheries Management Act provides for conservation and management of commercially harvested species and protection of Essential Fish Habitat (EFH). There are several species of concern that may occur within the Bay that are managed under two FMPs: the Coastal Pelagic Species FMP and Pacific Coast Groundfish FMP. The species include the northern anchovy (*Engraulis mordax*), Pacific sardine (*Sardinops sagax*), English sole (*Parophrys vetulus*), Pacific mackerel (*Scomber japonicas*), jack mackerel (*Trachurus*

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symmetricus), California scorpion fish (*Scorpaena guttata*), leopard shark (*Triakis semifasciata*), soupfin shark (*Galeorhinus galeus*), spiny dogfish (*Squalus acanthias*), cabezon (*Scorpaenichthys marmoratus*), and grass rockfish (*Sebastes rastrelliger*).

All eleven of the described fish species managed under the Coastal Pelagic Species FMP and Pacific Coast Groundfish FMP have populations that vary seasonally in the Bay. Bay-wide surveys performed in April and July of 2008 and 2012 for the Port of San Diego found that all eleven species were rare or absent in central San Diego Bay (Vantuna Research Group [VRG] 2009, 2012). This is consistent with results from previous fish surveys performed from 1999 to 2006 (Allen 1999; Allen et al. 2002; Pondella et al. 2006), which suggested similarly low abundances of these managed species. Based on previous presence data, there is a low probability of the species of concern occurring within the project area during the proposed in-water construction activities.

2.2.1 Northern Anchovy (*Engraulis mordax*)

San Diego Bay serves as a nursery for northern anchovy. Spawning occurs outside the Bay, and pelagic eggs and larvae enter the Bay during tidal exchange with nearshore ocean waters. Northern anchovy young-of-year recruit to the mid-water column in nearshore habitats, with numbers peaking in late spring and early summer (Allen et al. 2002; Allen 1999). During this time, northern anchovy abundance fluctuates and is one of the dominant fish species in the north Bay. High abundances of northern anchovy are nearly exclusively confined to summer months, based on five years of quarterly surveys conducted throughout the Bay from 1994 to 1999 (Allen et al. 2002). In 2012, 2,528 metric tons of northern anchovies were landed in California with only 196.5 metric tons landed in southern California during the summer months (California Department of Fish and Wildlife [CDFW] 2013). While the species is seasonally abundant in southern California waters, recent Bay-wide surveys (VRG 2009, 2012) found that northern anchovy accounted for less than 0.06% of the total abundance of fish collected during the VRG 2008 surveys and none during the 2012 surveys. A total of ten individuals were collected during two seasonal survey efforts with all ten individuals collected in the intertidal zone in 2008 (VRG 2009), suggesting population abundance may vary significantly over time.

2.2.2 Pacific Sardine (*Sardinops sagax*)

In southern California, Pacific sardines have a seasonal component with abundances highest during the summer and early fall, and can be near absent during the winter. Of the nearly 14,853 Pacific sardines collected during quarterly surveys conducted in the Bay from 1994 to 1999, 14,535 (98%) were collected during the July and October survey efforts. The species is seasonally abundant in southern California waters, and recent Bay-wide surveys (VRG 2009, 2012) found that Pacific sardines accounted for less than 0.01% of the total abundance of fish collected during the VRG 2008 and 2012 summer surveys. A total of two individuals were collected during two seasonal survey events in 2008 and 2012 (VRG 2009, 2012). Pacific sardines accounted for less than 3.0% of the total fish abundance in the Bay, based on five years of quarterly surveys conducted throughout the Bay from 1994 to 1999 (Allen et al. 2002).

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2.2.3 Pacific Mackerel (*Scomber japonicas*)

Similar to other coastal pelagic species, Pacific mackerel display a seasonal component with abundances greatest during the summer and early fall and near absent during the winter. A total of 128 Pacific mackerel were collected during five years of quarterly surveys from 1994 to 1998, during only summer and fall survey months, and no individuals were collected during either of the 2008 survey events (Allen et al. 2002; VRG 2009). Pacific mackerel accounted for less than 0.01% of the total abundance of fish collected during the VRG 2012 surveys. Only one individual was collected during two seasonal survey events in 2012 (VRG 2012). Pacific mackerel accounted for less than 0.03 of total fish abundance in the Bay, based on five years of quarterly surveys conducted throughout the Bay from 1994 to 1999 (Allen et al. 2002).

2.2.4 Jack Mackerel (*Trachurus symmetricus*)

No jack mackerel were collected in any of the Bay-wide fish surveys conducted in 1994, 1999, 2003, 2008, or 2012 (Allen 1999; Allen et al. 2002; Pondella et al. 2006; VRG 2009, 2012).

2.2.5 California Scorpion Fish (*Scorpaena guttata*)

California scorpion fish accounted for less than 0.01% of the total abundance of fish collected during the VRG 2012 survey. A total of eight individuals were collected during two seasonal survey events in 2012 (VRG 2012). Previously, only three California scorpion fish were collected in the Bay-wide fish surveys conducted in 1994, 1999, 2003, or 2008 (Allen 1999; Allen et al. 2002; Pondella et al. 2006; VRG 2009).

2.2.6 English Sole (*Parophrys vetulus*)

No English sole were collected in the Bay-wide fish surveys conducted in 1994, 1999, 2003, 2008, or 2012 (Allen 1999; Allen et al. 2002; Pondella et al. 2006; VRG 2009, 2012).

2.2.7 Leopard Shark *(Triakis semifasciata)*

Leopard sharks are most commonly found in shallow California bays and estuaries and along southern California beaches rocks near rocky reefs and kelp beds. Leopard sharks will spawn and pup in the shallow waters of bay, estuaries, or mudflats (MCS 2013). A large grouping of this species is known to occur during summer months at La Jolla Shores Beach, north of San Diego Bay. Leopard sharks are possibly more common in San Diego Bay waters than capture data would suggest, and aggregations of adult leopard sharks have been in the Bay (Merkel, pers. obs.).

2.2.8 Soupfin Shark (*Galeorhinus galeus*)

Soupfin sharks are one of five species of houndsharks found in California waters. Generally, the soupfin can be found in shallow bays and near the bottom, but soupfin have been seen in waters as deep as 1,500 ft. South of Point Conception is important nursery ground, where females are located inshore, in waters less than 45 ft, while males are offshore in waters greater than 65 ft deep. Soupfin sharks may congregate by size and sex, and can migrate long distances (CDFG 2001).

2.2.9 Spiny Dogfish (*Squalus acanthias*)

Spiny dogfish occur in a variety of temperate and subarctic waters in both the Atlantic and Pacific Oceans. In the Pacific Ocean they are found from central Baja California to Alaska. This species is common in nearshore waters along most of the California coast. The spiny dogfish feeds upon smaller fishes, such as sardines, anchovies, smelts, and even small spiny dogfish. Adults range from 2 to 4 ft long, and generally, females are larger than males (CDFW 2013). Other common names include dog shark, grayfish, Pacific grayfish, spinarola, and California dogfish.

2.2.10 Cabezon (*Scorpaenichthys marmoratus*)

Cabezon occur from Baja California to Alaska. Cabezon are generally found on the bottom, around rocky outcrops, reefs, and kelp beds in water less than 120 ft deep (CDFW 2013). Male Cabezon mature first; however, females grow faster and attain larger sizes than do males. Adults tend to congregate at nesting sites, spawning from November through March, peaking in January. Young cabezon enter the tide pools and inshore areas during the spring when they are about 1.5 inches long when they lose their silvery color and take on the pattern characteristic of adults.

2.2.11 Grass Rockfish (*Sebastes rastrelliger*)

Grass rockfish occur from Oregon to central Baja California, although they are most common from northern California south. Grass rockfish are a shallow water species, found from the intertidal to 20 ft, but they have also been found to depths of 150 ft (M&A 2014). As juveniles they are pelagic, but as they mature and become adults, they associate with kelp beds and reefs.

2.3 California Least Tern

CLT existing conditions are described in detail in the biological resources report prepared by M&A, and provides sufficient background data to support the inclusion of CLT as a potential receiver of sound, including impact and mitigation analysis, when augmented with habitat and Existing Conditions for fish species. CLT nesting grounds are known to occur within 1.8 miles of the Proposed Project area, but not within the Proposed Project area. Therefore, analysis for impacts to CLTs are included for indirect effects analysis only during the ramp wharf and mooring dolphin construction (Phase V) activities. Given the absence of CLT nesting grounds within the Proposed Project area, the primary concern for indirect impacts to CLTs during construction is the relocation of available resources (i.e., small fish) during pile driving activities. During the nesting season, CLTs can feed almost exclusively on small marine fish (e.g., smelt and anchovies) in the surface waters of the Bay, river mouths, and nearshore ocean waters adjacent to Silver Strand (U.S. Department of the Navy [DoN] and Port 2013).

2.4 Marine Mammals

There are four marine mammal species with the potential to occur in San Diego Bay. Year-round species include the California sea lion (*Zalophus californianus*), Pacific harbor seal (*Phoca vitulina richardii*), and California coastal bottlenose dolphin (*Tursiops truncatus*) (U.S. Pacific Fleet 2009-2012; DoN 2012, 2013a, 2013b). The only migratory species with the potential to occur in San Diego

Bay is the eastern North Pacific gray whale (*Eschrichtius robustus*) (DoN 2012, 2013a, 2013b). All four species are protected under the Marine Mammal Protection Act (MMPA); however, none are listed under the Endangered Species Act. From February 2012 to March 2013, TDI conducted 26 marine mammal surveys in north San Diego Bay for the Navy (DoN 2012, 2013a, 2013b). Although the surveys were not designed to specifically document the presence of marine mammals in the Proposed Project area, surveyed areas covered the entire north Bay and portions of the outer and central Bay to document spatial distributions. Results showed that marine mammals are not randomly distributed and are concentrated in the north Bay, most likely entering the Bay to take advantage of feeding opportunities and, in the case of pinnipeds, utilizing easily accessible haul out sites (DoN 2012, 2013a, 2013b).

2.4.1 California Sea Lion (*Zalophus californianus*)

California sea lions breed from May through July on islands from the Gulf of California in Mexico to the Channel Islands in southern California (Bonnell and Dailey 1993). Most of the United States' stock (more than 95%) breed and give birth in the Channel Islands on San Miguel, San Nicolas, and Santa Barbara Islands (Lowry et al. 1991). A small number of pups (between 12 and 92 pups; Lowry and Maravilla-Chavez 2005) are born at the Coronado Islands annually, which is the closest rookery to San Diego Bay and is located 15 miles south in Mexican waters.

After the breeding season, the United States' stock of California sea lions migrate northward from the Channel Islands to forage during the winter along the coast of central and northern California, Oregon, Washington, and British Columbia. During this time, other animals, predominately adult males, from Mexican rookeries migrate into the Southern California Bight (Bonnell et al. 1981, 1983), and males from western Baja California rookeries may spend most of the year in the United States (Carretta et al. 2003).

California sea lion abundance in San Diego Bay peaks during the late summer and fall and decreases to its lowest numbers during the winter (DoN 2013b). The California sea lion is the most commonly sighted marine mammal in San Diego Bay (DoN 2013b). Ninety-four percent of all marine mammal sightings during bimonthly surveys conducted from February 2012 to March 2013 were of California sea lions (DoN 2012, 2013a, 2013b). Individuals are regularly observed hauled out on piers and buoys in groups ranging from a single individual to over 100 animals. Additionally, 95% of all California sea lion sightings from surveys were associated with the Everingham Brothers bait barges, which is near the mouth of the Bay (DoN 2013b).

2.4.2 Pacific Harbor Seal (*Phoca vitulina*)

The nearest harbor seal rookery to San Diego Bay is La Jolla, California, where females give birth from January through April and nurse into May. An estimated 40 pups are born to the La Jolla population annually (Hanan & Associates 2011). Pacific harbor seal abundance at the main rookery in La Jolla peaks during the breeding season and decreases to its lowest numbers from October to November, when adults are foraging away from haul out sites (Yochem and Stewart 1998; Hanan & Associates 2004). In San Diego Bay, Pacific harbor seals haul out year-round in

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small groups along the shore to the east of Ballast Point, immediately outside of the Bay. Harbor seals are likely using this haul out area to rest between foraging trips in the kelp forest off Point Loma. Harbor seals are reluctant to haul out in the presence of humans and are rarely seen inside the Bay (DoN 2012, 2013a, 2013b). The Pacific harbor seal made up three percent of all sightings from surveys conducted in the northern portions of the Bay from February 2012 to March 2013. During the 2012 to 2013 survey time period Pacific harbor seal sightings were exclusively sighted outside of the Bay on the shore to the east of Ballast Point (DoN 2013b).

2.4.3 California Coastal Bottlenose Dolphin (*Tursiops truncatus*)

California coastal bottlenose dolphins (bottlenose dolphins) move along the California coast within about 1 kilometer of shore (Hansen 1990; Carretta et al. 1998; Defran and Weller 1999). In southern California, animals are found within 500 m of the shoreline 99% of the time (Hanson and Defran 1993). Bottlenose dolphins exhibit low site-fidelity (Defran et al. 1999; Feinholz 1996) and display movements in search of preferred, although patchy concentrations of, nearshore prey (Defran et al. 1999; Bearzi et al. 2009). Individuals that enter San Diego Bay are most likely in search of their preferred prey species, surfperch (Family Embiotocidae) and croaker (Family Sciaenidae), which are non-migratory year-round coastal species (Defran et al. 1999; Allen et al. 2006).

Bottlenose dolphins are present in the Southern California Bight year-round (Bonnell and Dailey 1993) with overall densities low during January and high in May. They are found in the Bay year-round, although the species' abundance is relatively low year-round (DoN 2012, 2013a, 2013b), when compared to the overall population in southern California waters. The bottlenose dolphin made up 3% of all sightings from surveys conducted in the northern portions of the Bay from February 2012 to March 2013. During the 2012 to 2013 survey time period, 97% of bottlenose dolphin sightings were north of Harbor Island (DoN 2013a).

2.4.4 Eastern North Pacific Gray Whale

The eastern North Pacific gray whale (gray whale) migrates south along the coast of North America from December through February. The northbound migration generally begins in mid-February and continues through May with a peak in March (Leatherwood 1974; Bonnell and Dailey 1993). Cows and newborn calves migrate northward primarily between March and June (Herzing and Mate 1984; Poole 1984). Gray whales are generally absent from southern California waters from August through November. While gray whales may occasionally be found within 1 kilometer of shore during migration, they are generally found farther offshore. Therefore, the gray whale is considered extremely rare to San Diego Bay.

3.0 IMPACT ASSESSMENT

The Proposed Project would include construction activities (e.g., pile driving) that would generate airborne and underwater sound levels potentially harmful to biological resources. Hydroacoustic impact analysis aims to identify portions of the Proposed Project that could have substantially adverse effects, direct or indirect, on marine species identified as candidates, sensitive, or actively maintain protected species-status by the NMFS and CDFW. Thresholds for significant effects are described as Level A and Level B Harassment. Amendments to the MMPA in 1994 define Level A Harassment as any act of pursuit, torment, or annoyance, which has the potential to injure a marine mammal or marine mammal stock in the wild. Level B Harassment is defined as having the potential to disturb a marine mammal or marine mammal stock in the wild by causing disruption of behavioral patterns, including, but not limited to, migration, breathing, nursing, breeding, feeding, or sheltering but which does not have the potential to injure a marine mammal or marine mammal stock in the wild (NOAA 2006).

The technical guidance for hydroacoustic impact analysis presented here was prepared in accordance with the California Department of Transportation (Caltrans) *Technical Guidance for Assessment and Mitigation of Hydroacoustic Effects of Pile Driving on Fish* published in 2009 and updated in 2012 (Caltrans 2012), and coupled with NOAA/NMFS hydroacoustic Level A and Level B Harassment criteria for marine mammals, fish, and GSTs. This approach uses a transmission loss equation to calculate sound attenuation from source (i.e., pile driving) to Bay wide ambient levels. Zones of Influence (ZOI) can then be calculated based on NMFS criteria for harassment, sound transmission loss, and receiver distance from source.

3.1 Underwater Sound Levels and Propagation

Sound is defined as small disturbances in a medium through which energy is transferred away from a source by progressive fluctuations of pressure (or sound waves) (Caltrans 2012). SPLs are most often expressed in decibels (dB) relative to 1 micro Pascal (1 µPa). Underwater sound levels received at a given distance from an acoustic source, such as pile driving, are a function of source level and transmission loss (TL). Underwater TL is the decrease in acoustic intensity as an acoustic pressure wave propagates out from a source. The TL may vary with frequency, temperature, bottom composition, and various other confounding factors.

The general formula for TL is:

$$TL=B^* \log 10 (R) + C^*R$$

Where:

B = logarithmic loss predominantly by spreading;

C = linear loss through scattering and absorption;

R = ratio of the receiver distance (R_1) to source reference distance (R_2).

This equation assumes spherical spreading from a source in a non-confined environment. NOAA/NMFS applies this equation using some general assumptions where the linear loss (C) is assumed equal to zero, and 'effective spreading ' or 'practical spreading' is assumed (B= 15). This results in a simplified equation for TL of:

$$TL = 15 * \log 10 (R)$$

The attenuation of noise through water is used to predict the area that will be exposed to direct and indirect effects, referred to as the Project Action Area. Additional sound metrics commonly used in evaluating hydroacoustic impacts to fish and wildlife include:

- Peak sound pressure (L_{peak})
- Root mean square (rms)
- Sound exposure level (SEL)

Peak sound pressure (L_{peak}), rms, and SEL are generally accepted metrics used to measure the effective ZOI of a specific sound energy pulse or series of pulses. L_{peak} is the single strike maximum SPL, and is used to assess the potential for physical injury to receptor species from single strike events. SEL is most commonly defined as the sound exposure level, or the constant sound level in one second, which has the same amount of acoustic energy as the original time-varying sound (i.e., the total energy of an event). SEL is calculated by summing the cumulative pressure of a strike squared over the time of the event (Caltrans 2012), and is used as an energy metric, for calculating $SEL_{cumulative}$ which estimates total exposure from repeated events. RMS is the square root of the sum of the squares of the pressure contained within a defined period of time, which contains 90 percent of the sound energy.

3.2 Ambient Sound

To begin the assessment of impacts from impact pile driving, the ambient sound levels in the Bay need to be defined. To apply a representative ambient surrogate for the Proposed Project, ambient levels within a similar embayment was used. There are few embayments in the World with as diverse usage types as San Diego Bay, the combination of military presence, commercial and recreational users, goods and materials shipping, and cruise ships. From a hydroacoustic perspective, each one of the usage types (e.g., commercial, military, or recreational) contributes to ambient sound levels in the Bay. Recent unpublished data collected by the Navy indicates ambient sound levels in the Bay can vary significantly depending on vessel traffic and monitoring location in the Bay, with general rms values have been recorded between 120 and 130 dB rms. Caltrans has provided data for San Francisco Bay and Outer Oakland Harbor, indicating ambient values between 120 and 155 dB $_{peak}$, and 133 dB rms (Strategic Environmental Consulting, Inc. 2004, as cited by Caltrans 2012) For the purposes of this assessment, the generally accepted ambient sound level published by Caltrans (133 dB rms) will be used.

3.3 Pile Driving Sound Profiles

As described previously, the constructing of two new mooring dolphins will require driving forty-six 24-inch diagonal piles for mooring and deck support. The three ramp wharfs will require a total of eighty-four 24-inch octagonal concrete vertical and batter pile supports. Piles will be driven using a diesel impact hammer and driven unattended (i.e., absent of sound attenuation devices). Piles will be driven to -90 ft MLLW for the integrated (east) dolphin, -93 ft MLLW for the west dolphin, and the ramp wharfs between -40 and -80 ft MLLW. The amount of piles that can be driven in a day is subject several limiting factors, including water depth, substrate type, equipment, and environmental conditions encountered when driving piles. Due to these confounding factors, piles driven per day can range from one to ten. For the purposes of this assessment, the Caltrans provided estimate of five piles driven per day will be used for impact assessment purposes (Caltrans 2012). At an estimate of five piles per day, there would be a total of 26 pile driving days necessary to support ramp wharf and new mooring dolphin construction.

In order to perform representative impact analysis, the mooring dolphin located closest to the Bay navigational channel was selected as the point source for sound. Simply, models and assumptions for practical spreading and transmission loss of sounds in water are based on assumptions that include equal spreading (i.e., lack of sound blockage, refraction, or reflection from fixed structures). The western mooring dolphin is the most unobstructed location for pile driving, and therefore would be most representative and appropriate given the accepted assumptions made for this impact analysis of this type. Representative Peak pressures, SEL, and rms values were selected from a 24-inch octagonal concrete pile driving programs compiled in Appendix I of the Caltrans Technical guidance for the development of impact areas. Of the programs using 24-inch concrete octagonal piles and driven using a diesel impact hammer, Berth 22 in Oakland harbor had the highest reported sound levels, and therefore these biologically conservative levels (i.e., highest sound levels) were used for assessment purposes. The representative project Peak values used for analysis were 188 dB re:1Pa, and rms and SEL values of 176 dB and 166 dB re:1Pa^{2}sec respectively.

Peak, rms, and SEL representative values, ambient and the TL equation were used to develop and define the ZOI for GSTs, fish, and marine mammals. For estimating cumulative impacts from prolonged exposure to biological resources, $SEL_{cumulative}$ was estimated to be the single strike SEL logarithmically increasing the $SEL_{cumulative}$ by the number of strikes per day. The resultant $SEL_{cumulative}$ value is largely dependent on the number of strikes per day. The logarithmic nature of accumulated exposure results is only a marginal increase to the whole from an additional strike after the initial strike. For example, one pile driven with 580 strikes in one day is equivalent to a 193 dB $SEL_{cumulative}$ at 10 m. Five piles in a day results in a $SEL_{cumulative}$ value of 200 dB, despite having almost 2,000 more strikes overall. For the purposes of this estimation, five piles was selected to represent the total number of piles in a day, and therefore total number of strikes over the same time period used to estimate accumulated sound exposure ($SEL_{cumulative}$) was 2,900 strikes per day. This number is biologically conservative, and represents a maximum number of strikes and piles that could be driven in a day. For species of concern within the Proposed Project area, variables used for first-order estimation of impacts are presented in Table 1.

Table 1. Acoustic Inputs used for ZOI distance calculations.

Parameter	Acoustic Metric			
	Peak	SEL	RMS	Ambient Noise Level
Representative single strike level (dB)	188	166	176	133
Distance (m)	10	10	10	
Estimated number of strike per pile	580	Estimated Piles driven in a day		1-5
Total Pile Strikes per day	2900	Cumulative SEL ($SEL_{cumulative}$) at 10 m		200

After applying the surrogate source levels, estimating the pile strikes per day, and calculating $SEL_{Cumulative}$, TL was calculated, and the distances to underwater sound criteria thresholds for GSTs, fish, and marine mammals for the Proposed Project were developed (Table 2). Physical injury and Level B disturbance (behavioral) were examined for each species group, given an equal number of pile strikes in a day, and assuming that each strike has a constant sound level. Using the distances for the calculated sound criteria thresholds, a ZOI for each of the sound criteria was determined for a biological resource. Figure 2 presents ZOIs for fish species assuming Peak injury and Cumulative measures as prescribed by NOAA/NMFS. Figure 3 presents marine mammal ZOIs using the currently accepted behavioral disturbance thresholds using surrogate rms values and estimates of TL. Injury thresholds for marine mammals are not expected as a result of driving 24-in concrete piles, and are therefore omitted.

Table 2. Calculations of the distance of R1 for specific underwater sound disturbance criteria (sound levels) of sensitive marine resources from source (10 m).

Sound Level Criteria	Type of Impact	Sensitive Resource	Distance of Sound Level Criteria (m) [1]
RMS (dB re:1µPa)			
190	Injury	Cetacean Marine Mammals and GSTs	-*
180	Injury	Pinniped Marine Mammals	-*
160	Behavioral	Marine Mammals and GST	116
150	Behavioral	All Fish Sizes	541
Peak (dB re:1µPa^2*sec)			
206	Injury	All Fish Sizes	-*
Cumulative SEL (dB re:1µPa^2*sec)			
187	Injury	Fish ≥ 2 grams	81
183	Injury	Fish ≤ 2-grams	117

[1] estimating 176 dB rms source level, 166 dB SEL, and 188 dB peak. Distance Calculated assuming F=15 and equal spreading/loss. Calculation does not take into account obstructions, changes in substrate type and/or water depth.

*Note: rms, peak, or SEL SPLs at 10 m (33 ft) lower than injury threshold

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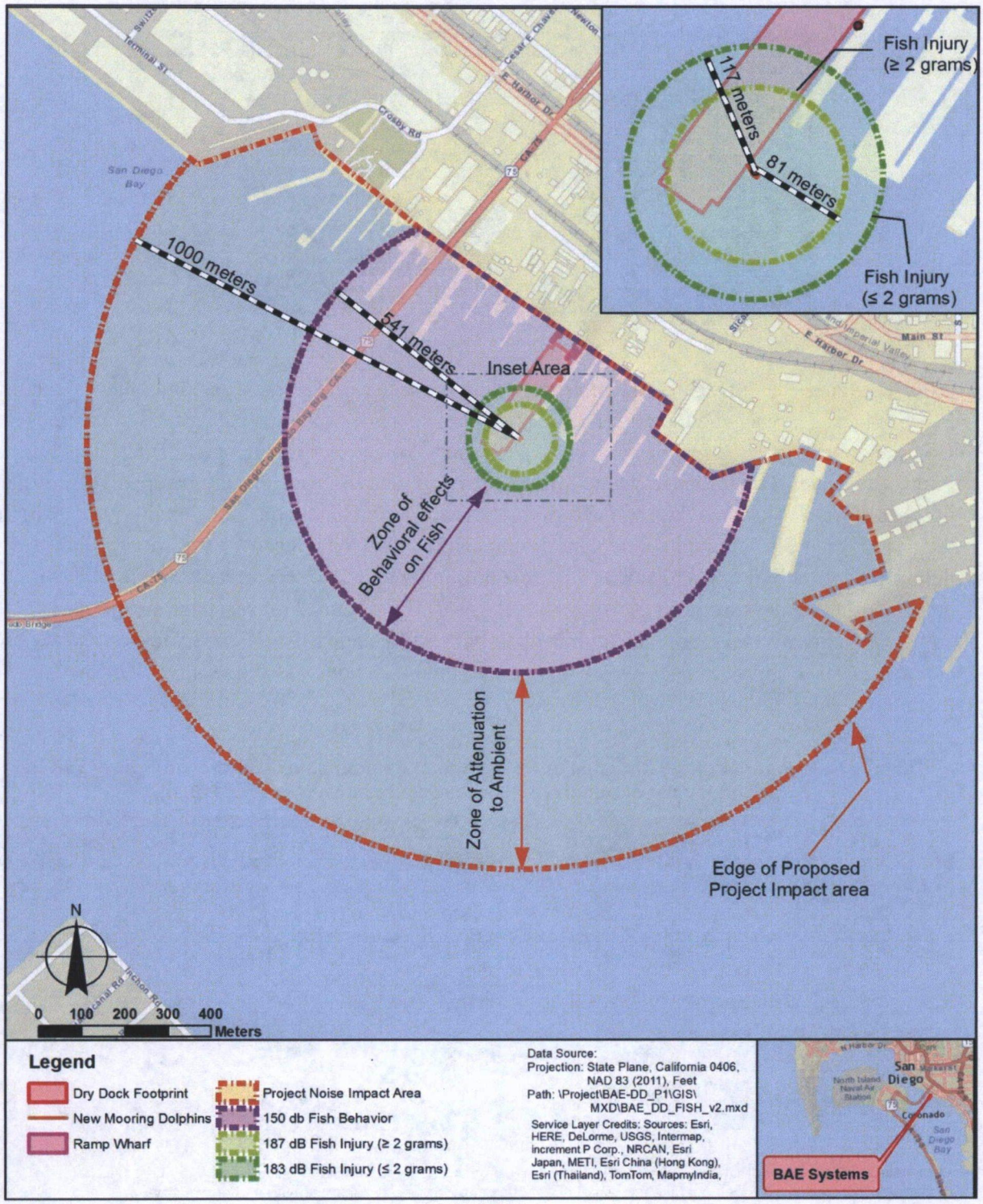

Figure 2. Estimated ZOI for cumulative hydroacoustic impacts to fish species.

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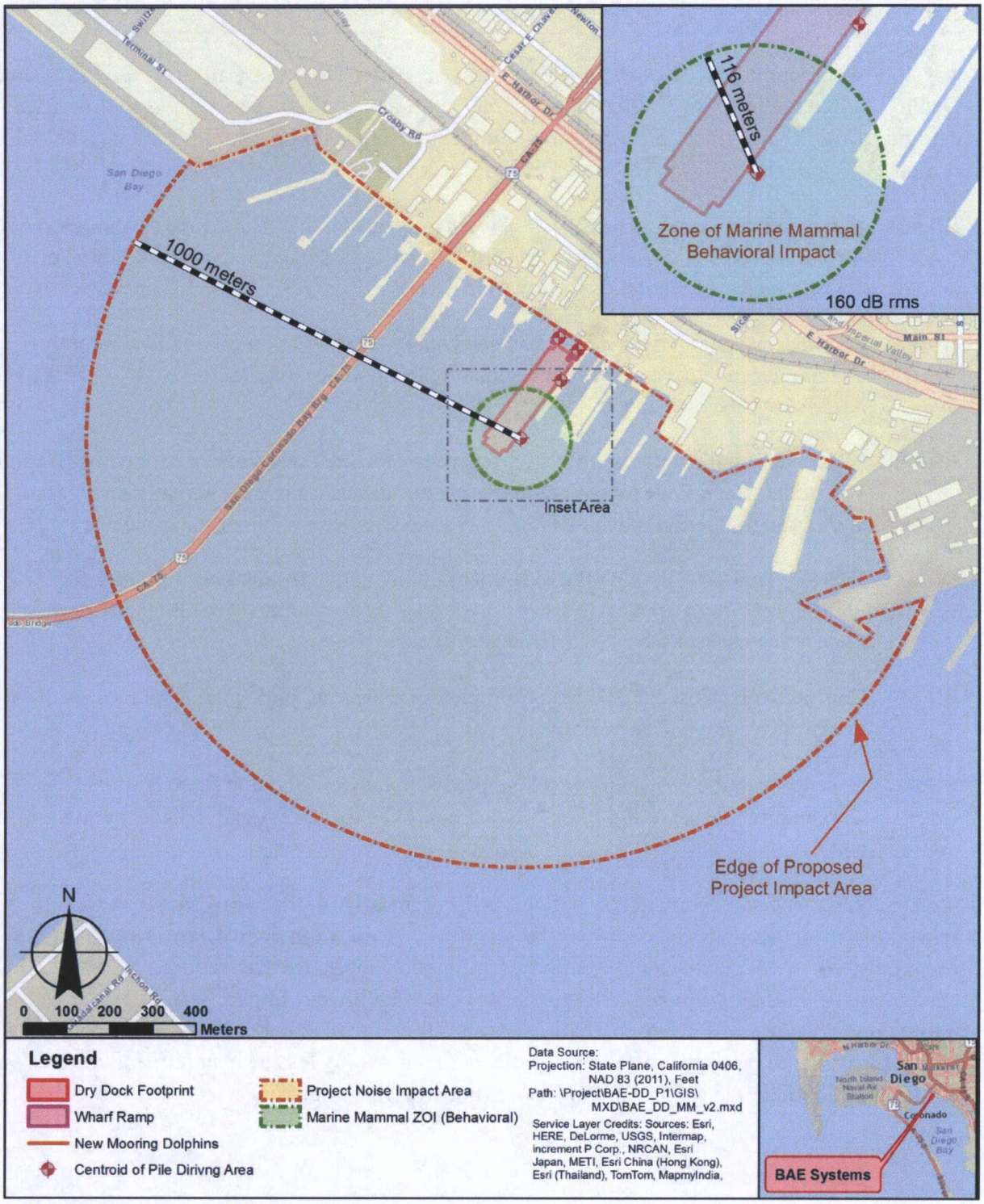

Figure 3. Estimated ZOI for marine mammals (including GSTs) for behavioral disturbance.

4.0 THRESHOLDS OF SIGNIFICANCE

The following significance criteria are based on Appendix G of the California Environmental Quality Act Guidelines (14 California Code of Regulations 15000 et seq.), and will be used to determine the significance of potential biological resources impacts. Impacts to biological resources would be significant if the Proposed Project would:

BIO-1: Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW, NMFS, or U.S. Fish and Wildlife Service;

BIO-2: Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by CDFW, NMFS, or U.S. Fish and Wildlife Service;

BIO-3: Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;

BIO-4: Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites;

BIO-5: Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; or

BIO-6: Conflict with the provisions of an adopted Habitat Conservation Plan; Natural Community Conservation Plan; or other approved local, regional, or state habitat conservation plan.

Impact assessments are categorically defined as a **Potentially Significant Impact**, where there is substantial evidence that an effect may be significant. **Less than Significant with Mitigation Incorporated** is where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." In these situations, mitigation measures will be discussed in section 5.0 of this document. **Less Than Significant Impact** is where the project creates no significant impacts, only less than significant impacts, and **No Impact**, is where the proposed project does not create an impact.

4.1 Marine Mammals

California sea lions and California coastal bottlenose dolphins are the only marine mammals species reasonably expected to occur within the Proposed Project area. California sea lions and Pacific harbor seals are most commonly seen hauled out near the mouth of the Bay and/or on buoys around the Bay. California coastal bottlenose dolphins occur throughout the Bay and move opportunistically to forage for preferred prey. Level A Harassment (physical injury) is not expected to occur based on the projected SPLs from pile driving activities, however single strike Peak SPLs generated from pile driving immediately adjacent to the point of impact would have the potential to approach or exceed the Level A (180 dB rms) injury threshold. Level B Harassment (behavioral) could occur if marine mammals move inside the 160 dB rms isopleths, which are 116 m from the source and encompass an area approximately 43,000 square meters (m^2). The variability in SPLs generated from pile driving activities and the potential impacts to marine mammals from physical contact with construction activities (pile driving equipment, barge movements, etc.), though unlikely, are possible, and therefore poses a **Less than Significant Impacts with Mitigation Incorporated** to marine mammals as defined by BIO-1.

4.2 Eastern Pacific Green Sea Turtle

Although there is no empirical data on the effects of pile driving on GSTs, NMFS has identified impact pile driving underwater sound criteria for GSTs as 190 dB rms for physiological effects (Level A Harassment) and 160 dB rms for behavioral disturbance (Level B Harassment).

In consideration of the documented distribution, foraging, and seasonal movement patterns of GSTs in San Diego Bay, no Level A Harassment (physical) is anticipated based on the projected SPLs from pile driving activities, estimated to be 176 dB rms. Potential Level A harassment to GSTs from physical contact with construction activities (pile driving equipment, barge movements, etc.) is possible, although the shipyards are not recognized as high quality habitat for these species. Level B Harassment (behavioral) has the potential to occur if GSTs enter the 160 dB rms isopleths (sound contours) during proposed pile driving activities (see Figure 2). The 160 dB isopleths are 117 m from source and encompass an area of approximately 43,000 m^2 of the Bay. The spring and summer months would be when there is the highest potential for impact, given warmer Bay waters and the potential for GST movement within the Bay. For this project, there are no pile driving activities scheduled during the spring and summer months, greatly reducing the potential for Level A and Level B impacts to GST. The absence of GSTs within the Project Area and the project schedule greatly reduce the potential for Level A (physical) and Level B Harassment (behavioral), but does not remove the potential for impacts to occur. Therefore, it can be concluded that there are **Less than Significant Impacts with Mitigation Incorporated** to GSTs as defined by BIO-1.

4.3 Fish

Coastal Pelagic Species FMP and Pacific Coast Groundfish FMP managed fish species are not documented to occur directly within the Proposed Project area, but may be present adjacent to the BAE Systems facility and proximally in the Bay. Data from 24-inch concrete pile strike does not exceed 206 dB re:1 μPa^2*sec, the criteria for direct injury to fish from pile driving. The criteria for cumulative effects to fish from repeated exposure to pile strikes is based on the size of the fish. 187 dB $SEL_{cumulative}$ is used for fish greater than 2 grams body weight, and 183 dB $SEL_{cumulative}$ for fish under 2 grams. For fish larger than 2 grams, the ZOI for repeated exposure extends 81 m from source and for those species less than 2 grams, 117 meters from source. The areas of impact and resultant ZOI areas are not high quality habitat for fish, minimizing cumulative exposure risk, but it does not negate the potential for managed fish species in these areas. The 150 dB rms behavioral affects criteria is reached approximately 541 m away from source, assuming equal spreading, and spreading over an area that is similarly considered low quality fish habitat. A low potential for cumulative exposure and hydroacoustic impacts across low quality habitat suggest there are less than significant impacts; however, cumulative impacts to fish as a result of repeated exposure to sound pressure levels within a 117-m ZOI are possible. Therefore, impacts to fish from pile driving can be characterized as **Less than Significant Impacts with Mitigation Incorporated** due to the potential for cumulative exposure effects to fish less than 2 grams.

4.4 California Least Tern

The California Least Tern does not occur within the Project Area, however, there are several CLT colonies on beaches in the Bay, two that are within 5 miles of the Proposed Project site. The lack of CLT presence within the Project Area significantly reduces the potential for direct impacts to CLTs from pile driving. CLT absence through the Project Area similarly minimizes the potential for indirect impacts to CLTs through the cumulative exposure to pile driving strikes. The highest potential for impact are indirect cumulative effect on fish prey species, which may experience behavioral changes from repeated exposure to sound pressure levels (see Section 4.3 for further information on cumulative effects on fish). The greatest potential for impact would be during the nesting season (spring and summer), when CLTs are foraging throughout the Bay, however, the project schedule does not include pile driving during the spring and summer months, greatly limiting the potential for indirect impacts to CLT. While it may be necessary for some in-water construction activity, including dredging, to take place during the CLT nesting season, construction would not impact any nesting areas, as there are no CLT nesting grounds located within the Project Area. Additional information on impacts to CLT species from other project construction activities (including dredging) can be found in the Marine Biological Assessment (M&A 2014) and water quality technical study (AMEC 2014). Project timelines and the proximity of sensitive species to the project area suggest a limited potential for direct and indirect impacts to CLT from the Proposed Project, therefore impacts are determined to be **Less than Significant.**

Table 3 provides a summary of significance for managed marine species that may be directly or indirectly impacted by pile driving activities.

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Table 3. CEQA Checklist for Impacts to Managed Marine Species during Pile Driving

Receiver	Potentially Significant	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
Marine Mammals		X		
Green Sea Turtles		X		
California Least Terns			X	
Fish		X		

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5.0 MITIGATION MEASURES

To mitigate **potentially significant** impacts to GST and marine mammals to **less than significant,** proposed mitigation measures include implementation of the following:

1) BAE Systems shall maintain an on-site biological observer during pile driving activities with the authority to stop construction if a GST or marine mammal approaches or enters the shutdown zone. The shutdown zone is the area within 10 m of construction activities or inside the 190 dB rms isopleths for GST and marine mammal cetaceans or 180 dB rms for marine mammal pinnipeds. Prior to the start of pile-driving activities, the biological observer shall monitor the shutdown zone for 15 minutes to ensure that GSTs and marine mammals are not present. If a GST or marine mammal approaches or enters the shutdown zone during the pile-driving activities, the biological observer shall notify the construction contractor to stop the activity. The pile-driving activities shall be stopped and delayed until the biological observer visually confirms either that the animal has voluntarily left the shutdown zone and is beyond the shutdown zone, or 15 minutes have passed without re-detection of the animal. If the on-site biological observer determines that weather conditions prevent the visual detection of GSTs or marine mammals in the shutdown zone, such as heavy fog, in-water construction activities with the potential to result in Level A Harassment (injury) shall not be conducted until conditions change.

2) Biological monitoring would be conducted by qualified observers. The observer would be placed in the best vantage point practicable to monitor, and when applicable, shall communicate directly with the construction superintendent and/or hammer operator.

3) Prior to the start of any pile driving activities the construction contractor shall implement a soft-start procedure to provide additional protection to GSTs, fish, and marine mammals by providing a warning and/or giving individuals a chance to leave the area prior to the hammer operating at full power. The soft-start procedure would require contractors to initiate noise from the impact hammer with an initial set of one strike at 40% or less energy followed by a 30-second waiting period. If at any point pile driving stops for greater than 30 minutes then the soft start procedure must be conducted prior to the starting of further pile driving activities.

4) During all observation periods, observers shall use binoculars and the naked eye to scan continuously for GSTs and marine mammals. As part of the monitoring process the observer shall collect sighting data and behavioral responses to construction from GSTs and marine mammals observed in the Proposed Project area of activity during the period of construction. The observer shall record any marine mammal, GST, or CLT sightings, and submit the sighting records to the District within 60 days of the completion of the mitigation monitoring with a summary of observations.

6.0 CONCLUSION

As described in Section 4.4, project timelines and the proximity of sensitive species to the Project Area suggest the potential for direct impacts and indirect impacts to the CLT from the Proposed Project will be less than significant. With implementation of mitigation measure described herein, the impacts of the Proposed Project pile driving on GSTs, fish, and marine mammals would be less than significant.

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APPENDIX J

PHASE I ENVIRONMENTAL SITE ASSESSMENT

A hardcopy of Appendix J is available for review at the

Office of the District Clerk
3165 Pacific Highway, San Diego, California

APPENDIX J

PHASE I ENVIR ONMENTAL SITE ASSESSMENT

November 6, 2014
Project No. 107764001

Ms. Kelly Czechowski
LSA Associates, Inc.
703 Palomar Airport Road, Suite 260
Carlsbad, California 92011

Subject: Phase I Environmental Site Assessment
BAE Pier 1 North Drydock Project
400 East Belt Street
San Diego, California

Dear Mr. Czechowski:

In accordance with our subcontractor agreement dated June 23, 2014, Ninyo & Moore has performed a Phase I Environmental Site Assessment of the above-referenced site. The attached report presents our methodology, findings, opinions, and conclusions regarding the environmental conditions at the site.

We appreciate the opportunity to be of service to you on this project.

Respectfully submitted,
NINYO & MOORE

Adrian Olivares
Senior Project Environmental Scientist

Stephan A. Beck, PG 4375
Manager, Environmental Sciences Division

AO/SB/gg

Distribution: (1) Addressee (via e-mail)

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1. INTRODUCTION

Ninyo & Moore was retained by LSA Associates, Inc. (LSA) on behalf of the San Diego Unified Port District (District) (herein referred to as the client) and BAE Systems, Inc. San Diego Ship Repair (BAE Systems) (project applicant) to perform a Phase I Environmental Site Assessment (ESA) of the property located at 400 East Belt Street in San Diego, California (hereinafter referred to as the site or subject site). The following sections discuss the purpose, the involved parties, the scope of services, and the limitations and exceptions associated with the Phase I ESA.

1.1. Purpose

In accordance with the ASTM International (ASTM) Standard Practice for Environmental Site Assessments on Commercial Real Estate E1527-13, the objective of the Phase I ESA is to identify recognized environmental conditions (RECs). The term recognized environmental conditions means "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions."

Identification of RECs will fall into three categories: existing RECs (as defined above); Historical RECs (HRECs); or Controlled RECs (CRECs). HRECs and CRECs are defined below.

HREC – An HREC is "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations [AULs], institutional controls, or engineering controls)."

CREC – A CREC is a "recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority),

with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, AULs, institutional controls, or engineering controls)."

1.2. Scope of Services

Ninyo & Moore's scope of services for this Phase I ESA included the following:

- Reviewed physical setting and available background information (e.g., topographic maps, geologic maps).
- Performed a site reconnaissance to document potential hazardous materials handling, storage, and disposal practices, areas of possibly contaminated surficial soil or surface water, possible sources of polychlorinated biphenyls (PCBs), underground and aboveground storage tanks (USTs and ASTs, respectively), and possible sources of contamination from activities at the site and adjacent properties.
- Reviewed federal, state, tribal, and local regulatory agency databases for the site and for properties located within a specified radius of the site. The databases documented locations of known hazardous waste sites, landfills, leaking underground storage tanks, permitted facilities that utilize USTs, and permitted facilities that use, store, or dispose of hazardous materials and wastes.
- Reviewed reasonably ascertainable local regulatory agency files for the site.
- Reviewed historical information for the site, such as historical aerial photographs, historical topographic maps, reverse street directories, and Sanborn® fire insurance maps.
- Reviewed user-provided information, as available.
- Interviewed the property occupant regarding the environmental status of the site.
- Performed a preliminary vapor encroachment screening assessment on the site and adjoining properties.
- Prepared this Phase I ESA report, summarizing findings and providing opinions and conclusions regarding RECs at the site. Findings were evaluated with respect to Questions A, B, and D of Section 8, Hazards and Hazardous Materials within Appendix G of the California Environmental Quality Act (CEQA).

1.3. Significant Assumptions

Significant assumptions were not made during the preparation of this report.

1.4. Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control. Ninyo & Moore cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5. Special Terms and Conditions

This study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, unless otherwise indicated in this report, this Phase I ESA does not include analysis of the following, which is not intended to be all-inclusive: asbestos-containing materials (ACM), methane gas, radon, lead-based paint (LBP), lead-containing

surfaces, lead in drinking water, underground pipelines, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, mold, or high voltage power lines.

1.6. User Reliance

This report may be relied upon by, and is intended exclusively for, the client and its assigns. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the above-referenced client is undertaken at said parties' sole risk.

1.7. Involved Parties

Mr. Adrian Olivares, Senior Project Environmental Scientist, conducted interviews on September 16, 2014, the site reconnaissance on October 20, 2014, and performed regulatory and historical research. Mr. Stephan Beck, Environmental Manager, performed project oversight and quality review.

2. PROJECT DESCRIPTION

The Phase I ESA was requested as part of the preparation of an Environmental Impact Report study for the Pier 1 North Drydock Project, which includes a proposed drydock (dry berth) on the north side of BAE Systems' Pier 1, located within the San Diego Bay, adjacent to the southwest of the site. The proposed drydock would support the current and planned future homeporting of U.S. Naval assets (ships) in San Diego and allow greater flexibility in the utilization of dry-docking facilities. As part of the project, BAE Systems proposes to enter into a long-term real estate agreement with the District on the two-acre land parcel (the site) and four-acre water area, which are currently leased by San Diego Gas & Electric (SDG&E) under a Tidelands Use and Occupancy Permit (TUOP). The site, also referred to as the TUOP parcel, is improved with two underground intake/discharge tunnels, which could be removed during or at a later phase of the proposed project. An evaluation of hazards and hazardous materials associated with the water area portion of the project will be completed under separate cover by AMEC.

The following sections provide a general description of the subject site and adjacent properties. Photographs taken during the site reconnaissance are provided in Appendix A.

2.1. Site Location

The site consists of a single, two acre parcel, located approximately 250 feet southwest of the East Belt Street and Sampson Street intersection, in San Diego, California (Figure 1). The site is identified by the District as 021-028, Parcel No. 2.

2.2. Site Vicinity General Characteristics

The site is located in an area generally developed with maritime-related industrial properties. The site and surrounding properties are identified in Figure 2.

2.3. Current Site Occupants and Property Use

The site is occupied by BAE Systems. The northwest portion of the site is utilized as an off-site parking lot for the BAE Systems facility (2205 East Belt Street), located adjacent to the south-east. The southwest and eastern portions of the site are located within the BAE Systems facility. Access to these areas is through the main facility entrance at 2205 East Belt Street. The subject site is utilized by BAE Systems for parking and material storage.

2.4. Site Improvements

The following sections provide a description of structures, roads, and other site improvements.

2.4.1. Structures

A pre-fabricated metal maintenance building, identified as Building 01, is present on the central-eastern portion of the site within the BAE Systems facility. Temporary trailers are also present on the southern portion of the site. Structures are not present on the northwestern parking lot portion of the site.

2.4.2. Roads

Roads are not present on the site. Site access is provided via East Belt Street.

2.4.3. Heating and Cooling Systems

Heating and cooling systems were not observed. Electricity and natural gas are provided to the site vicinity by SDG&E.

2.4.4. Sewage Disposal

Sewage disposal is provided by City of San Diego.

2.4.5. Potable Water

Potable water is provided by City of San Diego.

2.5. Adjacent Properties

Adjacent properties were observed by Ninyo & Moore personnel on October 20, 2014. The properties adjacent to the site are as follows and as depicted on Figure 2:

- **Northeast:** East Belt Street followed by Burlington Northern Santa Fe (BNSF) railroad tracks and an SDG&E substation.
- **Southeast**: BAE Systems shipyard facility (2205 East Belt Street) followed by similar use maritime-related industrial properties.
- **Southwest**: San Diego Bay.
- **Northwest:** R.E. Staite Engineering, Inc. (2145 East Belt Street) and CP Kelco (2031 East Belt Street) followed by similar use maritime businesses.

3. USER PROVIDED INFORMATION

The following sections summarize information provided by the user to assist the environmental professional in identifying the possibility of RECs in connection with the site and to fulfill the user's responsibilities in accordance with Section 6 of ASTM E1527-13. Mr. Paul Brown, Program Manager, Environmental Land Use Management, with the District was interviewed on November 4, 2014.

3.1. Title Records

A title report was not provided by the client.

3.2. Environmental Liens or Activity and Use Limitations

As the user of this Phase I ESA, Mr. Brown stated he did not search recorded land title records and does not know whether environmental liens are recorded against the site. AULs for the site are related to lease limitations for the lessee.

3.3. Specialized Knowledge

Mr. Brown stated that he has been involved with site investigations at the property.

3.4. Commonly Known or Reasonably Ascertainable Information

Mr. Brown stated the site was previously used by SDG&E's Silver Gate Power Plant for cooling water tunnels and then subleased to BAE Systems. A report prepared by Ninyo & Moore in 2011 identified petroleum and PCB impacts at the property. The report is summarized in Section 3.8.

3.5. Valuation Reduction for Environmental Issues

A property purchase was not involved; therefore, a value reduction is not applicable.

3.6. Owner, Property Manager, and Occupant Information

The site is currently owned by the District and is occupied by BAE Systems.

3.7. Reason for Performing Phase I ESA

The purpose of the Phase I ESA is to conduct environmental due diligence as part of a CEQA review of a proposed project.

3.8. Other User-Provided Information

The client provided Ninyo & Moore with two site assessment reports prepared in July 2004 by ENV America Incorporated (ENV America) and a Subsurface Investigation Report prepared by Ninyo & Moore in May 2011. The reports are included in Appendix B and are summarized below.

Technical and Site Assessment Reports (ENV America, 2004a & 2004b)

According to the report, the site was historically used by SDG&E for the storage of plant waste from the Silver Gate Power Plant, located adjacent to the northwest of the site. Two circulating water tunnels, which extend from the power house (off-site) to the bay, traverse the site. Bay water was used as once-through, non-contact cooling water in the power plant and was transmitted via two intake and two discharge tunnels. Each of the four tunnels are approximately 8 feet by 8 feet.

ENV America performed a historical review, which included review of photographs from the San Diego Historic Society, the County of San Diego Department of Planning and Land Use, and SDG&E files. In the 1930s, the land southwest of Belt Street was created by placement of fill dredged from the bay. In the late 1940s, the site was used for outdoor storage and parking. In 1952, "Pond A" was observed at the site and in 1955 an oil/water separator was present ("Structure C"). In May 1959, another oil/water separator was present ("Structure D"). From 1966 to 1973, a second pond ("Pond B") was present. Reportedly, basement bilge water was piped into the discharge cooling water tunnels to an oil-water separating pond, identified as Noble Lake, which was used for evaporation and settling. In 1974, SDG&E ceased using the pond.

According to the report, since the mid-1960s the site has been subleased to Southwest Marine and ISP Alginates and their predecessor companies. At the time of the preparation of the report, the site was subleased to Southwest Marine for shipyard operations and parking, and ISP Alginates for maintenance activities and parking (ENV America, 2004b).

ENV America performed an investigation focusing on potential impacts from the two former wastewater ponds located on the site (Figure 3). Seven borings were advanced in the vicinity of Ponds A and B, and soil and groundwater samples were collected. The investigation identified the presence of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), most of which appeared to be chlorinated solvents, polycyclic aromatic hydrocarbons (PAHs), trace metals, and polychlorinated biphenyls (PCBs) in subsurface soil and groundwater (ENV America, 2004a).

Subsurface Investigation (Ninyo & Moore, 2011)

In December 2010, Ninyo & Moore performed a subsurface investigation including advancing 38 cone penetration testing (CPT) / Ultraviolet Optical Screening Tool (UVOST) locations to depths from 40 to 48 feet below ground surface (bgs), advanced 28 soil borings, and installed 15 temporary wells to collect groundwater samples, and collected sediment samples from the cooling tunnels. Based on visual observation of the sediment extracted from the two cooling water tunnels, the sediment generally consisted of silty sands to sandy silts. Sediment samples from the discharge and intake tunnels had a slight hydrocarbon odor, and the samples were generally gray to black in color. The study found TPH, VOCs, PAHs, PCBs, and metals above the laboratory detection limits in soil, groundwater, and the cooling tunnel sediment samples.

4. RECORDS REVIEW

The following sections summarize records reviewed for the site.

4.1. Standard Environmental Record Source - Environmental Database Search

A computerized, environmental information database search was performed by Environmental Data Resources, Inc. (EDR) on September 18, 2014. The search included federal, state, tribal, and local databases. A summary of the environmental databases searched, their corresponding search radii, and number of noted properties of potential environmental concern, is presented in the EDR report provided in Appendix C. The review was conducted to evaluate whether the

site or properties within the site vicinity have been documented as having experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects.

4.1.1. Geocoded (Mapped) Listings

The site was not listed in the environmental databases reviewed. Off-site properties within 1 mile of the site appeared on various regulatory agency databases. The following table lists databases that were searched and the number of listings (excluding non-geocoded [unmapped] sites). See Appendix C for full descriptions of the searched databases.

Table 1 – ASTM Standard Environmental Databases

Database Name	Search Radius (mile)	Number of Listings
FEDERAL DATABASES		
NPL (National Priority List)	1	0
Proposed NPL	1	0
NPL LIENS (Federal Superfund Liens)	site	0
Delisted NPL	1	0
CERCLIS (Comprehensive Environmental Response Compensation and Liability Information System)	0.5	1
FEDERAL FACILITY (Federal Facility Site Information listing)	0.5	0
CERC-NFRAP (Former CERCLIS sites where no further remedial action is planned under CERCLA)	0.5	10
CORRACTS (facilities subject to Corrective action under RCRA)	1	2
RCRA-TSDF (hazardous waste treatment, storage, or disposal facilities)	0.5	1
RCRA-LQG (large quantity generator)	0.25	18
RCRA-SQG (small quantity generator)	0.25	6
RCRA-CESQG (conditionally exempt SQG)	0.25	1
US ENGINEERING CONTROL (EC)	0.5	0
US INSTITUTIONAL CONTROL (IC)	0.5	0
ERNS (Emergency Notification System)	site	0
STATE/TRIBAL DATABASES		
RESPONSE (State Response Sites, State- and Tribal- equivalent NPL)	1	0
ENVIROSTOR (The DTSC's Site Mitigation and Brownfields Reuse Program; CERCLIS-equivalent)	1	16
SWF/LF (Solid Waste Information System)	0.5	1
LUST (Geotracker's Leaking Underground Fuel Tank Report)	0.5	44
SLIC (Spills, Leaks, Investigation and Cleanup database by the California Regional Water Quality Control Board)	0.5	29
San Diego County Site Assessment and Mitigation (SAM)	0.5	41
UST (registered USTs)	0.25	3
AST (registered ASTs)	0.25	3
FEMA UST (Underground Storage Tank Listing)	0.25	0
VCP (Voluntary Cleanup Program Properties)	0.5	0
Note: LUST = Leaking Underground Storage Tank		

Off-site properties/facilities listed in the database report were evaluated as to their potential to impact soil and/or groundwater at the site. To supplement the information in the EDR report, the State Water Resources Control Board (SWRCB) GeoTracker database was reviewed and/or files were requested from the County of San Diego, Department of Environmental Health (DEH). Information from both sources is included in the facilities of potential concern summaries below. Supporting documentation is provided in Appendix D. The following properties/facilities were interpreted to represent a potential environmental concern to the site, based on their proximity to the site, the nature of the database on which they are listed, and/or the assumed direction of groundwater flow in the site vicinity (southwest):

Table 2 – Facilities of Potential Concern

Facility Name/Address	Distance/ Direction from Site	Database	Summary
BAE Systems (Southwest Marine) 2205 East Belt Street	Adjacent to East	CERC-NFRAP LUST RCRA-LQG SLIC	The facility has two closed unauthorized release cases (H09689-001 and -002) and one open case. The first case was opened as part of the voluntary assistance program (VAP) case for dredged bay sediment that was stockpiled to dry and then disposed of offsite. The second case (-002) was opened when soil sampling as part of an in-place tank closure found petroleum hydrocarbon-impacted soil in the vicinity of a former dispenser. It was estimated that less than 10 cubic yards of impacted soil is present between 5 and 13 feet bgs. The case was closed in May 1998. The third case (2090005) is related to bay sediments and surface water associated with ship repair services performed at the facility. The Regional Water Quality Control Board (RWQCB) is the lead oversight agency. Contaminants of concern include PCBs, metals, petroleum hydrocarbons, and PAHs. In 2012, the RWQCB issued a Cleanup and Abatement Order (CAO) for the shipyard sediment cleanup.

Table 2 – Facilities of Potential Concern

Facility Name/Address	Distance/ Direction from Site	Database	Summary
ISP Alginates (Kelco Division of Merk & Co) 2145 East Belt Street	Adjacent to West	CERC-NFRAP Enviros-tor LUST RCRA-LQG SLIC	The property has 10 unauthorized release cases (H02377-001 through -010), of which, 9 are closed. According to the most recent closure letter for case -009, dated March 15, 2014, 30 areas were identified as potential environmental concerns in Phase I and II ESAs, and by the DEH. Contaminants of concern include TPH, PAHs, PCBs, formaldehyde, calcium chloride, acids, and VOCs. Of the 30 areas of concern, four were recommended for the investigation to be deferred until current operations and infrastructure changes. For the remaining areas, no further action was recommended. The DEH concurred with the consultant and closed the case with residual contamination in soil and groundwater remaining in place. The open case -010 is under the DEH VAP and no information was found at the DEH regarding the specifics of the case.
Continental of San Diego, Inc. (South-west Marine) 1995 Bay Front	149 feet / North	CERC-NFRAP Enviros-tor LUST RCRA-LQG SLIC	The facility has three closed unauthorized release cases (H00120-001 through -003). After reviewing case files from the DEH, it was found that the property was incorrectly plotted by EDR and the property is located approximately 1,000 feet northwest of the site, adjacent to the Coronado Bridge. Based on the distance from the site, this facility is not considered a concern to the subject site at this time.
Silvergate Power Plant (SDG&E Environmental Dept) 1348 Sampson Street	423 feet / ENE	Cortese HMMD LUST SAM SLIC	The former power plant has two unauthorized release cases (H13942-001 and -002). The first case was opened as a result of a fuel oil line leak to soil. Approximately 210 cubic yards of soil were disposed of offsite and the case was closed with residual contamination in soil. A second case (-002) was opened in July 2006 when three 222,000-gallon USTs were closed-in-place. Petroleum hydrocarbon impacts to soil and groundwater were found during the tank closures. Additionally, TCE was found in groundwater, which the consultant attributed to an off-site, upgradient source. The DEH issued a notice to comply letter in May 2012 for past due reports and in December 2013, the case was transferred to the RWQCB.
Chevron Pipeline Rupture Belt Street	793 feet / ESE	SLIC	During drilling of a soil boring in February 2001, an 8-inch unleaded gasoline underground pipe was ruptured. It was estimated approximately 3,000 gallons of gasoline was released to soil and groundwater The case was closed in August 2003.
CP Kelco 2025 East Harbor Drive	893 feet / North	Enviros-tor FINDS RCRA-LQG	The facility has three closed unauthorized release cases (H38979-001 through -003). The facility had three 275,000-gallon diesel and one 275,000-gallon isopropyl alcohol AST that were removed from the property. Site assessment investigations found impacts were limited to the upper 5 feet of soil and groundwater was not impacted.

Notes:
- Distances provided by EDR
- A complete description of each database is provided in the EDR Report (Appendix C).

Based on our review of the database report and previous project experience, numerous off-site facilities of potential environmental concern are present within the site vicinity (within the ASTM-specified search distances). The fact that 73 LUST and SLIC listings

are reported within one-half mile of the site, the site's location in an area with a long history of industrial usage, and on-going sediment remediation project indicates a higher likelihood of off-site releases from hazardous materials and/or petroleum products potentially impacting groundwater at the site. See Appendix C for more detailed regulatory information provided in the database report for the properties in the site vicinity.

4.1.2. Non-Geocoded (Unmapped) Listings

This portion of the regulatory database report includes properties for which regulatory agencies did not report sufficient address information to be plotted by EDR. The listings were reviewed to evaluate their potential impact to the site, based on their interpreted distance/direction from the site, and/or the nature of the database in which they were listed. One facility, Southwest Marine, Inc., located adjacent to the east of the site was listed in the DEH's Site Assessment and Mitigation (SAM) Program database. According to the database, the facility has two closed unauthorized release cases (H09689-001 and -002), which were summarized in Section 4.1.1. It is our opinion that there is a low likelihood that the remaining non-geocoded listings represent an environmental concern to the site at the current time, based on the nature of the listings and/or the interpreted distances of the properties associated with the listings.

4.2. Additional Environmental Record Sources

According to the ASTM Standard, "if the property or any of the adjoining properties is identified on one or more of the standard environmental record sources, pertinent regulatory files and/or records associated with the listing should be reviewed." The purpose of a file review is to "obtain sufficient information" to assist the environmental professional in determining if an REC, HREC, CREC or *de minimis* condition exists at the site in connection with the listing of standard environmental record sources (see Table 1). Because a portion of the site is within the BAE Systems facility, addresses for the site and BAE Systems facility were requested and reviewed. Off-site records were summarized in Section 4.1.1, Table 2. Regulatory records for the site and adjoining properties are provided in Appendix D.

4.2.1. County of San Diego Department of Environmental Health

According to a DEH representative on August 14, 2014, no records were found for the site address (400 East Belt Street). Although a portion of the site is within the shipyard (2205 East Belt Street), the site is primarily used for material storage and parking. DEH records related to the BAE Systems facility were discussed in Section 4.1.1.

4.2.2. San Diego County Air Pollution Control District

According to a representative of the San Diego County Air Pollution Control District (APCD) on July 22, 2014, records were not found for the site address or 2205 East Belt Street. However, APCD records were provided from the RWQCB. APCD permits to operate (PTOs) were issued to BAE Systems for the following:

- Adhesive material application operation
- Solvent recovery process
- Fiberglass reinforced plastic machining booths (Booths A and B)
- Marine coating and adhesive application operations (fixed and portable)
- Marine/metal parts coating operation
- Fiberglass/polyester/epoxy resin operation
- Abrasive blast room with recycling equipment
- Remote reservoir solvent cleaner
- Cold solvent cleaner
- Portable diesel engine to operate a winch
- Diesel engines for:
    - Crane on the Pride of San Diego Dry Dock
    - Dredging crane
    - Floating dry dock

The PTOs pertain to BAE Systems shipyard operations. The permitted equipment was not observed during the site reconnaissance and is not associated with the subject site.

4.2.3. City of San Diego Fire Department

According to a representative of the City of San Diego Fire Department (SDFD) on July 28, 2014, records were not on file for the 400 East Belt Street address. Records were found for 2205 East Belt Street and were reviewed to evaluate whether the listings were

located within the site boundary. According to a hazardous material permit, one 400-gallon propane AST, 20 5- to 7-gallon propane cylinders, and five 25-gallon propane cylinders were approved in July 2009. A second application was on file for the installation of three diesel ASTs of 100-gallon (2) and 210-gallon (1) capacities. The ASTs and cylinders correspond to those observed during Ninyo & Moore's site reconnaissance and are depicted on Figure 3. Other records on file were for additional tanks and UST removal located east of the site.

4.2.4. Regional Water Quality Control Board, San Diego Region

According to a representative of the RWQCB on July 22, 2014, records were not on file for the 400 East Belt Street address. Documents were available for the 2205 East Belt Street address, and pertained to Clean Water Act Section 401 Water Quality Certification documentation for dredging near the Pride of San Diego Dry Dock and Pier 4 Replacement Project. These projects are located outside of the site boundaries and are considered offsite. In 2012, the RWQCB issued a CAO for the shipyard sediment cleanup project. The case was previously summarized in Section 4.1.1.

4.2.5. Industrial Wastewater Control Program

According to a representative of the Industrial Wastewater Control Program (IWCP) on July 29, 2014, records were not on file for the 400 East Belt Street address. The following three records were on file for the 2205 East Belt Street address:

- Permit for vehicle steam cleaning issued to BAE Systems and Southwest Marine. Violations were issued for late/incomplete self-monitoring reports in 2004, 2005, 2009, and 2014, and for an exceedance in zinc levels in 1996.
- An incomplete permit application filed for the San Diego Bay Environmental Restoration Fund, which was filed in June 2014. No permit was issued at the time the IWCP's response.
- A permit for construction dewatering with possible pollutants was issued to BAE Systems in August 2013 and inactivated in October 2013. No violations were issued.

4.2.6. Online Regulatory Databases

Online regulatory databases were reviewed by Ninyo & Moore to supplement the environmental database search conducted by EDR. The following is a summary of pertinent information.

Table 3 – Online Regulatory Databases

Online Database/Website	Findings
Department of Toxic Substances Control (DTSC) Hazardous Waste Tracking System	The site address was not listed.
DTSC EnviroStor	The site was not listed. One adjacent property, Nutrasweet Kelco Co (2145 East Belt Street) was listed as an inactive tiered permit facility. No other information was provided.
DTSC Cortese List	The site was not listed.
State Water Resources Control Board (SWRCB) GeoTracker	The site was not listed. Unauthorized release cases in the site vicinity were discussed in Section 4.1.1.
DTSC List of Facilities with Deed Restrictions	The site was not listed.
California Department of Resources Recycling and Recovery (CalRecycle) Solid Waste Information System	The Coronado Bridge Paint Limited Volume Transfer Operation (LVTO) is located at 1995 Newton Avenue, approximately 2,000 feet north-northwest of the site. Waste material is collected from state right-of-way (ROW), transported to the facility, and then transferred offsite for disposal. Based on the type of type of facility (transfer) and distance from the site, this facility is not an environmental concern to the subject site at this time.
California Department of Oil, Gas, and Geothermal Resources (DOGGR)	Wells were not depicted on the site.
United States Pipeline and Hazardous Materials Safety Administration, National Pipeline Mapping System Map Viewer	A hazardous materials transmission pipeline operated by Kinder Morgan is depicted along the railroad ROW adjacent to the northeast of the site.
Army Corps of Civil Engineers Formerly Used Defense Sites (FUDS) Database	No FUDS properties were depicted within 0.5 mile of the site.

4.3. Physical Setting

The following sections include discussions of topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon the referenced document review and/or our visual reconnaissance of the site.

4.3.1. Topography

Based on a review of the United States Geological Survey (USGS), Point Loma, California, 7.5-minute quadrangle map, the site is situated at an elevation of approximately 20 feet

above mean sea level. The topography at the site and vicinity slopes to the southwest toward the San Diego Bay, located adjacent to the southwest of the site (USGS, 2012).

4.3.2. Site Geology

Based on a review of the USGS Geologic Map of the San Diego 30' x 60' Quadrangle, the site is underlain by artificial fill, which is described as deposits of fill resulting from human construction, mining, or quarrying activities. The fill includes compacted engineered and non-compacted, non-engineered fill (Kennedy and Tan, 2008).

During Ninyo & Moore's December 2010 field investigation, 38 CPT / UVOST borings were advanced using a 30-ton truck-mounted CPT rig. Borings were advanced to a maximum depth of 48 feet bgs. UVOST data was simultaneously collected while advancing the CPT borings. According to the UVOST logs, soil was predominately described as sand, sandy silt, silty sand from the surface to approximately 30 feet bgs. From approximately 30 feet to 48 feet, alternating layers of clays, silts, and sands were logged (Ninyo & Moore, 2011).

4.3.3. Surface Water

Natural surface water bodies, including ponds, streams, or other bodies of water, were not observed on the site during the time of the site reconnaissance. The San Diego Bay is located adjacent to the southwest of the site (USGS, 2012).

4.3.4. Groundwater

According to the RWQCB Water Quality Control Plan for the San Diego Basin, the project area is situated within the Chollas Hydrologic Subarea of the San Diego Mesa Hydrologic Area (HA) and Pueblo San Diego Hydrological Unit. Groundwater within the San Diego Mesa HA is exempt from municipal beneficial use (RWQCB, 2007).

During Ninyo & Moore's December 2010 field investigation, temporary groundwater monitoring wells were installed in 15 soil borings. Groundwater depth, as measured from the temporary wells, ranged from 8.4 to 10.1 feet bgs (Ninyo & Moore, 2011).

Groundwater is expected to follow the topography and flow to the southwest. The groundwater flow direction may vary due to hydrogeologic properties such as soil porosity and permeability, tidal influence, groundwater extraction, recharge by irrigation and rainfall, and other factors.

4.4. Site Historical Use Information

Ninyo & Moore conducted a historical record search for the site. This included a review of city directories, historical fire insurance maps, historical aerial photographs, topographic maps, and building department records. The following sections summarize information obtained from the historical sources utilized for this assessment.

4.4.1. City Directories

Available historical reverse street directories from 1927 through 2013 were obtained from EDR and reviewed to evaluate facilities of potential concern, which may have been historically located at or near the site. A summary of notable city directory listings is presented in the table below, and the EDR city directory abstract is provided in Appendix E.

Table 4 – Summary of City Directory Listings

Year	Listings in Address Range of Site and Surrounding Area
1927	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): None in vicinity
1933	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): None in vicinity
1938	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): None in vicinity
1943	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2145 – Kelco Chemicals
1945	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2145 – Kelco Co Plant
1948	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2031 – Shepard Diesel Marine; 2145 – Kelco Co Plant
1952	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2031 – Shepard Diesel Marine; 2095 – Golden MH Constn; 2145 – Kelco Co; 2295 – ETS-Hokin & Galvan (Sampson Ave): 1348 – San Diego Gas & Electric (Silver Gate Station); 1401 – Carter-Delig Oil Co
1955	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2031 – Shepherd Marine; 2095 – Warehouse Water Front; 2145 – Kelco Co Genl Ofc

Table 4 – Summary of City Directory Listings

Year	Listings in Address Range of Site and Surrounding Area
1960/61	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2025 – National Marine Terminal, Inc; 2031 – Shepard Diesel Marine, Johnson Western Constructors; 2095 and 2145 – Kelco Plant; 2295 – ETS-Hokin & Galavan (Sampson Ave): 1401 – Carter-Delig Oil Co, San Diego Maritime Construction
1966	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2095 and 2145 – Kelco Co (Plant); 2293 – Harco Engineering; 2295 – ETS-Hokin & Galvan Elec Contrs (Sampson Ave): 1347 – International Forwarding Co, Universal Carloading and Distributing Co, Western Parcel Service; 1348 – San Diego Gas & Electric (Silver Gate Station); 1401 – National Petroleum Co
1975	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2145 – Kelco Co (Plant) (Sampson Ave): 1335 – San Diego Marine Construction Corp; 1347 –Santa Fe Railway; 1348 – San Diego Gas & Electric (Silver Gate Station); 1401 – National Petroleum Co
1980	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2145 – Kelco Co (Plant) (Sampson Ave): 1335 – SDG&E (Transformers); 1347 – Atchison Topeka & Santa Fe Railway, Ace High Transportation, G&H Transportation Inc; 1348 – San Diego Gas & Electric (Silver Gate Station)
1984	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2145 – Kelco Co (Plant) (Sampson Ave): 1335 – SDG&E (Transformers); 1348 – San Diego Gas & Electric (Silver Gate Station)
1990	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2205 – Southwest Marine
2000	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2205 – Southwest Marine
2006	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2205 – Southwest Marine
2008	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2145 – ISP Alginates Inc
2013	***Site Address:*** Not Listed ***Surrounding Area Addresses*** (E. Belt St): 2145 – RE Staite Engineering

The site address was not listed in the city directory review. Properties in the surrounding area were primarily maritime-related industrial facilities from 1943 to the present.

4.4.2. Sanborn® Fire Insurance Maps

Sanborn® fire insurance map coverage was available for the subject site for selected years from 1921 to 1970. The Sanborn maps are summarized in the table below and provided in Appendix E.

Table 5 – Sanborn Fire Insurance Rate Map Summary

Year	Description
1921	The site and adjacent property to the northwest is submerged tidelands. The Atchison Topeka & Santa Fe railroad is depicted to the north of the site followed by the McCormick Lumber facility. San Diego Marine Construction Co is depicted on a pier/wharf adjacent to the east of the site.
1950 1956 1959 1960 1962 1965 1970 1971	The tidelands at the site and adjacent properties to the northwest and southeast are filled. Structures are not depicted at the site. The Kelco Co, Alginating Plant is depicted adjacent to the northwest. Multiple processing tanks and ASTs containing calcium chloride, formaldehyde, oil, and acids are depicted at the facility. San Diego Marine Construction Co. is depicted adjacent to the southeast of the site. The lumber facility to the north of the site has been replaced by the SDG&E Silvergate Power Plant. Approximately 300 feet to the northeast, on the northeast corner of Sampson Street and Belt Street, an oil and grease warehouse is depicted along with six oil ASTs.

4.4.3. Historical Aerial Photographs

A comprehensive historical aerial photograph review was performed by ENV America in their Technical Report dated July 2004, which included review of the San Diego Historic Society photographs, the County of San Diego Department of Planning and Land Use aerial photographs, and SDG&E files. Excerpts from ENV America's review are included in the table below, along with Ninyo & Moore's historical review for select years from 1953 through 2013. A listing of the photographs reviewed and summary of notable observations from the photograph review is provided in the table below.

Table 6 – Aerial Photographs Summary

Date	Source	Summary
1930	A	The site and adjacent properties to the northwest and southeast are beach and submerged tidelands.
1938	A	The site is vacant, recently filled tidelands.
1941	A	Construction debris is visible on southern portion of the site. The Silver Gate Power Plant is under construction to the north-northeast of the site.
1949-52	A	The site is used for outdoor storage and parking. "Pond A" is present on the south-central portion of the site (1952 photograph).
1953	B	The site appears vacant and Pond A is no longer visible. A dark feature, likely a pond or soil disturbance, is present on the northeastern portion of the site. The adjacent properties to the northwest and southeast are developed with industrial buildings, and the Silver Gate Power Plant is present adjacent to the north-northeast. East Belt Street and railroad tracks are visible adjacent to the north-northeast of the site.
1955	A	An oil/water separator identified as Structure C is on the northeastern portion of the site, north of Pond B.
1959	A	A second oil/water separator, "Structure D" is present adjacent to the south of Structure C.
1963	B	A dark feature resembling a pond is present in the vicinity of Pond B, on the eastern-central portion of the site. Increased industrial development is apparent in the surrounding area.

Table 6 – Aerial Photographs Summary

Date	Source	Summary
1966-73	A	Pond B is present.
1975	B	Automobiles are visible on the northern and central portions of the site. The southern portion of the site appears vacant. The surrounding area is developed with industrial buildings.
1983	B	The eastern and western portions of the site are divided by a fence. A structure in the vicinity of the present-day maintenance building is visible. The surrounding area appears similar to the previous photograph.
1989	B	A portion of the present-day maintenance building is visible.
1994	B	An unknown structure is present north of the maintenance building.
2005	B	An unknown rectangular structure is present on the northeastern portion of the site, along East Belt Street.
2009 2010 2012 2013	B, C	The site and vicinity are in their current configuration. The Silver Gate Power Plant has been replaced by the present-day electric substation.
Sources: A = Technical Report for RWQCB Investigation Order No. R9-2004-0026 (ENV, 2004) B = EDR C = Google Earth Pro		

4.4.4. Building Department Records

Due to the absence of structures at the site, building permits were not reviewed.

4.4.5. Historical Topographic Maps

Historical topographic maps were provided by EDR for the years 1904, 1930, 1942, 1953, 1967, 1975, 1991, 1994 and 1996. In the 1904 and 1930 topographic maps, the site and adjacent property to the northwest and southeast appeared as submerged tidelands. A rail-road track was depicted to the north of the site. In the 1942 through 1996 topographic maps, tidelands at the site and vicinity have been filled; no structures are depicted. In the 1996 map, the site is depicted within a built-up area. Environmental concerns were not noted during the historical topographic map review.

4.5. Adjacent Property History

Facilities of potential concern identified in the surrounding area include the following adja-cent industrial use properties with multiple unauthorized release cases:

- BAE Systems (Southwest Marine) - 2205 East Belt Street
- ISP Alginates (Kelco Division of Merk & Co.) - 2145 East Belt Street
- Silvergate Power Plant (SDG&E Environmental Dept) - 1348 Sampson Street

5. SITE RECONNAISSANCE

The objective of the site reconnaissance was to obtain information indicating the likelihood of RECs in connection with the site. The reconnaissance was conducted on October 20, 2014 by Mr. Adrian Olivares. A site plan is provided as Figure 3 and photographic documentation is provided in Appendix A.

5.1. Methodology and Limiting Conditions

The site reconnaissance consisted of walking on the site and along public sidewalks (for viewing of adjacent/nearby properties). The hazardous materials storage containers were inaccessible at the time of the site reconnaissance, which is considered a limiting condition. Due to security issues within the BAE Systems facility, photographs in certain areas were limited.

5.2. General Site Setting

At the time of the site reconnaissance, the site was developed with a parking lot on the northwestern portion, which is utilized as off-site parking for the adjacent BAE Systems facility. The southern and eastern portions of the site are within the BAE Systems facility. A pre-fabricated metal maintenance building, identified as Building 01, is present on the central-eastern portion of the site. Temporary trailers are also present on the southern portion of the site. The southwestern portion was under construction and is to be used as a truck loading area for the San Diego Bay Cleanup Project. A truck loading ramp was partially dug adjacent to the bay and a truck wash area was under construction. Surface drainage at the site was directed toward storm drains at the BAE shipyard or to the bay.

5.3. Adjacent Property Observations

Adjacent properties were observed from the site and from publicly accessible vantage points (e.g., streets, sidewalks) during the site reconnaissance. Similar use industrial properties were present in the site vicinity. Adjacent properties are depicted on Figure 2 and discussed in Section 2.5

5.4. Site Observations

Ninyo & Moore evaluated the site for evidence of the following potential environmental concerns:

Table 7 – On-Site Observations

Conditions	Observed or Noted	Comments
Hazardous Substances/Petroleum Products	X	Diesel fuel, propane, and four hazardous materials storage lockers were observed within the BAE Systems facility portion of the site.
Waste Generation/Storage/Disposal	X	Dredged solid waste was observed within the remediation area (southwestern) of the site. The debris was being demolished for disposal at an off-site location. A hazardous waste storage area is located adjacent to the northwest of the hazardous materials storage lockers. Drums containing hazardous waste were stored on wood pallets. Additional hazardous waste drums were observed on a pallet with secondary containment in the maintenance building.
ASTs	X	Two 100-gallon diesel ASTs and one 210-gallon diesel AST equipped with electric pumps were observed adjacent to the southwest of the maintenance building. A 400-gallon propane AST and several 5-gallon cylinders were present adjacent to the diesel ASTs.
Potential Evidence of USTs		Not observed
Potential PCB-Containing Equipment		Not observed
Chemical/Petroleum Odors		Not observed
Concrete Patches/Pads	X	Concrete patches were throughout the site and correspond to boring locations from a prior Phase II ESA. Other patches were related to subsurface utilities.
Pools of Liquid		Not observed
Sewage Discharge Pipes		Not observed
Floor Drains/Sumps	X	A sump was under construction at the truck loading ramp area on the southwestern portion of the site. Storm drains were located on the shipyard portion of the site.
Elevator		Not observed
Wells		Not observed

Table 7 – On-Site Observations

Conditions	Observed or Noted	Comments
Drums	X	Approximately 20 empty drums and drums containing hazardous waste were stored on wooden pallets along the southwestern property boundary in the vicinity of the hazardous materials/waste storage area. Approximately twelve drums containing new fuel/oil and hazardous waste were stored on pallets equipped with secondary containment in the maintenance building.
Unidentified Substance Containers		Not observed
Stained Soil or Pavement	X	Stained asphalt and concrete were generally observed throughout the site. Areas of heavy staining were observed on asphalt and concrete floors inside the maintenance building and adjacent to the hazardous materials storage area.
Stressed Vegetation		Not observed
Pits, Ponds, or Lagoons		Not observed
Wastewater Discharges Disposal Systems		Not observed
Septic Systems/Cesspools		Not observed
Municipal Solid Waste Disposal Areas		Not observed

6. PRELIMINARY VAPOR ENCROACHMENT SCREEN

The purpose of the preliminary vapor encroachment screen is to identify a vapor encroachment condition (VEC), which is the presence or likely presence of potential contaminants of concern (COC) vapors in subsurface soils at the site caused by the release of vapors from contaminated soil or groundwater either on or near the site. The potential for VECs beneath the site was evaluated using a Vapor Encroachment Screening Matrix (VESM). The vapor encroachment screening was based on the guidelines presented in the ASTM E2600-10 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. The VESM included performing a Search Distance Test to identify if there are any known or suspect contaminated properties surrounding or upgradient of the site within specific search radii, a COC Test (for those known or suspect contaminated sites identified within the Search Distance Test) to evaluate whether or not COCs are likely to be present, and a Critical Distance Test to evaluate whether or not COCs in a contaminated plume may be within the critical distance of the site (100 feet for non-petroleum hydrocarbon contaminants and 30 feet for petroleum hydrocarbon contaminants).

Based on the completion of the VESM, it is likely a VEC exists from on- and off-site historical uses. A copy of the VESM is included in Appendix F.

7. INTERVIEWS

Interviews were conducted by Ninyo & Moore with the objective of obtaining information regarding potential RECs in connection with the site. Interviews with present owners, operators, and/or occupants of the site, as well as other knowledgeable parties as appropriate, is mandated by ASTM E1527-13.

7.1. Property Owner Representative

Mr. Paul Brown, Program Manager, Environmental Land Use Management, with the District was interviewed on November 4, 2014. According to Mr. Brown, the site is used for parking and construction equipment lay down by BAE Systems. Mr. Brown is aware of environmental issues associated with historical uses from the site from a 2011 report prepared by Ninyo & Moore (Ninyo & Moore, 2011). Historical uses include cooling water tunnels and surface impoundments. The site and surrounding area was constructed from dredged bay sediment. He does not know whether there has been storage of hazardous materials or wastes on the property and recommended we contact BAE Systems. Mr. Brown stated there is an ongoing bay sediment cleanup related to a CAO issued for the site and surrounding area.

7.2. Property Manager

A property manager was not identified for interview.

7.3. Occupants

Mr. Shaun Halvax completed the Property Background Questionnaire on September 22, 2014. According to the questionnaire, the site has been used for maritime industrial purposes, including ship/boat building and repair since approximately 1915. BAE Systems is not aware of any previous structures at the site. Four USTs were formerly located at the shipyard (all of which are located outside of the site boundaries of this study). Fill soils have

been brought to the site and hazardous materials/waste have been stored at the site. Chemicals have been stored at the site in quantities greater than 5-gallons. There are subsurface wastewater features, including sumps, clarifiers, and discharge systems. Mr. Halvax noted that there are issues related to spills/contamination with properties in the immediate site vicinity. There is also an environmental cleanup lien / AUL filed for the site and pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property.

7.4. Past Owners

Past ownership entities were not made available to Ninyo & Moore during the preparation of this ESA. Therefore, interviews with past site owners were not conducted.

8. FINDINGS

Based upon the results of this Phase I ESA, the following findings are provided.

- The site consists of a single, two acre parcel, located approximately 250 feet southwest of the East Belt Street and Sampson Street intersection. Two underground intake/discharge tunnels traverse the site.

- At the time of the site reconnaissance, the site was developed with a parking lot on the northwestern portion, which is utilized as off-site parking for the adjacent BAE Systems facility. The southern and eastern portions of the site are within the BAE Systems facility. A pre-fabricated metal maintenance building, identified as Building 01, is present on the central-eastern portion of the site. The southwestern portion was under construction and is to be used as a truck loading area for the San Diego Bay Cleanup Project.

- During the site reconnaissance, the following hazardous materials/wastes were observed:

    - Two 100-gallon diesel ASTs and one 210-gallon diesel AST equipped with electric pumps were observed adjacent to the southwest of the maintenance building.

    - A 400-gallon propane AST and several 5-gallon cylinders were present adjacent to the diesel ASTs.

    - Dredged solid waste was observed within the remediation area (southwestern) of the site. The debris was being demolished for disposal at an off-site location.

- A hazardous waste storage area is located adjacent to the northwest of the hazardous materials storage lockers.
- Approximately 20 empty drums and drums containing hazardous waste were stored on wooden pallets along the southwestern property boundary in the vicinity of the hazardous materials/waste storage area. Approximately twelve drums containing new fuel/oil and hazardous waste were stored on pallets equipped with secondary containment in the maintenance building.

- Based on a review of historical records and prior reports, in the 1930s, the land southwest of Belt Street was created by placement of fill dredged from the bay. In the late 1940s, the site was used for outdoor storage and parking. In 1952, "Pond A" was observed at the site and in 1955 an oil/water separator was present ("Structure C"). In May 1959, another oil/water separator was present ("Structure D"). From 1966 to 1973, a second pond ("Pond B") was present. Reportedly, basement bilge water was piped into the discharge cooling water tunnels to an oil-water separating pond, identified as Noble Lake, which was used for evaporation and settling. In 1974, SDG&E ceased using the pond.

- The following environmental assessments identified contamination in soil, groundwater, and sediment at the site as a result of historical uses at the site and potential impacts from off-site sources:
  - ENV America performed an investigation focusing on potential impacts from the two former wastewater ponds located on the site. The investigation identified the presence of TPH, VOCs, PAHs, trace metals, and PCBs in subsurface soil and groundwater.
  - In December 2010, Ninyo & Moore performed a subsurface investigation including advancing 38 CPT / UVOST locations to a maximum depth of 48 feet bgs, advanced 28 soil borings, and installed 15 temporary wells to collect groundwater samples, and colleted sediment samples from the cooling tunnels. The study found TPH, VOCs, PAHs, PCBs, and metals above the laboratory detection limits in soil, groundwater, and sediment samples.

- DEH and APCD records were not found for the site address. Records were available for the adjacent BAE Systems facility, which the eastern and southern portions of the site are located within; however, the available records pertained to other areas outside of the site boundaries.

- SDFD records were not on file for the 400 East Belt Street address. Records were found for the BAE Systems facility and were reviewed to evaluate whether the listings were located within the site boundary. According to a hazardous material permit, one 400-gallon propane AST, 20 5- to 7-gallon propane cylinders, and five 25-gallon propane cylinders were approved in July 2009. A second application was on file for the installation of three diesel ASTs of 100-gallon (2) and 210-gallon (1) capacities. The ASTs and cylinders correspond to those observed during Ninyo & Moore's site reconnaissance and are depicted on Figure 3.

- RWQCB records were not on file for the 400 East Belt Street address. Documents were available for the 2205 East Belt Street address, and pertained to Clean Water Act Section 401 Water Quality Certification documentation for dredging near the Pride of San Diego Dry Dock and the Pier 4 Replacement Project. These projects are located outside of the site boundaries and are considered offsite. In 2012, the RWQCB issued a CAO for the shipyard sediment cleanup project.

- IWCP records were not on file for the 400 East Belt Street address. Three records were found for the BAE Systems facility and were related to violations for late/incomplete self-monitoring reports, exeedance in zinc levels, an incomplete permit application, and permit for construction dewatering with possible pollutants.

- Numerous off-site facilities of potential environmental concern are present within the site vicinity (within the ASTM-specified search distances). The fact that 73 LUST and SLIC listings are reported within one-half mile of the site, and the site's location in an area with a long history of industrial usage, indicates a higher likelihood of offsite releases from hazardous materials and/or petroleum products potentially impacting groundwater at the site. Facilities of potential concern identified in the surrounding area include the following adjacent industrial properties with multiple unauthorized release cases:

  - BAE Systems (Southwest Marine) - 2205 East Belt Street
  - ISP Alginates (Kelco Division of Merk & Co.) - 2145 East Belt Street
  - Silvergate Power Plant (SDG&E Environmental Dept) - 1348 Sampson Street

- Based on the completion of the VESM, it is likely a VEC exists from on- and off-site historical uses.

8.1. Known or Suspect Recognized Environmental Conditions

This assessment has indicated the following evidence of known or suspected RECs and/or HRECs and CRECs in connection with the site:

- From the 1950s to 1974, the former Silver Gate Power Plant utilized the site for settlement ponds (Ponds A and B), oil/water separators (Structures C and D), and Noble Lake, which was used for evaporation and settling of basement bilge water. Two circulating water tunnels, which extend from the power house (off-site) to the bay, traverse the site. Bay water was used as once-through, non-contact cooling water in the power plant and was transmitted via two intake and two discharge tunnels. Site assessments at the site have found TPH, VOCs, PAHs, PCBs, and metals in soil, groundwater, and cooling tunnel sediment samples.

- The site's location in an area with a long history of industrial usage, indicates a higher likelihood of off-site releases from hazardous materials and/or petroleum products potentially impacting groundwater at the site. Facilities of potential concern identified in the surrounding area include the following adjacent industrial use properties with multiple unauthorized release cases:
    - BAE Systems (Southwest Marine) - 2205 East Belt Street
    - ISP Alginates (Kelco Division of Merk & Co.) - 2145 East Belt Street
    - Silvergate Power Plant (SDG&E Environmental Dept) - 1348 Sampson Street
- A portion of the site is utilized as part of the BAE Systems shipyard. Hazardous materials and wastes are stored at the site, and the southern portion of the site is to be used as a truck loading area for the San Diego Bay Cleanup Project.
- Based on the completion of the VESM, it is likely a VEC exists from on- and off-site historical uses.

9. OPINIONS

It is our opinion that this assessment has identified conditions indicative of releases or threatened releases of hazardous substances, pollutants, contaminants, and/or petroleum/petroleum products at the site.

9.1. Evaluation of Recognized Environmental Conditions

The rationale for concluding whether the conditions listed in Section 8, above, represent RECs, HRECs, or CRECs (i.e., the presence or likely presence of hazardous substances or petroleum products on a property due to any release to the environment, under conditions indicative of a release, or a material threat of a future release of hazardous substances, pollutants, contaminants, and/or petroleum/petroleum products at the site) is provided below.

- It is our opinon that the former use of the site by SDG&E for settling ponds, oil/water seperators, and cooling tunnels is considered a REC based on the documented presence of contaminants in soil, groundwater, and the cooling tunnel sediment.
- It is our opinion that the presence of numerous properties in the immediate site vicinity with unuathorized release cases is collectively considered a REC based on the potential to impact groundwater and sediment at the site.

- It is our opinion that the portion of the site currently used for storage of hazardous materials/wastes and as a truck loading area is considered a *de minimis* condition based on the absence of reported releases at the site, that the ship repair operations are not performed at the site, and that the BAE Systems facility is under regulatory oversight.

- It is our opinion that the VEC condition is considered a *de minimis* condition, based on the absence of permanent structures, vapor intrusion into the site building is unlikely.

9.2. Data Gaps

Significant data gaps that would affect the ability of the environmental professional to identify conditions indicative of releases or threatened releases were not encountered during this Phase I ESA.

9.3. Additional Appropriate Investigation

Our findings did not reveal evidence of conditions at the site posing an immediate threat to human health or the environment, or a reportable release, threatened release, or on-going release of a regulated substance at the site.

10. CONCLUSIONS

We have performed a Phase I ESA, in conformance with the scope and limitations of the ASTM Practice E1527-13, of the property located at 400 East Belt Street, San Diego, California. Any exceptions to, or deletions from this practice are described in Section 1.4 and in the body of this report. This assessment has revealed no evidence of RECs in connection with the property except for the following:

- From the 1950s to 1974, the former Silver Gate Power Plant utilized the site for settlement ponds (Ponds A and B), oil/water separators (Structures C and D), and Noble Lake, which was used for evaporation and settling of basement bilge water. Two circulating water tunnels, which extend from the power house (off-site) to the bay, traverse the site. Bay water was used as once-through, non-contact cooling water in the power plant and was transmitted via two intake and two discharge tunnels. Site assessments at the site have found TPH, VOCs, PAHs, PCBs, and metals in soil, groundwater, and sediment samples.

- The site's location in an area with a long history of industrial usage, indicates a higher likelihood of off-site releases from hazardous materials and/or petroleum products potentially impacting groundwater at the site. Facilities of potential concern identified in the surrounding area include the following adjacent industrial use properties with multiple unauthorized release cases:

    - BAE Systems (Southwest Marine) - 2205 East Belt Street
    - ISP Alginates (Kelco Division of Merk & Co.) - 2145 East Belt Street
    - Silvergate Power Plant (SDG&E Environmental Dept) - 1348 Sampson Street

11. NON-SCOPE SERVICES

The following services were performed at the request of the client, which are outside the scope of the Phase I ESA Standard Practice.

11.1. CEQA SIGNIFICANCE OF IMPACTS

The findings of this study and the proposed Pier 1 North Drydock Project were evaluated with respect to Questions A, B, and D of Section 8, "Hazards and Hazardous Materials" within Appendix G of the CEQA Guidelines for the proposed.

A. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

The Pier 1 North Drydock Project is anticipated to increase the quantity of spend abrasive, paint, rust, petroleum products, marine growth, and general refuse through an increase of maintenance and repair activity. However, all the wastes generated are contained and then transported to shore facilities for disposal. Environmental protections related to drydock operations include complete encapsulation of the vessel to prevent fugitive particle emissions, stormwater collection, and zero discharge of industrial wastewater.

The proposed drydock would extend onto the neighboring TUOP parcel. Based on the findings of this Phase I ESA, there is a moderate to high probability that hazardous materials or wastes are present at the site. Any soil or groundwater generated may result in a short-term increase of hazardous waste disposal. If hazardous materials or wastes are encountered during construction activities (e.g., contaminated soil and groundwater), there is low likelihood that the disturbance would create a significant hazard to the public or the environment, with the implementation of mitigation measures (Section 11.2).

B. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Based on the fact that hazardous materials or wastes are anticipated to be associated with the proposed project, there is a moderate likelihood that upset and accident conditions related to hazardous materials or wastes would be associated with implementation of the proposed project. However, implementation of mitigation measures (Section 11.2) would reduce the likelihood of a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.

D. Would the project be located on a site, which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would create a significant hazard to the public or the environment?

Government Code Section 65962.5 requires that Department of Toxic Substances Control (DTSC) compile a list of facilities/properties in the categories discussed below.

- *Hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code* - The DTSC has designated two facilities in the state of California that fall under this category. These two facilities are located outside of San Diego County.

- *Land designated as "hazardous waste property" or "border zone property"* - The DTSC has not designated any hazardous waste property or border zone properties pursuant to the provisions cited in the Health and Safety Code.

- *Properties with hazardous waste disposals on public land* - The DTSC does not maintain separate records of reports that relate to public lands/properties.

- *Hazardous substance release sites selected for (and subject to) a response action* - The sites that meet this criteria are listed on the "Cortese List" in the DTSC EnviroStor database, which graphically depicts facilities associated with cases with the DTSC and SWRCB. Ninyo & Moore's review of the databases identified the adjacent properties to the northwest, southeast, and north-northeast as substance release properties.

- *Sites included in the Abandoned Site Assessment Program* - The Abandoned Site Assessment Program was intended to include properties in "rural unsurveyed counties." The program concluded in the early 1990s, and properties in the program were transferred to the Cal-Sites database, which has been incorporated into the DTSC's current EnviroStor database. However, the EnviroStor database does not indicate whether a specific site was at one time included in the Abandoned Site Assessment Program and does not have a separate category for abandoned sites. Ninyo & Moore's review of the EnviroStor database, which graphically

depicts facilities associated with cases with the DTSC and SWRCB, did not indicate hazardous substance release properties within or adjacent to the site.

- *Sites with public drinking water wells that contain detectable levels of organic contaminants and that are subject to water analysis pursuant to Section 116395 of the Health and Safety Code* - Based on laws, regulations, and security policies adopted after September 11, 2001, the Department of Health Services no longer makes publicly available the locations of public drinking water wells due to concerns about illegal actions that could endanger public health and safety. In addition, there are currently no wells subject to water analysis pursuant to Section 116395 of the Health and Safety Code, because the analysis required by that Section was to be completed by 1988.

- *Sites with USTs for which an unauthorized release report is filed* - The SWRCB provides this information in its GeoTracker online database. Ninyo & Moore's review of the GeoTracker database identified the adjacent properties to the northwest, southeast, and north-northeast as properties with USTs for which an unauthorized release report was filed.

- *Solid waste disposal facilities from which there is a migration of hazardous waste* - The SWRCB maintains a list of facilities with waste constituents above hazardous levels outside the waste management unit. No such facilities were identified within San Diego County.

- *Sites with cease and desist orders and/or cleanup and abatement orders that concern the discharge of wastes that are hazardous materials* - Ninyo & Moore's review of the SWRCB list of properties with active cease and desist orders or cleanup and abatement orders identified the adjacent property to the southeast with a cleanup and abatement order for the San Diego Bay Cleanup Project.

Based on the information provided above, the site is located adjacent to three properties on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5

11.2. Mitigation Framework

The following mitigation framework measures relating to hazardous materials/wastes are provided.

- Subsurface disturbance activities should include implementation of a soil and groundwater management plan to address the possibility of encountering areas of potential environmental concern. The plan should be prepared by a qualified environmental consultant and should be implemented during subsurface disturbance activities by the contractor under the oversight of an environmental professional on behalf of the project proponent. The plan should address soil and groundwater monitoring, handling, stockpiling, characterization, reuse, export, and disposal protocols. The objective of the plan is to assist the contractor in the excavation, notification, monitoring, segregation, charac-

terization, handling, and reuse and/or disposal (as appropriate) of waste that may be encountered during earthwork activities.

- For areas with documented or suspected impacts to soil and/or groundwater, appropriate worker and community health and safety measures (e.g., dust control, air monitoring, stockpile management) should be implemented by the contractor during soil disturbance activities.

- Based on the potential impacts to soil from potential historical site uses, soil generated during construction activities may be considered a waste, and may require characterization (e.g., analytical testing) prior to reuse, export, or disposal.

- If contamination is discovered, notification to regulatory agencies and proper soil management may be required, particularly if there is the potential to affect public health, safety, and/or the environment.

12. REFERENCES

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Ninyo & Moore, 2011, Subsurface Investigation, San Diego Gas & Electric Tidelands Area, Belt Street and San Diego Bay, San Diego, California: dated February 28, revised May 24.

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13. PROFESSIONAL STATEMENT

As required by 40 CFR §312.21(d) and Section 12.13 of ASTM 1527-13, the following statement is included:

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined by §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Stephan A. Beck, PG 4375
Manager, Environmental Sciences Division

14. QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

Resumes, which document the professional qualifications, pursuant to 40 CFR §312.10(b)(2), of the persons that prepared and reviewed this report are provided as Appendix G.



SOURCE: ESRI WORLD TOPO, 2014.



MAP INDEX

N

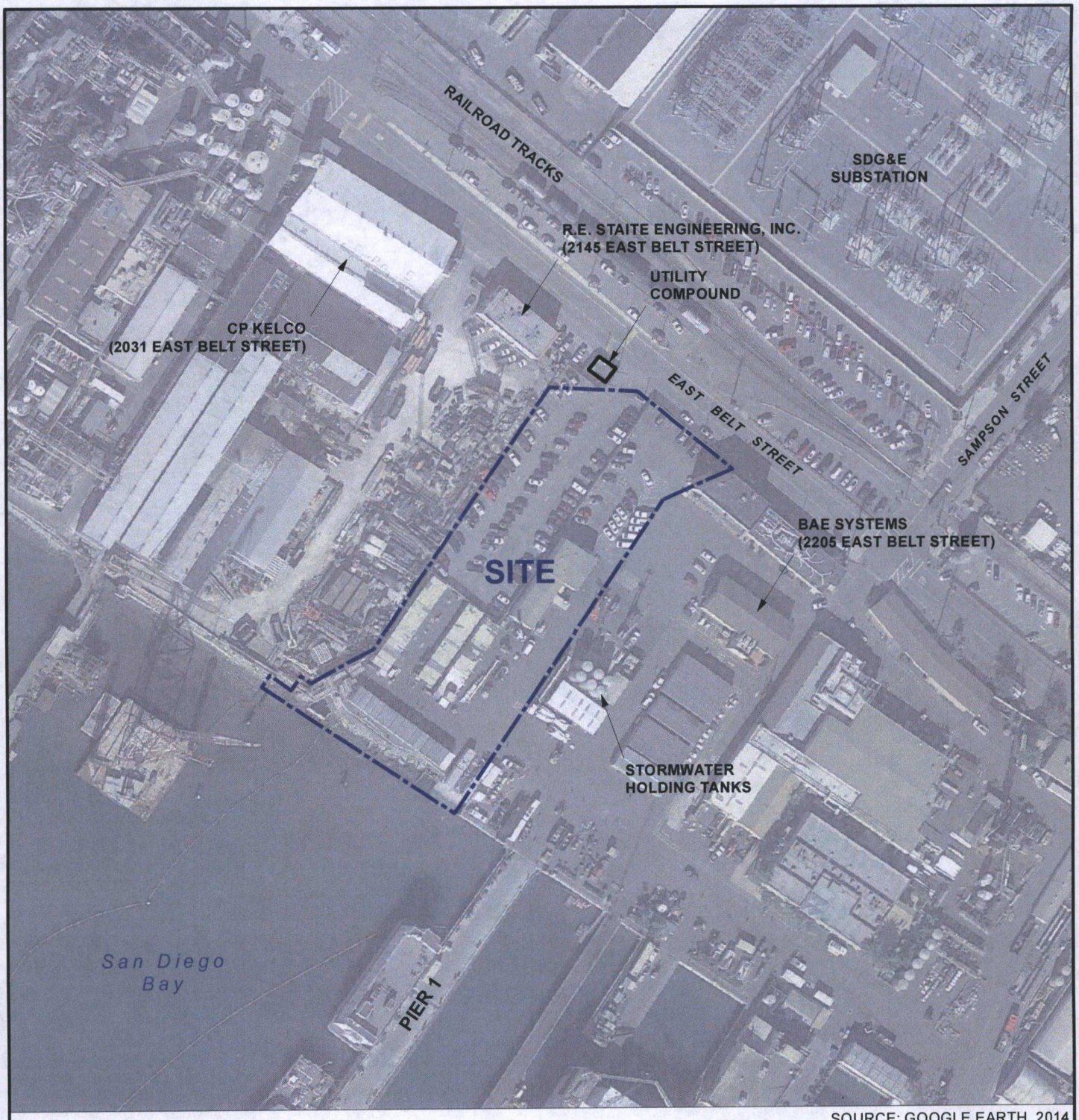
SCALE IN FEET

0 1,500 3,000

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore	SITE LOCATION	FIGURE
PROJECT NO. 107764001	DATE 11/14	1
	BAE SYSTEMS PIER 1N DRYDOCK STUDY 400 EAST BELT STREET SAN DIEGO, CALIFORNIA	

1_107764001_SL.mxd 11/3/2014 JDL



SOURCE: GOOGLE EARTH, 2014

LEGEND

PROJECT BOUNDARY

N

SCALE IN FEET

0 150 300

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore	SITE AND VICINITY	FIGURE
PROJECT NO. / DATE	BAE SYSTEMS PIER 1N DRYDOCK STUDY 400 EAST BELT STREET SAN DIEGO, CALIFORNIA	2
107764001 / 11/14		

2_107764001_SV.mxd 10/31/2014 JDL



LEGEND

- SITE BOUNDARY
- DIESEL AST (3)
- PROPANE AST

AST = ABOVE-GROUND STORAGE TANK

SOURCE: GOOGLE EARTH, 2014

N

SCALE IN FEET

0 80 160

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE.

3_107764001_SP.mxd 10/31/2014 JDL

Ninyo & Moore	SITE PLAN	FIGURE
PROJECT NO. 107764001 / DATE 11/14	BAE SYSTEMS PIER 1N DRYDOCK STUDY 400 EAST BELT STREET SAN DIEGO, CALIFORNIA	3

APPENDIX A

PHOTOGRAPHIC DOCUMENTATION

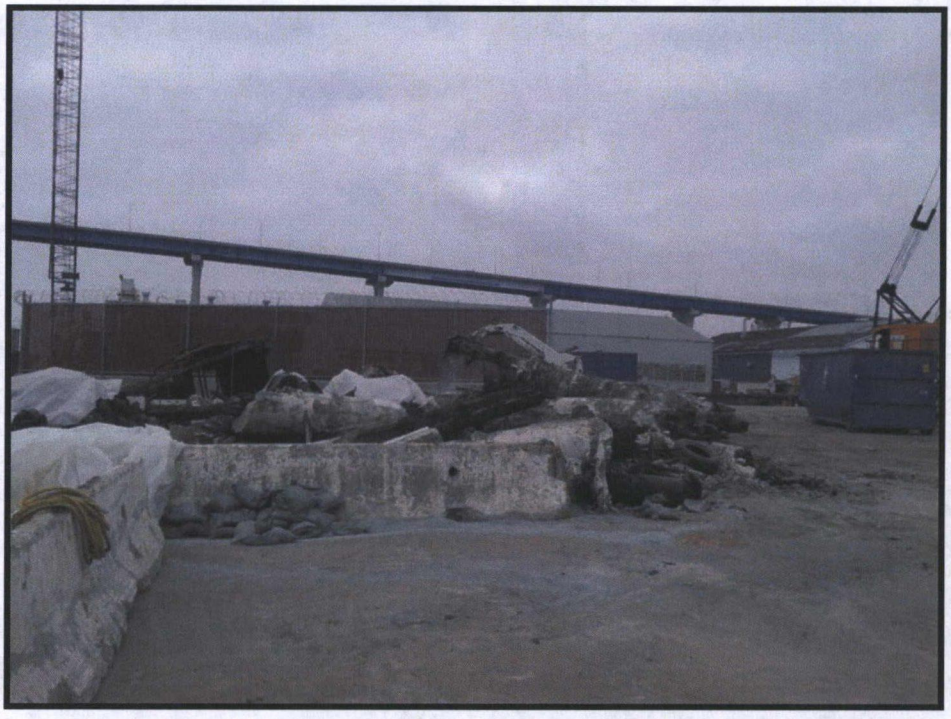


Photograph 1: **View of the site, facing southeast.**



Photograph 2: **View of the BAE Systems parking lot on the western portion of the site, facing northeast.**

63732 PAGE 813



Photograph 3: **View of the debris pile within the remediation area on the southwestern portion of the site.**



Photograph 4: **View of truck loading ramp within the remediation area on the southwestern portion of the site, facing southwest.**

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Photograph 5: **View of the truck wash area, within the remediation area on the southwestern portion of the site, facing northwest.**



Photograph 6: **View of remediation containers on the southwestern portion of the site, facing southeast.**

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Photograph 7: **View of hazardous materials storage area on the southeastern portion of the site.**



Photograph 8: **View of the hazardous waste and hazardous materials storage areas, located on the southeastern portion of the site.**

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Photograph 9: **View of the maintenance building, facing north.**



Photograph 10: **View of the propane AST and cylinders, located adjacent to the maintenance building.**

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Photograph 11: **View of the diesel ASTs, adjacent to the maintenance building.**

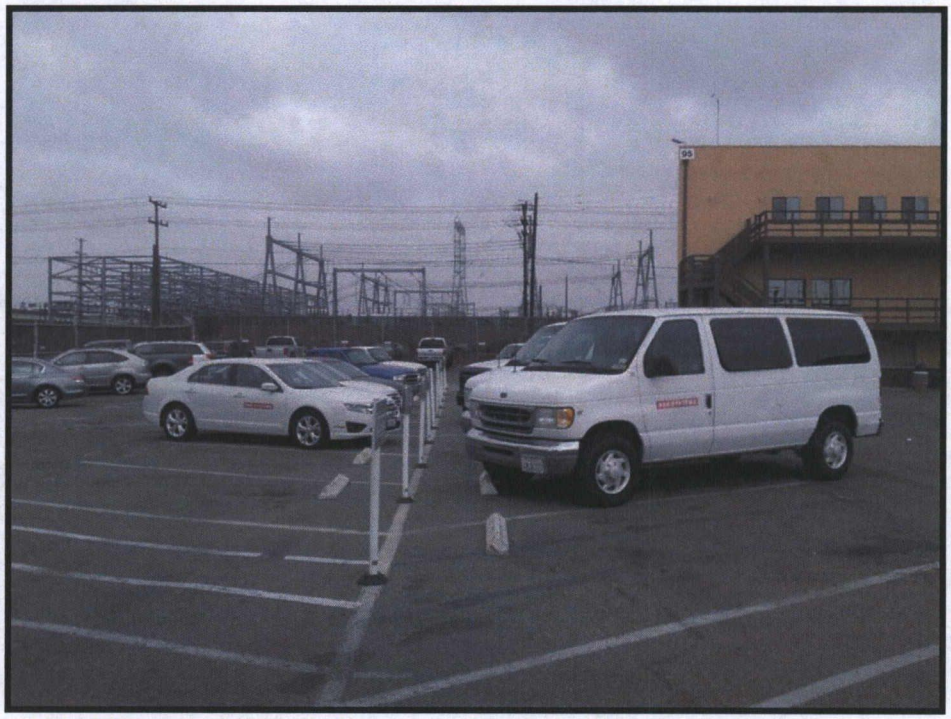


Photograph 12: **View of drum storage area within the maintenance building.**

63732 PAGE 818



Photograph 13: **View of cooling tunnel access vaults, located within the maintenance building.**

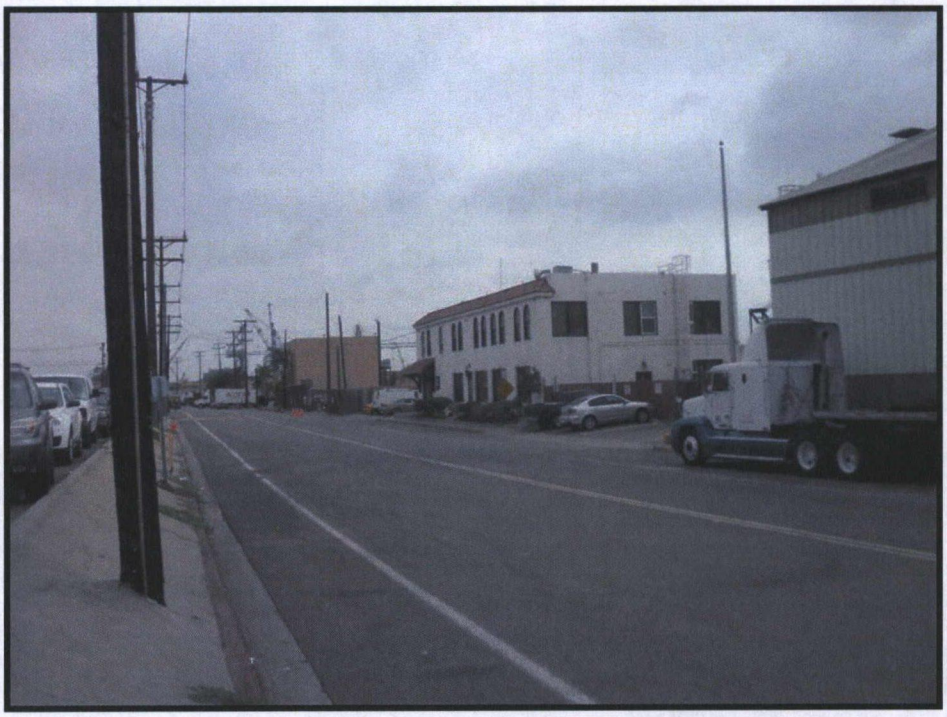


Photograph 14: **View of parking area within the ship yard portion of the site on the northeastern portion of the site.**

63732 PAGE 819



Photograph 15: **View of the railroad tracks followed by an SDG&E substation, north of the site.**



Photograph 16: **View of adjacent property to northwest (2145 Belt Street), taken along Belt Street, facing southeast.**

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Photograph 17: **View along Belt Street, facing southeast.**



Photograph 18: **View to the south of the site, facing south-southwest.**

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APPENDIX B

USER- AND CLIENT-PROVIDED INFORMATION

INTERVIEWS

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Name / Address	**BAE Systems Pier 1N Dry Dock & ~~Cooling Tunnel Removal Project~~ 400 East Belt Street San Diego, California**	**Project No.**	**107764001**

***Please answer *in good faith and to the best of your ability* and elaborate as much as possible on any question answered "yes."**

THE INFORMATION PROVIDED BELOW IS NOT RELATED TO THE COOLING WATER REMOVAL PROJECT

General Environmental

1) Describe the current uses of the site. How long has the site been used for these purposes?

This information has already been provided or is otherwise available in the CAO EIR and Pier 4 replacement project EIR.

2) Describe the structures previously present at the site and their usage/occupants and age.

BAE Systems is not familiar with any "previous" structures.

3) When were the structures constructed, if known?

4) What is the historical land use of the site? Describe the past uses, owners, and operators of the site. (Be as detailed as possible and note approximate time periods, if known.)

Maritime industrial, including ship/boat building and repair going back to approximately 1915.

5) Are there currently, or were there previously any underground storage tanks (USTs) at the site? If so, please describe their capacities and contents.

1. At the foot of the former Pier 4 location, there was a 1,000 gallon UST that was converted into a sewage lift station in about 1987, when then SWM took over that portion of the site from the former tenant, National Pump and Injector. This UST/sewer lift station was removed in 2013 as part of the Pier 4 modernization project.
2. In about 1997, at the foot of the Pier 3 Gantry Tracks, a 10,000 gallon diesel UST was closed in place.
3. In about 1987, a 12,000 gallon gasoline UST was installed on the north end of the site. This UST was removed in 2012.
4. In about 1997, a 12,000 gallon diesel UST was installed on the north end of the site, adjacent to the gasoline UST. This tank was removed at the same time the gasoline UST was removed (2012).

6) Have all USTs been removed from the site? If so, when?

Except for the UST closed in place (No 2 above), no known UST exist at the site.

Site Name / Address	**BAE Systems Pier 1N Dry Dock & ~~Cooling Tunnel Removal Project~~ 400 East Belt Street San Diego, California**	Project No.	**107764001**

7) Was associated underground piping associated with the USTs removed?

   Yes, except for the piping associate with item 2 above. This piping (2") was slurry filled with the tank and closed in place. The line ran from the UST to the head of Pier 3 on the south side.

8) Was soil and/or groundwater sampling conducted at the time of UST removal? If so, please describe.

   Yes. Under the oversight of the DEH and documented accordingly.

9) Are you aware of any environmental issues associated with the site or of potential soil and/or groundwater contamination?

   [XXX] Yes [ ] No

During certain excavation activities associated with the Pier 4 Replacement Project, petroleum and lead contaminated soil was encountered. The Port of San Diego was notified of such events. (See reports)

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Name / Address	BAE Systems Pier 1N Dry Dock & ~~Cooling Tunnel Removal Project~~ 400 East Belt Street San Diego, California	Project No.	107764001

10) Have fill soils been brought to the property?

[X] Yes [ ] No [ ] Unknown

11) Has there been storage of hazardous materials or wastes on the property?

[X] Yes [ ] No [ ] Unknown

12) Have any of the following items been stored on the site in containers greater than 5 gallons?

Paint [ ] Yes [X] No [ ] Unknown
Chemicals [X] Yes [ ] No [ ] Unknown
Pesticides/Herbicides [ ] Yes [X] No [ ] Unknown
Automotive-Related Oils/Fuels [X] Yes [ ] No [ ] Unknown

13) Have there been any spills or releases of chemicals, hazardous substances, or wastes on the property?

[X] Yes [ ] No [ ] Unknown

14) Have any hazardous substances, petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or other waste materials been dumped aboveground, buried, or burned on the site?

[ ] Yes [X] No [ ] Unknown

15) Is the site hooked up to a municipal sanitary sewer system or is there a septic tank/system?

[X] Sanitary Sewer [ ] Septic

16) Are/were there any subsurface wastewater features, such as sumps, clarifiers, discharge systems, at the site?

[X] Yes [ ] No [ ] Unknown

17) Does the site discharge wastewater, other than domestic wastewater or storm water, into the sewer or onto another property?

[X] Yes [ ] No [ ] Unknown

18) Other than permission for domestic hookup, have any city, county, or other permits for wastewater discharge been issued to the site?

[X] Yes [ ] No [ ] Unknown

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Name / Address	**BAE Systems Pier 1N Dry Dock & ~~Cooling Tunnel Removal Project~~ 400 East Belt Street San Diego, California**	Project No.	**107764001**

19) Is there a transformer, capacitor, or other equipment that may contain PCBs on the site?

[ ] Yes [X] No [ ] Unknown

20) Other than small quantities of legal pesticides used for landscape maintenance (e.g., Roundup), have pesticides, herbicides, or insecticides been applied on the site?

[ ] Yes [X] No [ ] Unknown

21) Are/were there any wells on the site (e.g., water supply wells, groundwater monitoring wells, etc.)

[X] Yes [ ] No [ ] Unknown

22) Are there currently, or were there previously, any pits, ponds, or lagoons on the site?

[ ] Yes [X] No [ ] Unknown

23) Are there currently, or were there previously, areas on the site with stained soil?

[ ] Yes [X] No [ ] Unknown

24) To your knowledge, have adjoining properties been used for industrial activities, such the following? (Please note that an adjoining property is a property that is contiguous with, or directly across the street from the site.)

Gasoline Station [ ] Yes [X] No [ ] Unknown
Printing Facility [ ] Yes [X] No [ ] Unknown
Metal Plating/Manufacturing [X] Yes [ ] No [ ] Unknown
Landfill [ ] Yes [X] No [ ] Unknown
Auto Repair Facility [ ] Yes [X] No [ ] Unknown
Dry Cleaners [ ] Yes [X] No [ ] Unknown
Junkyard [ ] Yes [X] No [ ] Unknown
Waste or Wastewater Treatment [ ] Yes [X] No [ ] Unknown
Storage, Disposal, or Recycling Facility [ ] Yes [X] No [ ] Unknown

25) Are there any known issues related to spills/contamination with adjoining or nearby properties?

[X] Yes [ ] No [ ] Unknown

26) Are you aware of any previously prepared documentation for the site, such as:

- environmental sampling, compliance audit, or assessment reports
- environmental permits
- registrations for aboveground or underground storage tanks
- material safety data sheets (MSDS)
- community right-to-know plans
- safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans
- geotechnical or hydrogeologic reports

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Name / Address	BAE Systems Pier 1N Dry Dock & ~~Cooling Tunnel Removal Project~~ 400 East Belt Street San Diego, California	Project No.	107764001

- storm water documents
- risk assessments
- hazardous waste generator notices?

(If so, are they available for review?)
Yes. A myriad of documents related to all of the above.

Legal/Activity and Use Limitations

27) Are you aware of any environmental cleanup liens or activity and use limitations such as engineering controls, land use or deed restrictions or institutional controls associated with the site that are filed or recorded under federal, tribal, state, or local law?

[X] Yes [ ] No

28) Are you aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?

[X] Yes [ ] No

29) Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

[ ] Yes [X] No

_____ _____
NAME (IN PRINT) DATE

_____
SIGNATURE

[ ] Owner [ ] Occupant [ ] Owner Representative [ ] Other:

***When complete, return questionnaire via email, fax, and/or mail to the following:**
Mr. Adrian Olivares
Senior Project Environmental Scientist
Ninyo and Moore
5710 Ruffin Road
San Diego, California 92123
aolivares@ninyoandmoore.com
(858) 576-1000 Office
(858) 576-9600 FAX

PROPERTY BACKGROUND INFORMATION QUESTIONNAIRE

Site Name / Address	**BAE Systems Pier 1N Dry Dock & ~~Cooling Tunnel Removal Project~~ 400 East Belt Street San Diego, California**	**Project No.**	**107764001**

Adrian Olivares

From: Kelly Czechowski [Kelly.Czechowski@lsa-assoc.com]
Sent: Monday, September 22, 2014 2:54 PM
To: Adrian Olivares
Cc: Ashley.Davis@lsa-assoc.com; David Atwater
Subject: FW: Pier 1N Drydock (Sharepoint Log In)

Hi Adrian,

Shaun forwarded over some answers to the questionnaire – although he did mention that much of the information could be found in past studies conducted. Would you be able to pull any of the info you seek from the past reports done for the property? All the reports we have are posted on the Sharepoint site in the Cooling Tunnels Reference folder.

I will also check with Larry to see if there is anything else he can provide. Thanks!

Best Regards,

Kelly Czechowski
Senior Environmental Planner
LSA Associates, Inc.
703 Palomar Airport Road, Suite 260
Carlsbad, CA 92011
(760) 931-5471

From: Kelly Czechowski [mailto:Kelly.Czechowski@lsa-assoc.com]
Sent: Tuesday, September 16, 2014 10:40 AM
To: lhofreiter@portofsandiego.org; Halvax, Shaun (US SSA)
Cc: Ashley.Davis@lsa-assoc.com; David Atwater; aolivares@ninyoandmoore.com
Subject: FW: Pier 1N Drydock (Sharepoint Log In)

Hi Larry and Shaun,

Please find attached the Phase 1 ESA Questionnaire that Ninyo & Moore has sent over. We will need these questionnaires filled out as part of the Phase 1 ESA being done for the TUOP parcel as noted in Adrian's email below. Please let us know if you have any questions or comments. Thank you!

Best Regards,

Kelly Czechowski
Senior Environmental Planner
LSA Associates, Inc.
703 Palomar Airport Road, Suite 260
Carlsbad, CA 92011
(760) 931-5471

From: Adrian Olivares [mailto:aolivares@ninyoandmoore.com]
Sent: Thursday, September 11, 2014 7:33 AM
To: Kelly Czechowski; Stephan Beck
Subject: RE: Pier 1N Drydock (Sharepoint Log In)

Hi Kelly,

As requested, please see the attached Phase I ESA questionnaires. The user questionnaire should be completed by the party requesting the Phase I ESA and the property background questionnaire should be completed by the property owner and tenant.

Thanks,

Adrian Olivares
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 x 11257
(858) 576-9600 (Fax)
aolivares@ninyoandmoore.com
Experience . Quality . Commitment

APPENDIX C

ENVIRONMENTAL DATABASE REPORT

USER-PROVIDED INFORMATION

SAN DIEGO
WATER QUALITY
CONTROL BOARD

2004 JUL 15 P 3:18

SITE ASSESSMENT REPORT
LANDSIDE TIDELANDS LEASE AREA
SILVER GATE POWER PLANT
San Diego, California
July 14, 2004

PREPARED FOR:

SAN DIEGO GAS AND ELECTRIC COMPANY
555 West Fifth Street
Los Angeles, California 90013-1011

PREPARED BY:

ENV America Incorporated
2247 San Diego Avenue, Suite 135
San Diego, California 92110
ENV America Project No. SDG-01-T002.420

ENV AMERICA

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Exhibit B	Boring Logs
Exhibit C	Permits
Exhibit D	Analytical Laboratory Report and Chain of Custody Record

SITE ASSESSMENT REPORT
LANDSIDE TIDELANDS LEASE AREA
SILVER GATE POWER PLANT
San Diego, California

ACKNOWLEDGMENT AND SIGNATURE PAGE

This Site Assessment Report was prepared by ENV America Incorporated (ENV America) on behalf of the San Diego Gas and Electric Company (SDG&E).



Thomas J. Mulder, R.G., C.E.G., C.HG.
Senior Project Manager, ENV America Incorporated

7-14-2004
Date

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DISCLAIMER

This Site Assessment Report of the Tidelands Lease Area at Silver Gate power Plant (Report) was prepared for the sole use and benefit of the San Diego Gas and Electric Company (Client) and for the specific Site known as Silver Gate Power Plant Landside Tidelands Lease Area, located at the foot of Sampson Street, San Diego, California 92113. Neither this Report, nor any of the information contained herein, shall be used or relied upon for any purpose by any person or entity other than the Client and for the Site.

ENV America makes no warranty as to the accuracy of statements made by others which are contained in this Report, nor are any other warranties or guarantees, express or implied, included or intended in this Report with respect to information supplied by outside sources or conclusions or recommendations substantially based on information supplied by outside sources. This Report has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services.

None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

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1.0 INTRODUCTION

1.1 General Project Description

This Site Assessment Report (Report) was prepared by ENV America Incorporated (ENV America), on behalf of the San Diego Gas and Electric Company (SDG&E), to investigate possible soil and groundwater impacts related to past use of wastewater ponds located southwest of the Silver Gate Power Plant in San Diego, California (Figures 1 and 2).

This Report summarizes the results of an investigation conducted in accordance with the *Workplan for Site Assessment, Former Wastewater Ponds, Silver Gate Power Plant* (Workplan) (ENV America, 2002). This investigation was conducted to determine if adverse residual chemical impacts exist below two former ponds. The investigation scope of work included the collection and analysis of soil and water samples from seven hydraulic–push borings. Eight borings were originally proposed; however, only seven were drilled due to access restrictions. Field activities were conducted in August 2003.

1.2 Site Location and Description

The area of interest (the Site) is located between Belt Street and San Diego Bay, at the foot of Sampson Street, southwest of the Silver Gate Power Plant in the City of San Diego (City), California (Figures 1 and 2). The property has Assessors Parcel Number 760-022-06.

SDG&E leases the land from the Port of San Diego (Port). Exhibit A includes a copy of SDG&E's Use and Occupancy Agreement, which describes the legal boundaries of the land that SDG&E leases from the Port. The current occupants of the Site are Southwest Marine and ISP Alginates. Southwest Marine and ISP Alginates occupy the Site via sublease agreements.

1.3 Objectives

The primary objective of this investigation was to characterize the potential residual contamination that may be present on the Site due to former wastewater pond operations. In the next few years, SDG&E plans to disassemble and remove the power

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plant, and SDG&E plans to terminate the associated leases of adjacent properties, including the Site. As part of terminating these leases, SDG&E intends to restore the properties to a condition that is mutually agreeable to SDG&E and the property owners. SDG&E requested that ENV America conduct this site assessment to determine Site conditions, to aid in determining if Site conditions warrant restoration activities.

2.0 BACKGROUND INFORMATION

This investigation focused on potential impacts from the two former wastewater ponds located on the Site. The ponds were identified in historical documents and are referred to here and in the site investigation workplan (ENV America 2002) as Pond A and Pond B.

After the site investigation field work was completed, a number of additional historical photographs were obtained, which indicated that there were two additional wastewater structures on the Site. The additional wastewater structures apparently were oil/water separators. We have named these features Structure C and Structure D.

The following section provides a brief history of the Silver Gate Power Plant operations relating to the Site.

2.1 Plant Operations and History

The Silver Gate Power Plant includes four electric generating units contained within a powerhouse. The power house contains six boilers which supplied steam to four steam turbine generating units, known as Units 1 through 4. The Silver Gate Power Plant was built between 1943 and 1952, and operated until the mid-1980s. All of the power plant's operating permits and licenses have expired.

The plant operated almost continuously from 1943 to 1974. The power plant was used intermittently after 1974 to meet peak demands, but generally ran at minimal capacity. The boilers initially burned fuel oil, and in later years were converted to burn both natural gas and fuel oil.

Water from the bay was used as once-through, non-contact cooling water in the power plant. The cooling water was transmitted via four tunnels (two intake tunnels and two discharge tunnels) constructed upon land that SDG&E leased from the Port and the Atchison, Topeka and Santa Fe (AT&SF) Railway. Each of the four tunnels had cross-sectional dimensions of approximately 8 feet wide by 8 feet tall. The non-contact cooling water was passed through tube-type condensers to condense the steam.

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The power plant and associated switchyard and substations are located on property owned by SDG&E. The circulating water tunnels (CW tunnels) are located on leased land (Figure 2).

The leased land comprises the following parcels.

AT&SF Railway Land

- Land that is currently occupied by parking lots and railroad tracks

Port Land

- Parcel 1, land that is currently occupied by Belt Street
- Parcel 2, land that is currently occupied by ISP Alginates, Inc., a chemical manufacturer, and Southwest Marine, a shipyard
- Parcel 3, a wharf lease (submerged tidelands).

2.2 History of Wastewater Operations on Parcel 2

This Section describes the wastewater operations on Parcel 2.

Historical photographs were obtained from SDG&E, the San Diego Historical Society and the County of San Diego Department of Planning and Land Use Cartography Department. Copies of the historical photographs are included in Exhibit A. The photographs indicate that there were two wastewater ponds and two subgrade oil/water separators on Port Parcel 2.

- Wastewater settling/evaporation ponds
  - Pond visible in photographs from 1952 (herein named Pond "A")
  - Pond visible in photographs from 1966 to 1973 (Pond "B")
- Oil/water separator structures
  - Structure visible in photographs from 1950 to 1952 (herein named Structure "C")
  - Structure visible in photographs from 1959 (Structure "D")

The photographs allowed us to plot the locations these four structures on a scaled site map (see Figure 2). The photographs from 1952 also indicate a surface spill occurred in 1952 when a plug in piping led to overflow of liquid onto adjacent ground.

An illustration prepared by Southwest Marine Construction Company in 1970 (see Exhibit A) showed a proposed ship haul-out that was to be constructed over Pond B. Aerial photographs indicate that the planned structure was not built.

An internal SDG&E memorandum from 1974 described Pond B as an oil-water settling pond, and included a drawing that illustrated how the pond received wastewater from the bilge trenches of the power house. The memo stated that the pond had reached its capacity; therefore, the memo concluded that it could not be relied upon for future use and proposed alternatives. In 1977, SDG&E completed construction of a wastewater treatment plant. Many plant documents indicate that this plant was used to treat bilge wastewater from the power plant. The records indicate that use of Pond B ceased circa 1974.

Today there is no visible surface evidence of the former ponds and structures.

2.3 Geology and Hydrogeology

The following description of geology and hydrogeology is in part based on a recent geotechnical investigation of Belt Street (Allied Geotechnical Engineers, 2000).

Belt Street follows the former Bay shoreline. In the 1930s the land southwest of Belt Street was created by placement of fill dredged from the Bay (see historical photographs in Exhibit A). Consequently, the shallow geology northeast of Belt Street is different from the shallow geology southwest of Belt Street.

Northeast of Belt Street, there are three shallow stratigraphic units:

- Variable thickness of fill soil
- Five to 10 feet of alluvium/colluvium
- Pleistocene terrace deposits (also known as the Bay Point Formation).

The alluvium and colluvium are generally described as tan to gray, dense silty sand. The Pleistocene terrace deposits are described as brown to gray brown, poorly cemented, dense to very dense silty sand.

The fill deposits south of Belt Street are reportedly hydraulically dredged Bay material. Allied Geotechnical Engineers (2000) described the Bay deposits below Belt Street as medium to dark gray, loose to dense silty sand with occasional layers of organic–rich material, lean sandy clay, and shell fragments.

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The property and surrounding area are located within the Chollas Hydrologic Sub Area (HSA 8.22), which is designated as a non-beneficial groundwater use area by the San Diego Regional Water Quality Control Board (RWQCB).

Field observations of Parcel 2 indicate that the surface soil is a silty fine sand with shell fragments. Underlying fill soil, as recorded on boring logs in Exhibit A, is generally poorly graded sand with shell fragments. The depth to groundwater in Parcel 2 was approximately 10 feet below ground surface (bgs) in August 2003.

2.4 Site Conceptual Model

Based on the six borings advanced through the locations of the former ponds and one boring advanced adjacent to the former Pond B, each pond generally has the following stratigraphy:

- 0 to 6 inches bgs: Pavement
- 6 inches to 3 feet bgs: Fill soil
- 3 to 5 feet: minor staining of fill soil possibly from pond operations (Pond B only)
- 5 to 20 feet bgs: Fill soil
- >20 feet bgs: Beach and near-shore sediments (not confirmed during drilling)

Cross-sections A-A' and B-B' depict the subsurface beneath the former wastewater Ponds A and B. Cross-section locations are shown on Figure 3 and cross-sections A-A' and B-B' are on Figure 4.

The potential receptors of concern are industrial workers or construction workers, who could be exposed to soil by subsurface excavation activities; and the Bay, which could be impacted by potential lateral migration of groundwater.

3.0 SUMMARY OF SITE INVESTIGATION ACTIVITIES

3.1 Overview

The Site investigation was conducted in accordance with a Workplan prepared by ENV America (2002). Of the eight proposed boring locations, only seven were advanced due to access restrictions. Fieldwork was conducted on August 7, 2003.

3.2 Preliminary Activities

A Site visit was performed prior to the initiation of drilling to reconnoiter the proposed work area. To minimize the potential for damage to underground utilities, Underground Service Alert (commonly referred to as "USA" or "Dig Alert") was notified so that local utilities could mark underground lines in the Site vicinity. A geophysical survey was conducted to identify any obstructions or utilities in the area of the borings.

Permits were secured from the County of San Diego Department of Environmental Health and the Port of San Diego. Copies of the permits are included in Exhibit C.

3.3 Sampling Methodology

Seven of the eight proposed boreholes were advanced directly below or adjacent to the footprint of the two former ponds for the purposes of soil sample collection and groundwater investigation (Figures 2 and 3). Access restrictions prevented drilling at one of the proposed locations. The borings were advanced using a direct-push drill rig. Gregg Drilling and Testing, Inc., of Signal Hill, California, provided a Marl 5T, rubber track-mounted drill rig and support vehicles.

A garage-type building is located within the footprint of Pond B; therefore, one boring was advanced immediately northwest of the footprint of Pond B. Each boring was cored continuously for lithologic logging purposes. The borings were advanced to approximately 5 feet below the water table (a total depth of approximately 16 feet bgs). A California Registered Geologist (RG) logged soils in general accordance with American Society of Testing and Materials (ASTM) Method Number D2488-90, Description and Identification of Soils (*Visual-Manual Procedure*). The soil samples were used for subsequent analytical testing, as well as for lithologic interpretations. The

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lithologic conditions encountered during drilling are described in the boring logs in Exhibit B.

Soil headspace samples were collected in resealable plastic bags at 1 to 5 foot intervals and screened with a photo ionization detector (PID) to assist in selection of soil samples for laboratory submittal. Based on the results of the headspace readings and visual observations, three soil samples were retained from each boring (one sample from the shallow fill above the former pond bottom, one sample from the approximate depth of pond sediments, and one sample from the soil underlying the pond sediments) and submitted to a fixed-base analytical laboratory to determine the concentration of constituents of concern. Sample selection was biased to include any stained or odorous soils.

Each sample submitted to the laboratory was identified with a two-unit designation such as B2-2.0. The first unit indicates the borehole number (B2) and the second unit indicates the sample depth (e.g., 2.0 feet below ground surface [bgs]). Soil samples were collected in acetate sleeves and capped with Teflon®-lined caps, labeled, entered into chain-of-custody, and stored on ice in a cooler.

One groundwater sample was collected from each boring in laboratory-supplied, pre-cleaned, pre-preserved containers. Samples were collected using a peristaltic pump and disposable tubing within new PVC pipe and screen. Samples for metals analysis were field filtered using a 45-micron filter. Each sample submitted to the laboratory was identified with a two-unit designation such as B2-080703. The first unit indicates the borehole number (B2) and the second unit indicates the sample date. Sample bottles were labeled, entered into chain-of-custody, and stored on ice in a cooler.

Each boring was backfilled with medium bentonite chips, hydrated with potable water; and the pavement was patched using cold-patch asphalt, to match existing conditions.

3.4 Quality Control Samples

Quality control (QC) samples included one groundwater duplicate (duplicate of sample B2-080703 was labeled B9-080703) and one trip blank (TB-080703). In addition, sufficient volume was collected for laboratory QC samples.

Because disposable sampling equipment was used, no equipment blank samples were collected.

3.5 Equipment Decontamination

To prevent cross-contamination between samples and borings, routine precautions were implemented. These precautionary measures included decontaminating sampling equipment, and using a three-bucket wash between each sample drive. All drilling equipment (e.g., continuous core samplers, drilling rods) was decontaminated by washing with a non-phosphate detergent, rinsing with potable water, and rinsing with deionized water.

Disposable equipment such as nitrile gloves and bailers were discarded between samples. In most cases, pre-cleaned disposable samplers were used (e.g., acetate sleeves and tubing).

3.6 Investigation-derived Waste

Since the drilling method was direct push, no soil cuttings were generated. Investigation derived waste (IDW) consisted of one 5-gallon bucket of water generated during decontamination of equipment. The water was taken by the drillers back to their shop to be combined with other wastewater, batched, sampled, and disposed of properly.

3.7 Worker Health and Safety

Worker health and safety was addressed in a Site-specific Health and Safety Plan [ENV America 2003]. All Site work was conducted in accordance with the Site-specific Health and Safety Plan.

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4.0 ANALYTICAL TESTING

4.1 Analytical Program

All samples collected from the Site were submitted under chain of custody (COC) to American Environmental Testing Laboratory, Inc. (AETL), of Burbank, California. AETL is certified by the State of California, Department of Health Services' Environmental Laboratory Accreditation Program (ELAP).

Soil and groundwater samples collected from the borings were analyzed for one or more of the following: total petroleum hydrocarbons within the gasoline, diesel, and heavy hydrocarbon ranges (TPH-g, TPH-d, and TPH-h, respectively) by USEPA Method 8015 (modified); polychlorinated biphenyls (PCBs) using USEPA Method 8082; volatile organic compounds (VOCs) by USEPA Method 8260; semi volatile organic compounds (SVOCs) by USEPA Method 8270; and, Title 22 metals by USEPA Method series 200.7/6010/7000. The chemical analyses were consistent with those proposed in the Workplan. The laboratory reports and COC records are presented in Exhibit D. Soil and groundwater analytical results are summarized in Tables 1 and 2, respectively.

4.2 Soil Sample Analytical Results

All 21 soil samples were initially analyzed for TPH-d and TPH-h. Additional analyses (TPH-g, VOCs, SVOCs, PCBs, and metals) were then requested for the sample from each boring with the highest preliminary TPH-d and TPH-h results. Since preliminary results showed that Boring B8 had no detectable concentrations for TPH, no additional analyses were requested. However, Sample B8-10 was analyzed for VOCs due to laboratory error in reading the COC instructions. Soil analytical results are summarized in Table 1, and laboratory reports are included as Exhibit D.

TPH Results

Total petroleum hydrocarbon soil results for gasoline, diesel, and heavy hydrocarbons ranged from non-detectable to 46.5, 1960, and 5360 milligrams per kilogram (mg/kg), respectively. The highest soil TPH results for all three ranges were found in Boring B2 at 2.0 feet bgs. Analytical results for TPH-g, TPH-d, and TPH-h are summarized in Figure 5.

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VOC Results

Seven soil samples, one from each boring, were analyzed for VOCs. Only soil one sample, B2-2.0, had VOC concentrations which exceeded the practical quantitation limit (PQL) for the method.

SVOC Results

Six soil samples were analyzed for SVOCs. Concentrations above the method detection limit (MDL) were not detected for samples B3-4.0 and B7-2.0. Of the remaining soil samples, the highest concentrations were found in Samples B2-2.0 and B6-2.0.

PCB Results

Six soil samples were analyzed for PCBs. Four of the six soil samples analyzed did not report PCB concentrations above the MDL. Only two of the Aroclors were detected above the MDL. Aroclor-1254 was reported at concentrations ranging from non-detectable to 2,800 micrograms per kilogram (ug/kg). Aroclor-1260 concentrations ranged from non-detectable to 1,600 ug/kg.

Metals Results

Six soil samples were analyzed for Title 22 metals. The metals antimony, arsenic, beryllium, cadmium, mercury, selenium, silver, and thallium were not detected in any sample. Chromium was reported at concentrations ranging from 5.5 mg/kg in Boring B3 at 4.0 feet bgs to 4,220 mg/kg in Boring B2 at 2.0 feet bgs. Lead concentrations ranged from non-detectable to 520 mg/kg in Boring B4 at 3.0 feet bgs.

4.3 Groundwater Sample Analytical Results

All eight groundwater samples (including one duplicate) submitted to the laboratory were analyzed for TPH-g, TPH-d, TPH-h, VOCs, SVOCs, PCBs, and metals. SVOCs and PCBs were not detected in any of the groundwater samples. Concentrations of TPH, VOCs, and metals are discussed below. Groundwater analytical results are summarized in Table 2, and laboratory reports are included as Exhibit D.

TPH Results

TPH-g concentrations ranged from non-detectable (6 samples) to 45.9 micrograms per liter (ug/L) in Boring B5. TPH-d and TPH-h concentrations were not detected above the PQL in any of the samples analyzed. Analytical results for TPH-g, TPH-d, and TPH-h are on Figure 6.

VOC Results

VOC concentrations for groundwater samples from Borings B2, B3, B4, and B8 did not exceed the PQL. Samples from Borings B5, B6, and B7 contained several detectable compounds, most of which were chlorinated hydrocarbons.

Metals Results

The metals antimony, arsenic, beryllium, cadmium, lead, mercury, selenium, silver, and thallium were not detected in any sample. With the exception of barium and nickel, metals were not detected at concentrations exceeding the PQL.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The objective of this investigation was to evaluate potential environmental impacts from former wastewater ponds associated with the Silver Gate Power Plant. The approximate locations of the former ponds were identified using historical aerial photos and maps. Data generated from borings located within and around the former waste ponds indicated that Pond A soil contained low concentrations of organic compounds, including TPH in the diesel and heavy oil range, and SVOCs. However, none of the soil samples from Pond A contained detectable VOCs, PCBs, or appreciable metals. Soil data from Pond B showed the presence of organic and metal analytes. The occurrence of shallow soil contaminants was generally coincident with what was visually identified to be the base of the former ponds. Hydrocarbon soil concentrations typically decreased rapidly with depth, indicating limited vertical migration. Maximum TPH concentrations were below the "Petroleum Residual NAPL Saturation" concentrations referenced in the County of San Diego SAMD manual. Chromium and benzo(a)anthracene were detected in one sample from Pond B soil at concentrations above US EPA industrial Preliminary Remediation Goals (PRGs).

Groundwater beneath the site was sampled through temporary PVC screens that were placed in the borings. Low hydrocarbon concentrations were detected in both Pond A and B areas. No SVOCs or PCBs were detected in groundwater. Volatile compounds including chlorinated solvents were detected in groundwater; however, there are no local numerical standards for non-beneficial use areas. All solvent compound concentrations were well below the applicable US EPA National Recommended Ambient Water Quality Criteria for Saltwater Aquatic Life Protection numerical standards. Based on these criteria, groundwater quality beneath the former Ponds meets regulatory criteria.

6.0 REFERENCES

ENV America. 2002. *Workplan for Site Assessment, Former Wastewater Ponds*, Silver Gate Power Plant, 1348 Sampson Street, San Diego, California. Prepared for San Diego Gas and Electric Company. August 21, 2002.

ENV America. 2003. *Health and Safety Plan for Groundwater Monitoring and Site Investigation Activities*, Silver Gate Power Plant, 1348 Sampson Street, San Diego, California. Prepared for San Diego Gas and Electric Company. August 2003.

TABLES

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TABLES

Table 1
Soil Analytical Results
San Diego Gas and Electric
Silver Gate Power Plant
Tidelands Lease
Sampled August 7, 2003
Page 1 of 2

Sample I.D.		B2-2.0	B2-3.0	B2-8.0	B3-2.0	B3-4.0	B3-9.0	B4-3.0	B4-4.0	B4-9.0	B5-2.0	B5-4.0	B5-9.0	B6-2.0	B6-3.0	B6-8.0	B7-2.0	B7-4.0	B7-8.0	B8-2.0	B8-4.0	B8-10.0	Industrial PRG*
Depth (ft.)		2	3	8	2	4	9	3	4	9	2	4	9	2	3	8	2	4	8	2	4	10	
Total Petroleum Hydrocarbons (TPH) by USEPA Method 8015M																							
TPH-g (C4-C12)	mg/kg	46.5	-	-	-	<0.5	-	<0.5	-	-	<0.5	-	-	<0.5	-	-	<0.5	-	-	-	-	-	
TPH-d (C13-C22)	mg/kg	1960	<5	<5	<5	48.7	<5	<5.0	<5	<5	<5	<5	<5	7.42J	<5	<5	21.3	29.8	<5	<5	<5	<5	
TPH-h (C23-C40)	mg/kg	5360	<5	<5	9.52J	423	26.7	96.5	28.8	11.7	<5	<5	<5	8.33J	<5	<5	167	80.7	24.8	<5	<5	<5	
TPH-d&h (C13-C40)																							
Volatile Organic Compounds (VOCs) by EPA Method 8260B																							
Acetone	ug/kg	151	-	-	-	<25	-	<25	-	-	<25	-	-	<25	-	-	<25	-	-	-	-	<25	6.0E+06
Benzene	ug/kg	10.8	-	-	-	<2	-	<2	-	-	<2	-	-	<2	-	-	<2	-	-	-	-	<2	1.3E+03
2-Butanone (MEK)	ug/kg	43.7J	-	-	-	<25	-	<25	-	-	<25	-	-	<25	-	-	<25	-	-	-	-	<25	2.7E+07
sec-Butylbenzene	ug/kg	9.0J	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	2.2E+05
Carbon Disulfide	ug/kg	81.5	-	-	-	<25	-	<25	-	-	<25	-	-	<25	-	-	<25	-	-	-	-	<25	7.2E+05
Chlorobenzene	ug/kg	16	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	5.3E+05
1,2-Dichlorobenzene	ug/kg	56.3	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	3.7E+05
1,3-Dichlorobenzene	ug/kg	11.7	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	6.3E+04
1,4-Dichlorobenzene	ug/kg	58	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	7.9E+03
cis-1,2-Dichloroethene	ug/kg	5.4J	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	1.5E+05
Ethylbenzene	ug/kg	18.2	-	-	-	<2	-	<2	-	-	<2	-	-	<2	-	-	<2	-	-	-	-	<2	2.0E+04
p-Isopropyltoluene	ug/kg	15	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	
Naphthalene	ug/kg	26.1	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	1.9E+05
n-Propylbenzene	ug/kg	11.1	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	2.4E+05
Toluene (Methyl benzene)	ug/kg	25.8	-	-	-	<2	-	<2	-	-	<2	-	-	<2	-	-	<2	-	-	-	-	<2	5.2E+05
Trichloroethene	ug/kg	14.7	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	1.1E+02
1,2,4-Trimethylbenzene	ug/kg	9.8J	-	-	-	<5	-	<5	-	-	<5	-	-	<5	-	-	<5	-	-	-	-	<5	1.7E+05
o-Xylene	ug/kg	23.5	-	-	-	<2	-	<2	-	-	<2	-	-	<2	-	-	<2	-	-	-	-	<2	4.2E+05[1]
m,p-Xylenes	ug/kg	14.9J	-	-	-	<2	-	3.0J	-	-	<2	-	-	<2	-	-	<2	-	-	-	-	<2	
other VOCs	ug/kg	ND	-	-	-	ND	-	ND	-	-	ND	-	-	ND	-	-	ND	-	-	-	-	ND	
Semivolatile Organic Compounds (SVOCs) by USEPA Method 8270C																							
Acenaphthene	mg/kg	4.20J	-	-	-	<0.25	-	<0.25	-	-	<0.25	-	-	<0.25	-	-	<0.25	-	-	-	-	-	2.9E+04
Acenaphthylene	mg/kg	<2.50	-	-	-	<0.25	-	<0.25	-	-	0.414J	-	-	0.985	-	-	<0.25	-	-	-	-	-	
Anthracene	mg/kg	3.48J	-	-	-	<0.25	-	<0.25	-	-	<0.25	-	-	0.471J	-	-	<0.25	-	-	-	-	-	1.0E+05
Benzo(a)anthracene	mg/kg	6.23	-	-	-	<0.25	-	0.538	-	-	0.844	-	-	2.3	-	-	<0.25	-	-	-	-	-	2.1E+00
Benzo(a)pyrene	mg/kg	2.60J	-	-	-	<0.25	-	0.52	-	-	1.02	-	-	3.13	-	-	<0.25	-	-	-	-	-	2.1E-01
Benzo(b)fluoranthene	mg/kg	<2.50	-	-	-	<0.25	-	0.631	-	-	1.33	-	-	3.15	-	-	<0.25	-	-	-	-	-	2.1E+00
Benzo(ghi)perylene	mg/kg	<2.50	-	-	-	<0.25	-	0.374J	-	-	1.04	-	-	2.53	-	-	<0.25	-	-	-	-	-	
Benzo(k)fluoranthene	mg/kg	<2.50	-	-	-	<0.25	-	0.392J	-	-	0.516	-	-	1.83	-	-	<0.25	-	-	-	-	-	2.1E+01
Benzoic Acid	mg/kg	3.38J	-	-	-	<0.25	-	<0.25	-	-	0.337J	-	-	<0.25	-	-	<0.25	-	-	-	-	-	1.0E+05
Bis(2-ethylhexyl)phthalate	mg/kg	<2.50	-	-	-	<0.25	-	0.516	-	-	<0.25	-	-	<0.25	-	-	<0.25	-	-	-	-	-	1.2E+02
Chrysene	mg/kg	10.4	-	-	-	<0.25	-	0.734	-	-	1	-	-	3.05	-	-	<0.25	-	-	-	-	-	2.1E+02
Fluoranthene	mg/kg	3.13J	-	-	-	<0.25	-	1.01	-	-	1.03	-	-	2.62	-	-	<0.25	-	-	-	-	-	2.2E+04
Fluorene	mg/kg	4.48J	-	-	-	<0.25	-	<0.25	-	-	<0.25	-	-	<0.25	-	-	<0.25	-	-	-	-	-	2.6E+04
Indeno(1,2,3-cd)pyrene	mg/kg	<2.50	-	-	-	<0.25	-	0.335J	-	-	0.781	-	-	1.88	-	-	<0.25	-	-	-	-	-	2.1E+00
Naphthalene	mg/kg	<2.50	-	-	-	<0.25	-	<0.25	-	-	<0.25	-	-	0.287J	-	-	<0.25	-	-	-	-	-	1.9E+02
Phenanthrene	mg/kg	13.3	-	-	-	<0.25	-	0.460J	-	-	0.505	-	-	1.14	-	-	<0.25	-	-	-	-	-	
Pyrene	mg/kg	17.8	-	-	-	<0.25	-	0.839	-	-	1.83	-	-	4.64	-	-	<0.25	-	-	-	-	-	2.9E+04
other SVOCs	mg/kg	ND	-	-	-	ND	-	ND	-	-	ND	-	-	ND	-	-	ND	-	-	-	-	-	

ENVIRON

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SAR193351

Table 1
Soil Analytical Results
San Diego Gas and Electric
Silver Gate Power Plant
Tidelands Lease
Sampled August 7, 2003

Sample I.D.		B2-2.0	B2-3.0	B2-6.0	B3-2.0	B3-4.0	B3-9.0	B4-3.0	B4-4.0	B4-9.0	B5-2.0	B5-4.0	B5-9.0	B6-2.0	B6-3.0	B6-8.0	B7-2.0	B7-4.0	B7-8.0	B8-2.0	B8-4.0	B8-10.0	Industrial
Depth (ft.)		2	3	8	2	4	9	3	4	9	2	4	9	2	3	8	2	4	8	2	4	10	PRG*
Polychlorinated Biphenyls (PCBs) by USEPA Method 8082																							
Aroclor-1254	ug/kg	<35	-	-	-	<35	-	2600	-	-	<35	-	-	<35	-	-	<35	-	-	-	-	-	7.4E+02
Aroclor-1260	ug/kg	380	-	-	-	<35	-	1600	-	-	<35	-	-	<35	-	-	<35	-	-	-	-	-	7.4E+02
other Aroclors	ug/kg	ND	-	-	-	ND	-	ND	-	-	ND	-	-	ND	-	-	ND	-	-	-	-	-	
Title 22 Metals by USEPA Method 6010/7900CAM																							
Barium	mg/kg	66	-	-	-	14.9	-	233	-	-	35.2	-	-	35.3	-	-	49.8	-	-	-	-	-	6.7E+04
Cadmium	mg/kg	1.35J	-	-	-	<1.3	-	1.90J	-	-	<1.3	-	-	<1.3	-	-	<1.3	-	-	-	-	-	4.6E+02
Chromium	mg/kg	4220	-	-	-	5.5	-	131	-	-	9.9	-	-	19.5	-	-	9.6	-	-	-	-	-	4.5E+02
Cobalt	mg/kg	9.8	-	-	-	<2.5	-	11.5	-	-	3.70J	-	-	4.60J	-	-	5.35	-	-	-	-	-	1.9E+03
Copper	mg/kg	393	-	-	-	5.85	-	868	-	-	10.5	-	-	32.3	-	-	13.4	-	-	-	-	-	4.1E+04
Lead[1]	mg/kg	277	-	-	-	<2.5	-	520	-	-	10.8	-	-	34.1	-	-	11.8	-	-	-	-	-	7.5E+02[2]
Molybdenum	mg/kg	15.6	-	-	-	<2.5	-	41	-	-	<2.5	-	-	<2.5	-	-	<2.5	-	-	-	-	-	5.1E+03
Nickel[2]	mg/kg	125	-	-	-	<2.5	-	33.8	-	-	7.5	-	-	27.6	-	-	6.35	-	-	-	-	-	2.0E+04[3]
Vanadium	mg/kg	272	-	-	-	10.9	-	44.3	-	-	30.8	-	-	61	-	-	33.8	-	-	-	-	-	7.2E+03
Zinc	mg/kg	1190	-	-	-	16.8	-	1060	-	-	32	-	-	71	-	-	61	-	-	-	-	-	1.0E+05
other metals	mg/kg	ND	-	-	-	ND	-	ND	-	-	ND	-	-	ND	-	-	ND	-	-	-	-	-	

Notes:
TPH-g = TPH as gasoline and light hydrocarbons (C4-C12)
TPH-d = TPH as diesel (C13-C22)
TPH-h = TPH as heavy hydrocarbons (C23-C40)
TPH-d&h = TPH as diesel and heavy hydrocarbons (C13-C40)
"-" = Not Analyzed
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
"ND" or "<" = Not detected at a concentration exceeding the method detection limit
J = estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL)

* USEPA Region IX Preliminary Remedial Goals (2002)
[1]Total Xylenes
2Industrial PRG result for Lead by non-standard method
3Industrial PRG result for Nickel (soluble salts)

ENV AMERICA

Table 2
Groundwater Analytical Results
San Diego Gas and Electric
Silver Gate Power Plant
Tidelands Lease
Sampled August 7, 2003

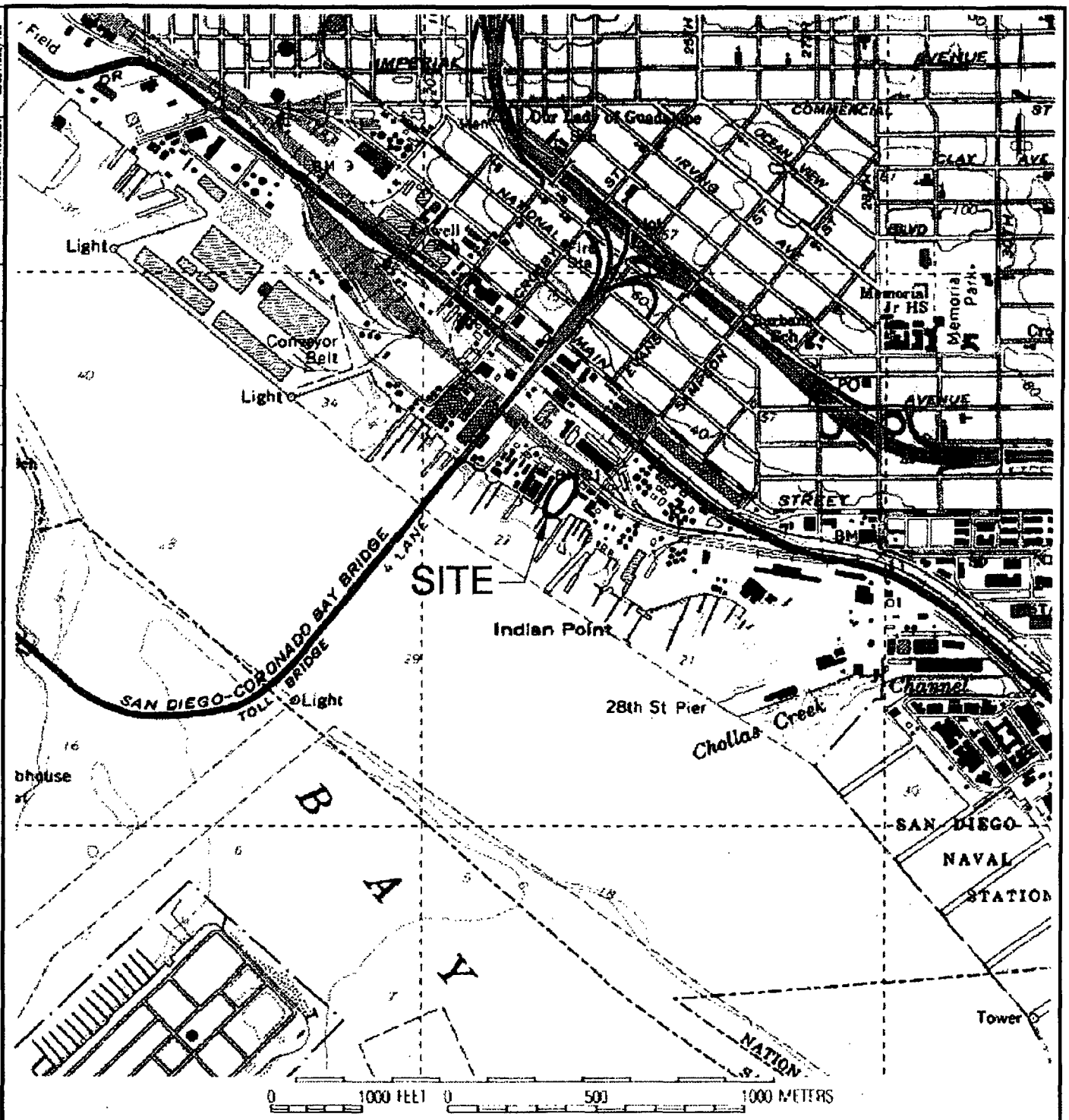
Analyte		Sample Number							
		B2-080703	B9-080703*	B3-080703	B4-080703	B5-080703	B6-080703	B7-080703	B8-080703
Total Petroleum Hydrocarbons (TPH) by USEPA Method 8015M									
TPH-g (C4-C12)	ug/L	<5	<5	<5	<5	45.9	38.8	<5	<5
TPH-d (C13-C22)	ug/L	139J	127J	<100	182J	136J	119J	<100	<100
TPH-h (C23-C40)	ug/L	183J	169J	<100	183J	<100	135J	<100	120J
Volatile Organic Compounds (VOCs) by USEPA Method 8260B									
1,1-Dichloroethane	ug/L	<0.5	<0.5	<0.5	<0.5	8.6	7.4	1.8	<0.5
1,2-Dichloroethane (EDC)	ug/L	<0.5	<0.5	<0.5	<0.5	3.8	4.4	3.8	0.8J
1,1-Dichloroethene	ug/L	<0.5	<0.5	<0.5	<0.5	45.8	34.8	2.9	<0.5
cis-1,2-Dichloroethene	ug/L	<0.5	<0.5	<0.5	<0.5	5.5	5.6	6.5	0.8J
trans-1,2-Dicholoroethene	ug/L	<0.5	<0.5	<0.5	<0.5	0.6J	0.6J	1	<0.5
Methyl-tert-butyl ether (MTBE)	ug/L	<0.5	<0.5	<0.5	<0.5	1.5	1.3	0.7J	<0.5
Tetrachloroethene	ug/L	<0.5	<0.5	<0.5	<0.5	1.7	1.2	<0.5	<0.5
Trichloroethene	ug/L	<0.5	<0.5	<0.5	<0.5	32.5	32.9	5.4	<0.5
other VOCs	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (SVOCs) by USEPA Method 8270C									
Semivolatiles	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls (PCBs) by USEPA Method 8082									
PCBs	ug/L	ND	ND	ND	ND	ND	ND	ND	ND
Title 22 Metals by USEPA Method 6010/7000CAM									
Barium	ug/L	56	51	98	<30	35J	35J	44J	59
Chromium	ug/L	21J	14J	<10	11J	11J	<10	<10	<10
Cobalt	ug/L	<10	<10	<10	<10	23J	21J	<10	<10
Copper	ug/L	<10	10J	16J	15J	<10	14J	<10	<10
Molybdenum	ug/L	36J	33J	<10	31J	17J	16J	20J	23J
Nickel	ug/L	124	36J	11J	95	64	67	42J	<10
Vanadium	ug/L	<30	<30	<30	<30	<30	34J	<30	<30
Zinc	ug/L	12J	40J	<10	11J	<10	11J	13J	<10
other metals	ug/L	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
TPH - total petroleum hydrocarbons
TPH-g = TPH as gasoline and light hydrocarbons (C4-C12)
TPH-d = TPH as diesel (C13-C22)
TPH-h = TPH as heavy hydrocarbons (C23-C40)
TPH-d&h = TPH as diesel and heavy hydrocarbons (C13-C40)
ug/L = micrograms per liter
"ND" or "<" = Not detected at a concentration exceeding the method detection limit
J = estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL)
* B9-080703 is a blind duplicate of Sample B2-080703

SAR193354

FIGURES

FIGURES



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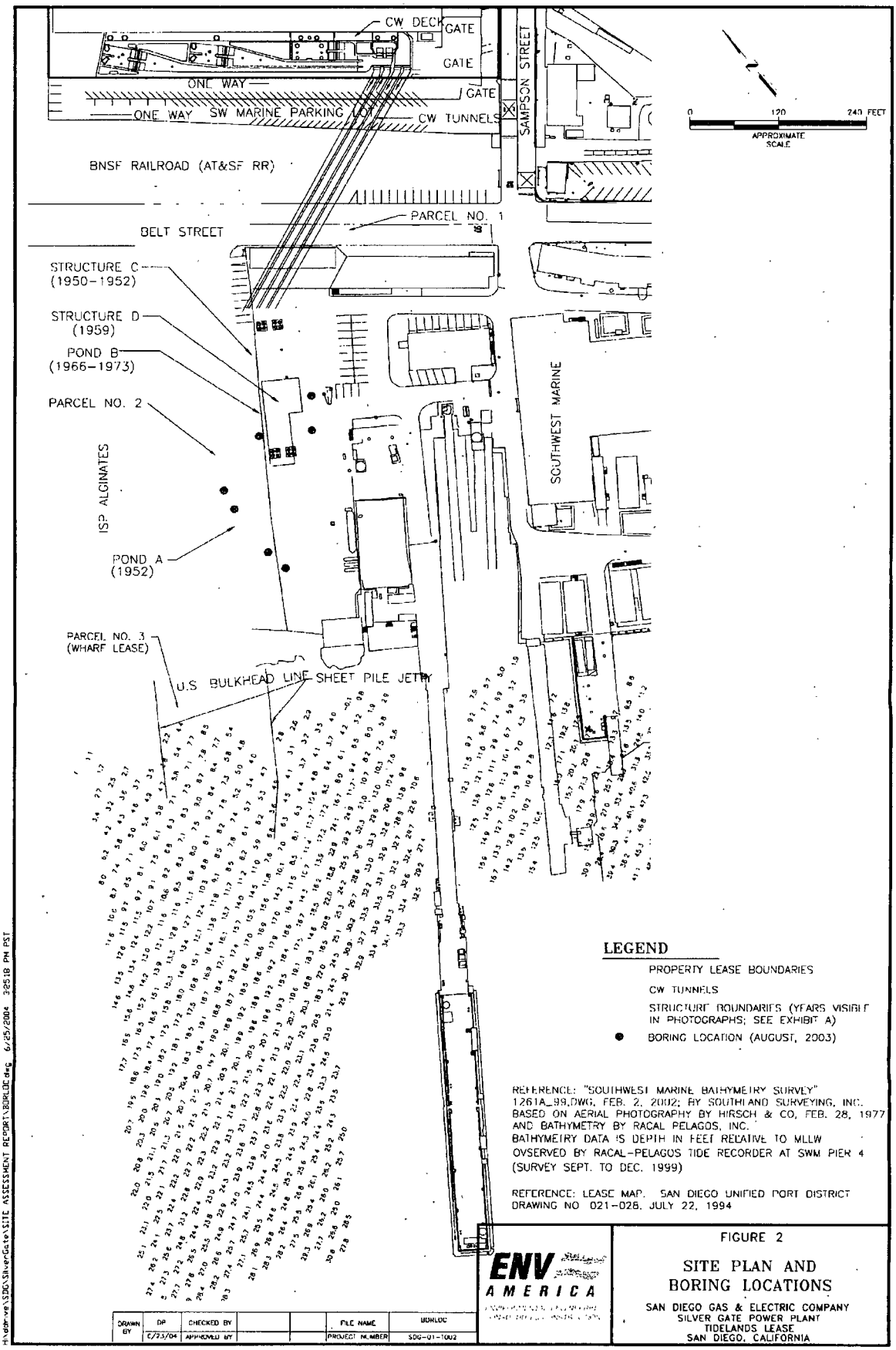
DRAWN BY	DATE	CHECKED BY	FILE NAME	WORKPLAN/LOCMAP
RAN	07/31/02	APPROVED BY	PROJECT NUMBER	SDG011002/130

ENV AMERICA
ENVIRONMENTAL ENGINEERING CONSULTING & CONSTRUCTION

FIGURE 1

TIDELANDS SITE LOCATION MAP

SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA

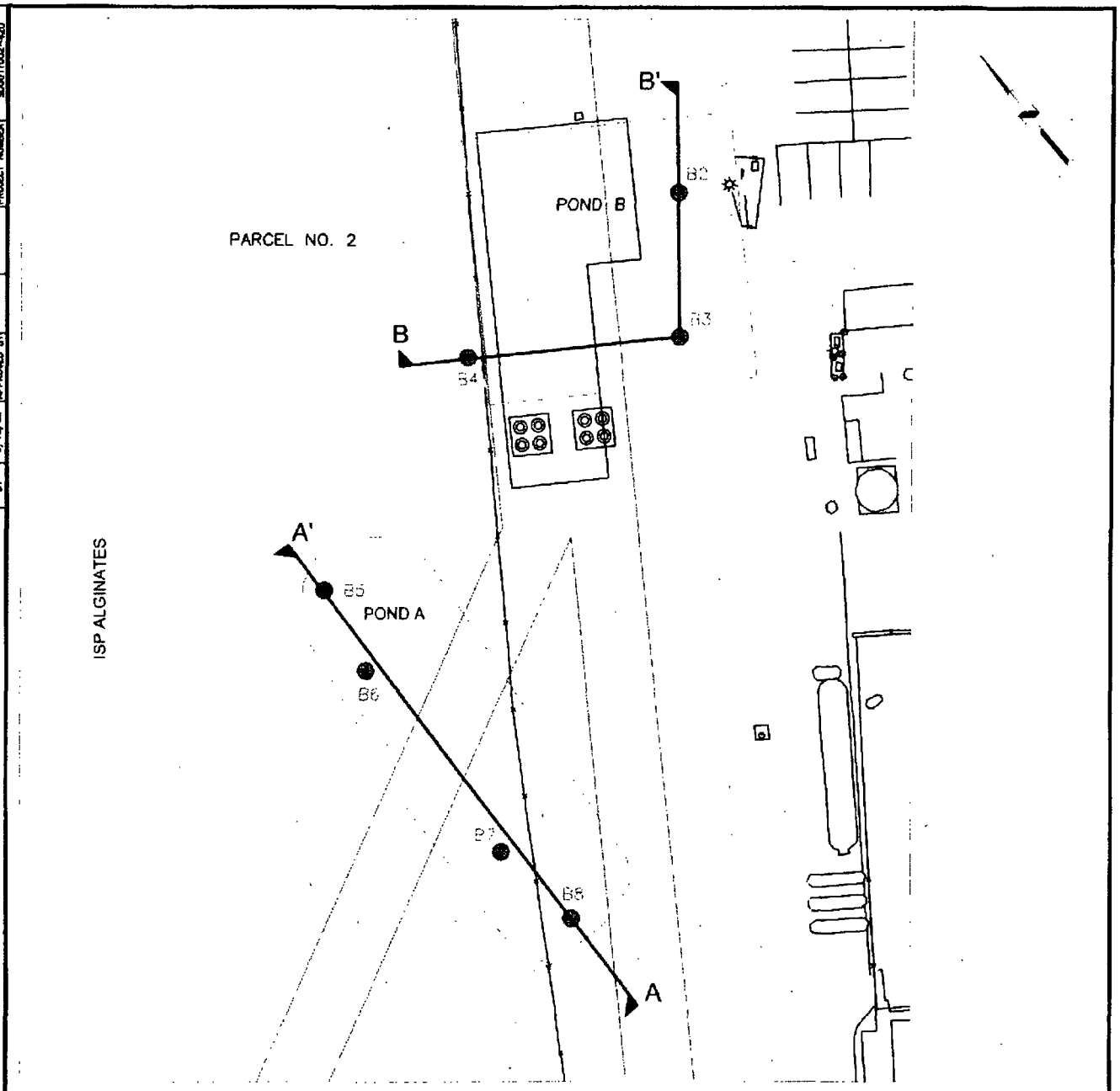


H:\data-ver\SDG\SilverGate\SITE ASSESSMENT REPORT\BORLOC.dwg 6/25/2004 3:25:18 PM PST

FIGURE 2

SITE PLAN AND BORING LOCATIONS

SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA



LEGEND

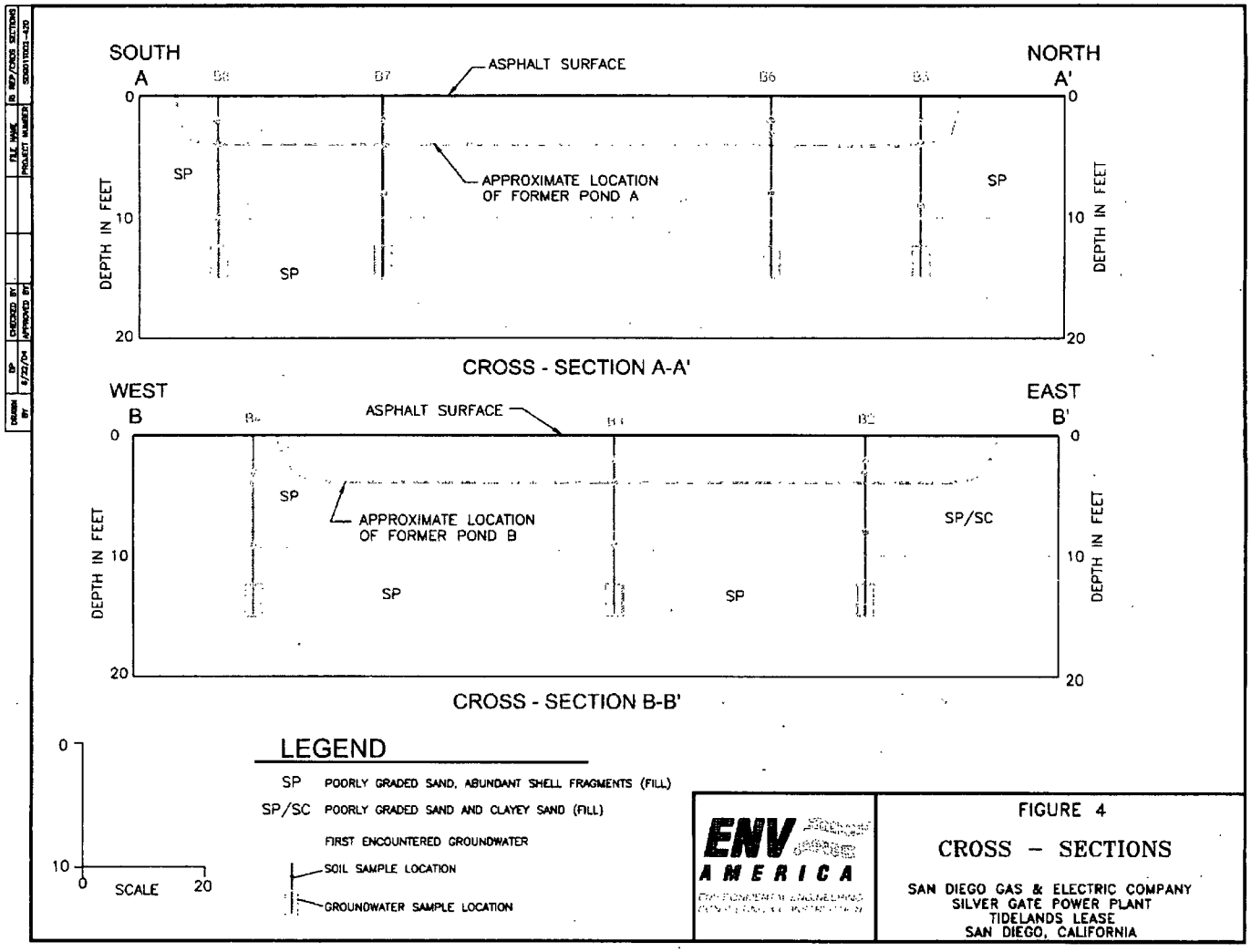
- A — A' : CROSS – SECTION LOCATION, FOR DETAIL SEE FIGURE 5
- B2 : BORING LOCATION
- PROPERTY LEASE BOUNDARIES
- CW TUNNELS
- POND BOUNDARIES

ENV AMERICA

FIGURE 3

CROSS - SECTION LOCATIONS

SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA


SOUTH
A
NORTH
A'
ASPHALT SURFACE
B8
B7
B6
B5
0
10
20
DEPTH IN FEET
SP
SP
SP
APPROXIMATE LOCATION
OF FORMER POND A
CROSS - SECTION A-A'
WEST
B
EAST
B'
ASPHALT SURFACE
SP
SP
SP
SP/SC
APPROXIMATE LOCATION
OF FORMER POND B
CROSS - SECTION B-B'
LEGEND
SP POORLY GRADED SAND, ABUNDANT SHELL FRAGMENTS (FILL)
SP/SC POORLY GRADED SAND AND CLAYEY SAND (FILL)
FIRST ENCOUNTERED GROUNDWATER
SOIL SAMPLE LOCATION
GROUNDWATER SAMPLE LOCATION
SCALE
ENV AMERICA
FIGURE 4
CROSS - SECTIONS
SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA

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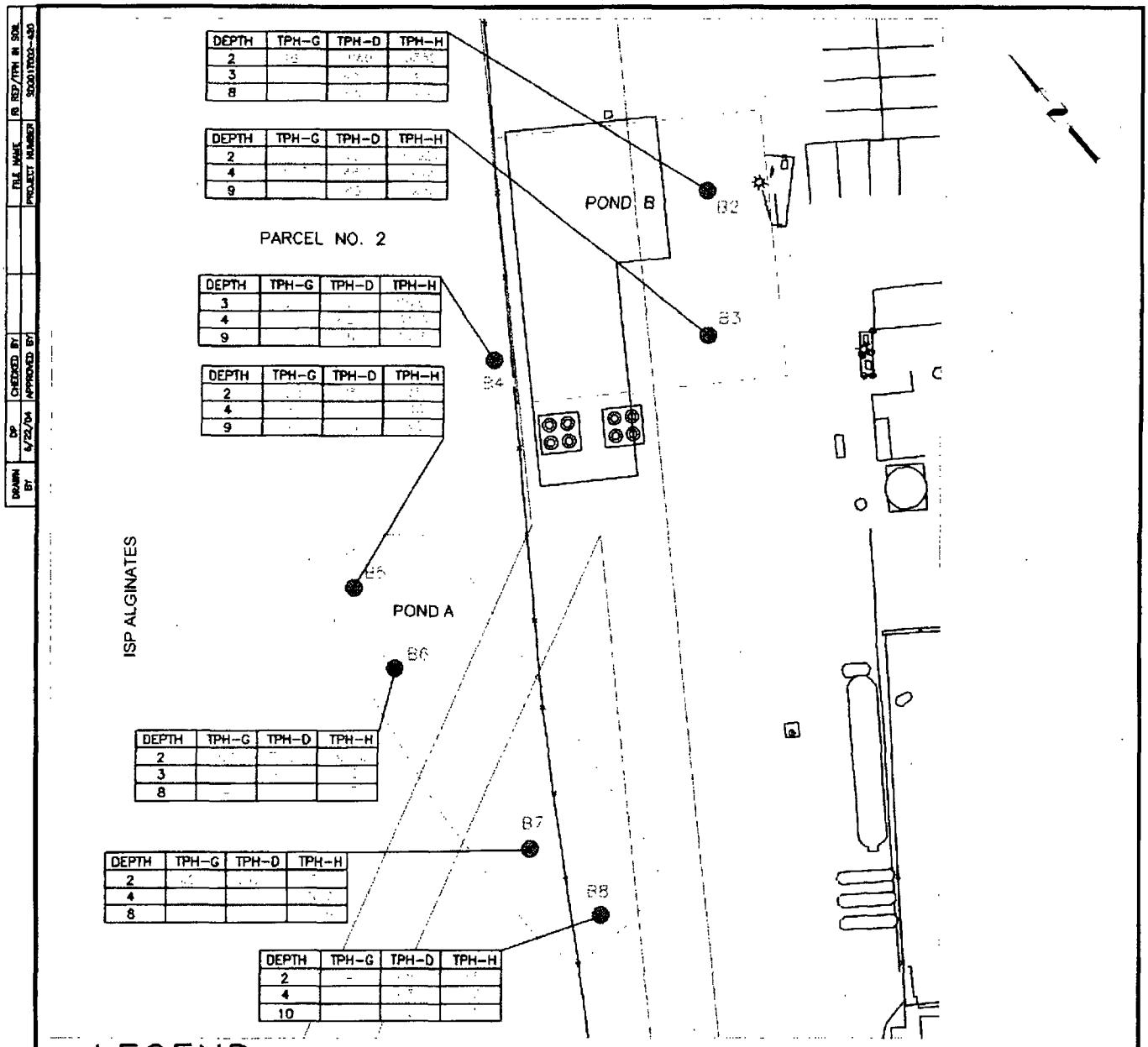
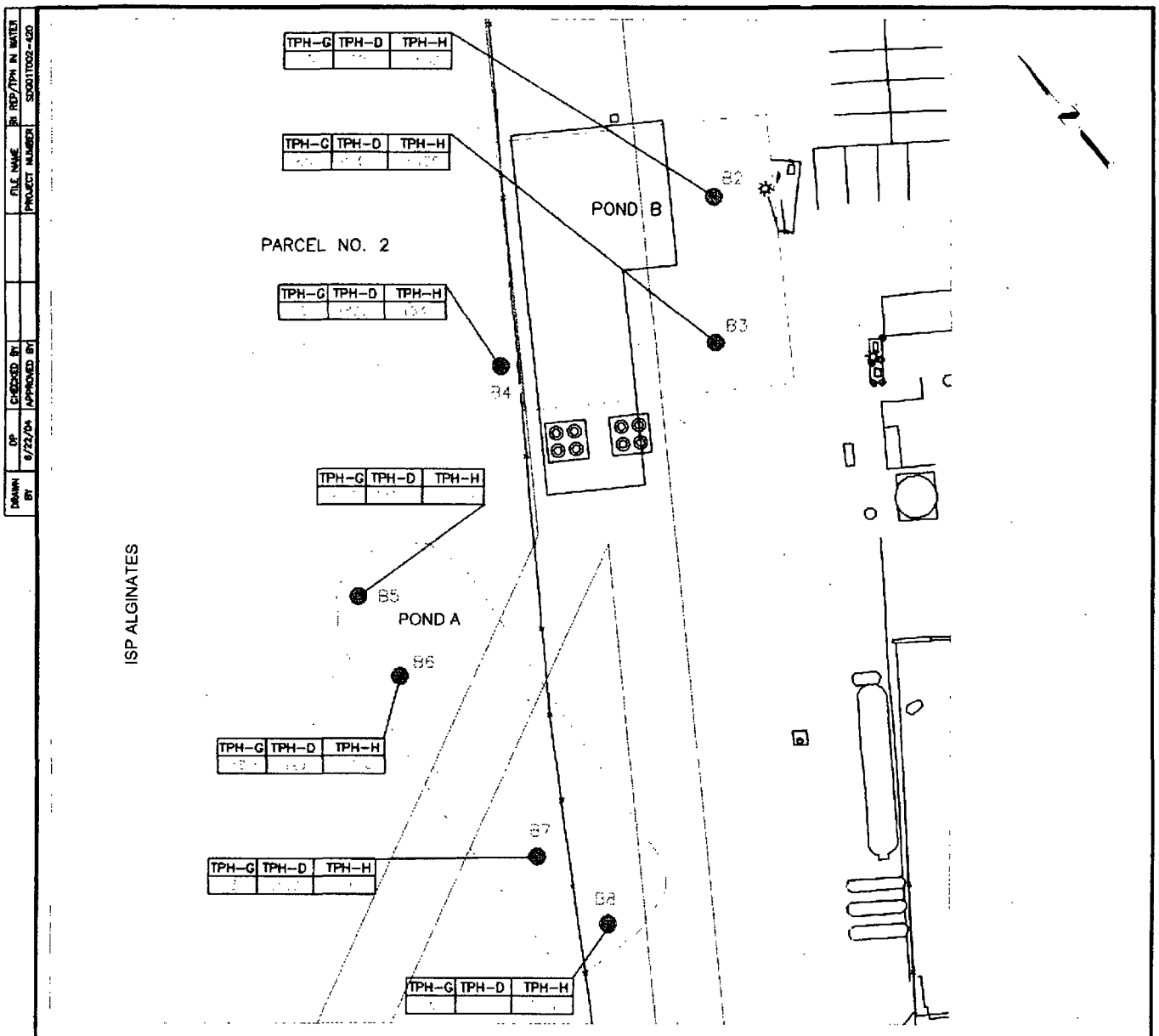


ENV AMERICA

FIGURE 5

SUMMARY OF TPH RESULTS IN SOIL

SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA



ENV AMERICA

FIGURE 6

SUMMARY OF TPH RESULTS IN GROUNDWATER

SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA

SAR19330

EXHIBIT A

EXHIBIT A

HISTORICAL INFORMATION

- Historical Photographs (30)
- SDMCCo, 1970. Plan by San Diego Marine Construction Company, dated July 10, 1970 (illustrates planking and pilings for marine haul-out over portion of pond)
- SDG&E, 1974. Internal Memorandum from A.W. Hovland to M.J. Horna. Subject: Proposed Bilge System Revision for Oil Spill Prevention at Silver Gate, dated September 10, 1974
- Tidelands Use and Occupancy Permit. San Diego Unified Port District Document No. 40224, dated March 20, 2000



Source: SDHS, 89-17537-46 Aerial of Harbor 1930.tif

March 1930

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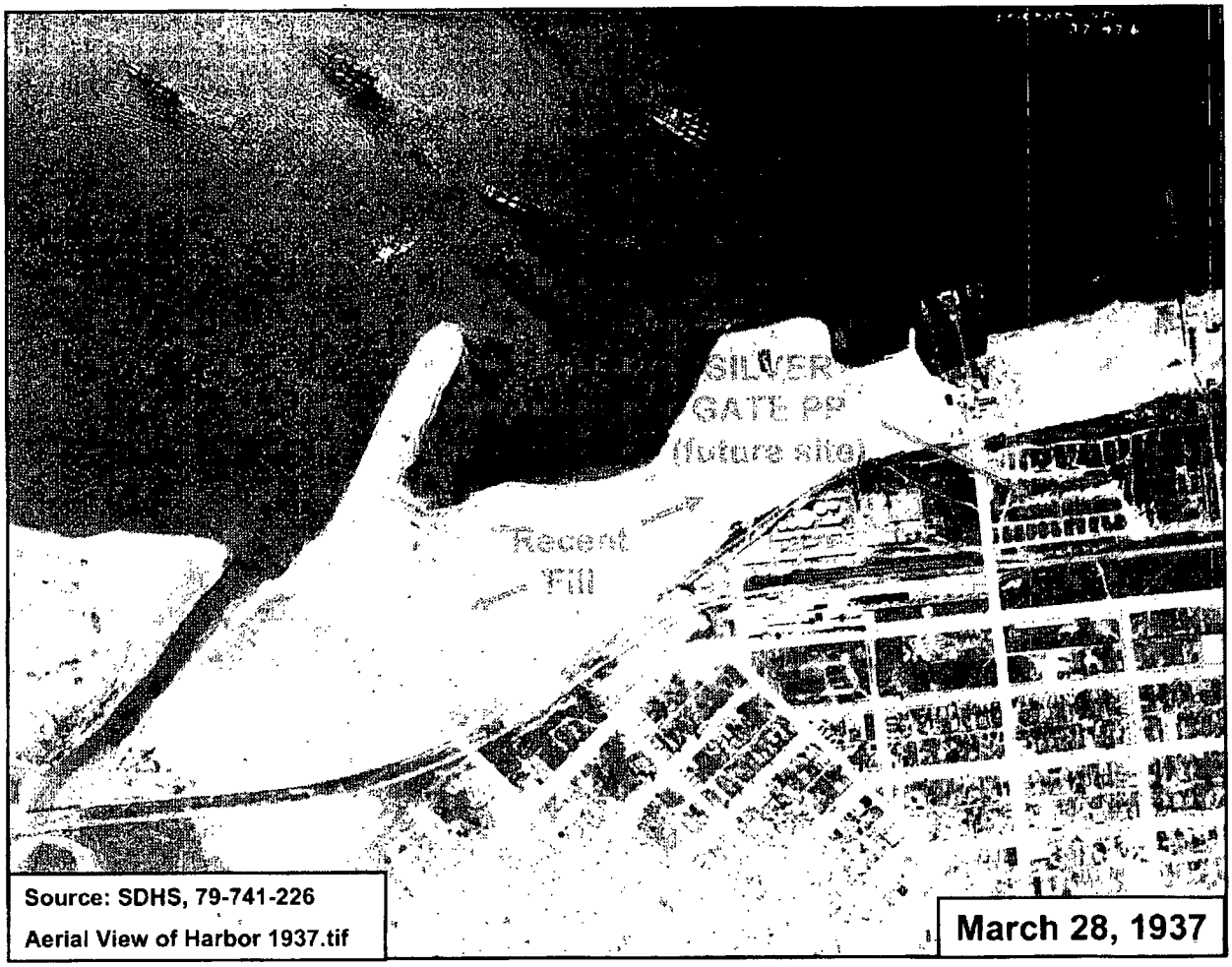

Source: SDHS, 79-741-226
Aerial View of Harbor 1937.tif

March 28, 1937

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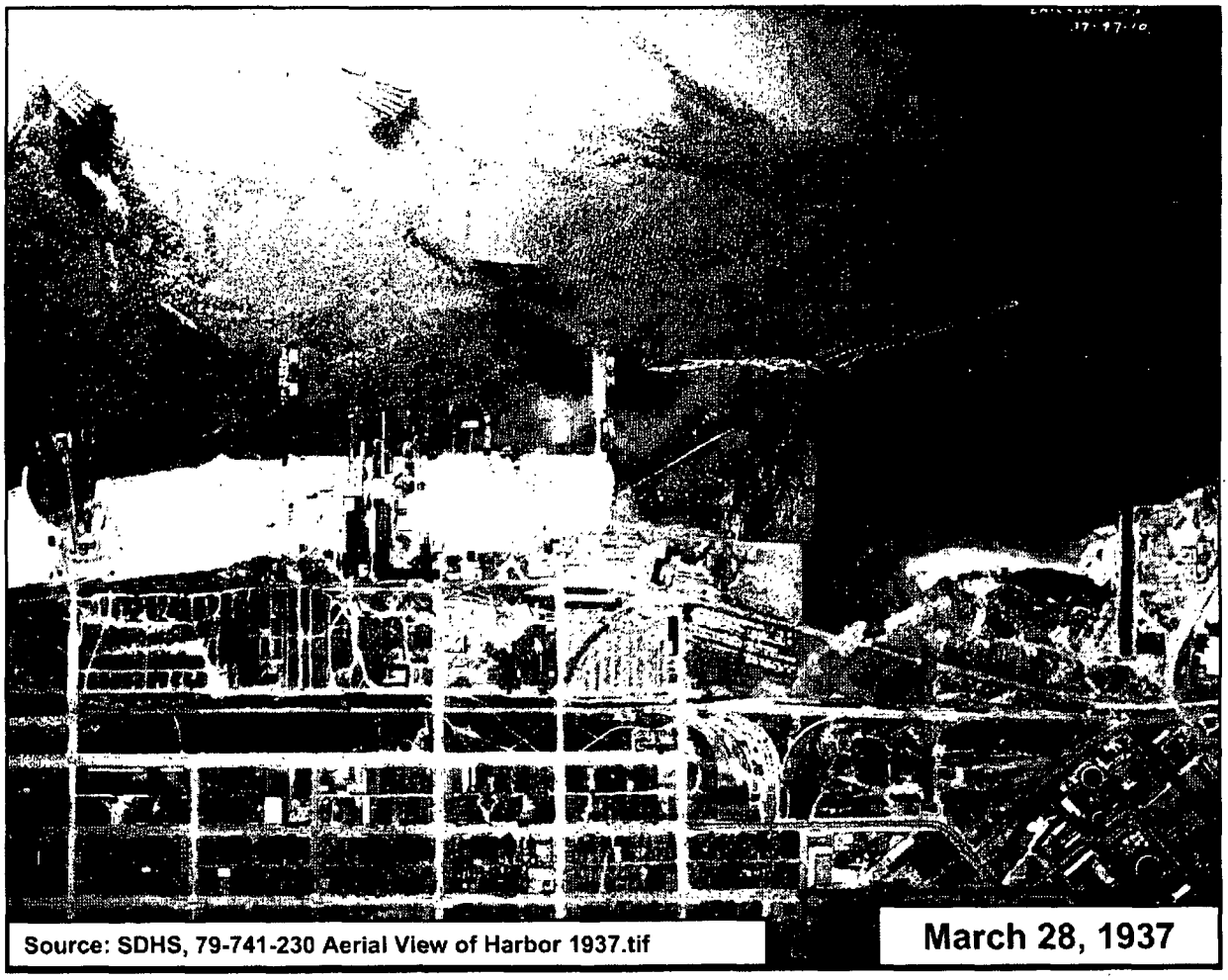
SAR193365



Source: SDHS, 79-741-230 Aerial View of Harbor 1937.tif

March 28, 1937

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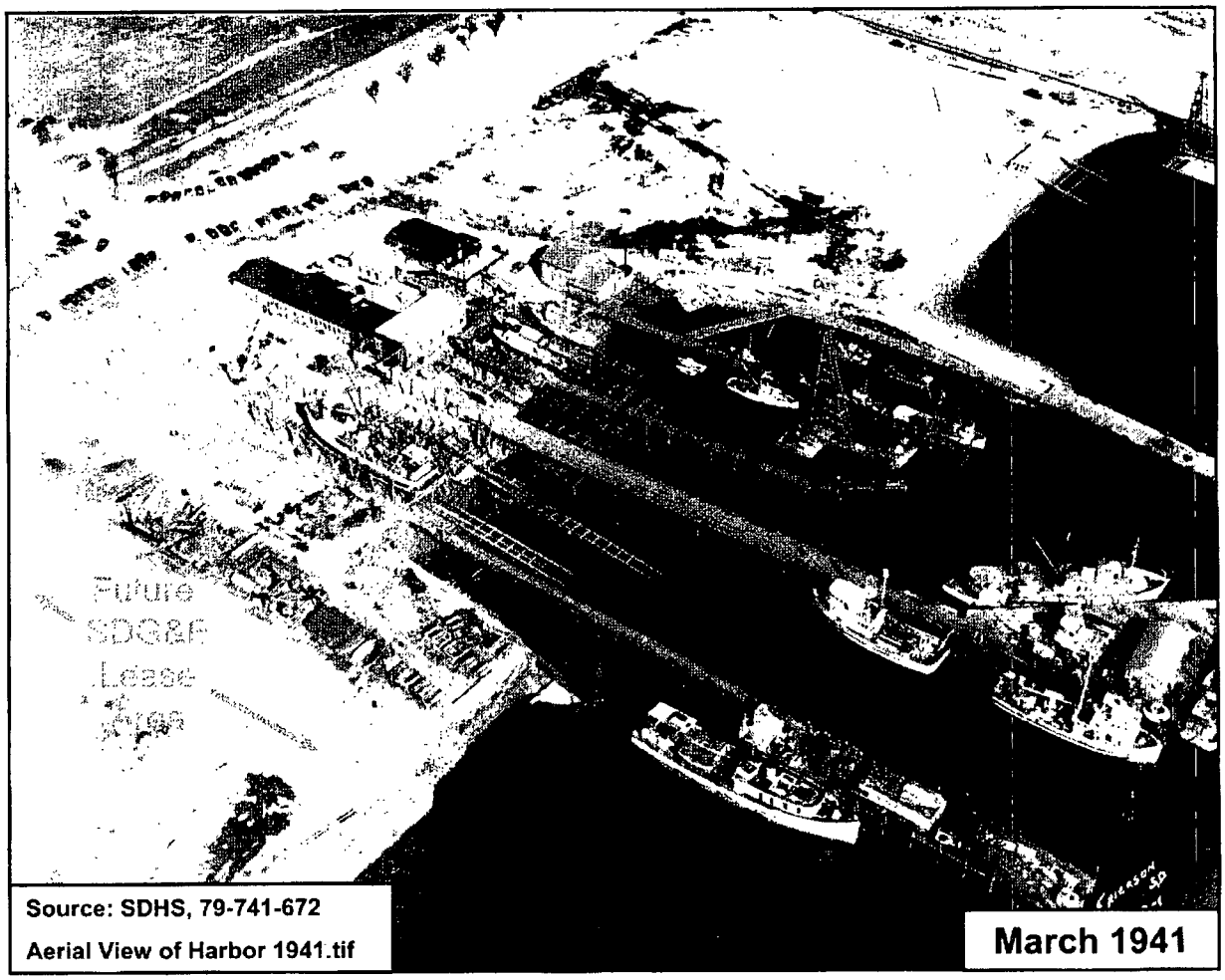
SAR19336



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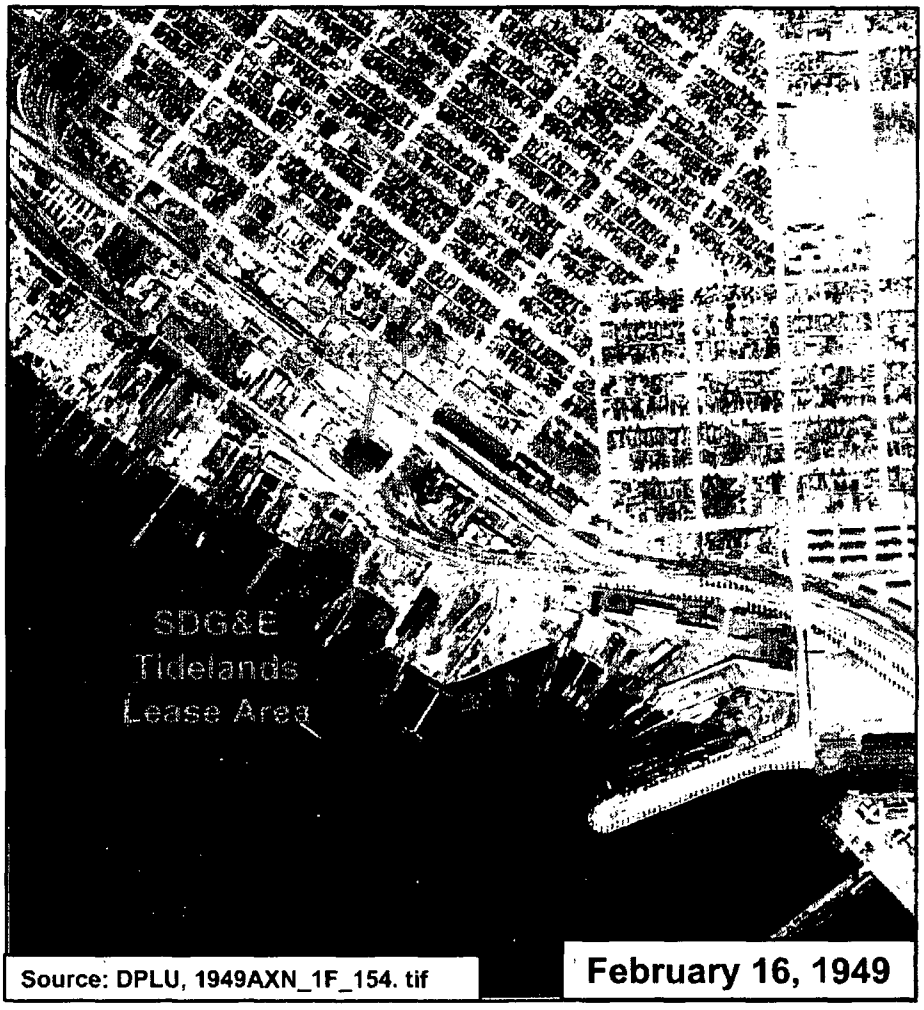

Source: DPLU, 1949AXN_1F_154. tif

February 16, 1949

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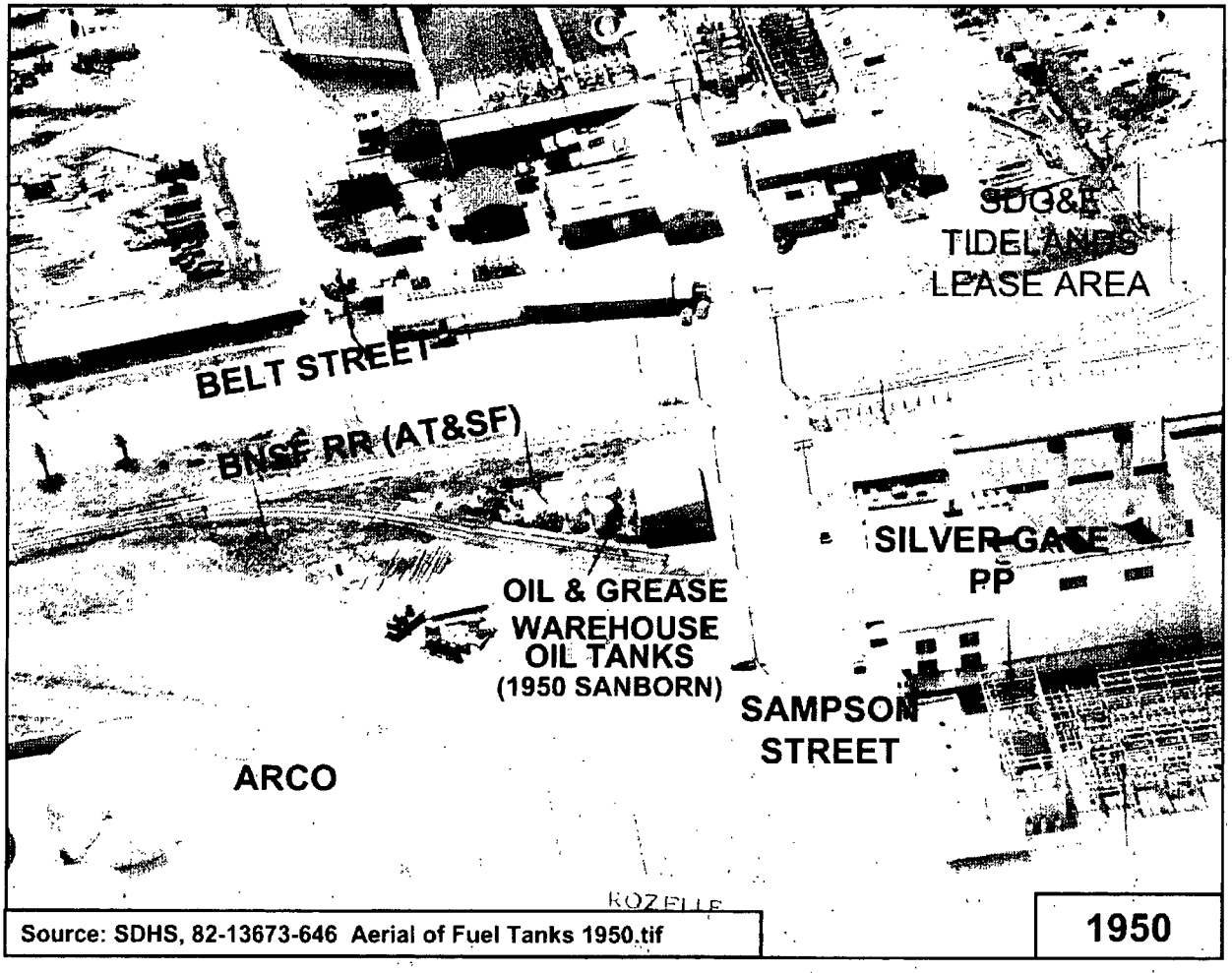

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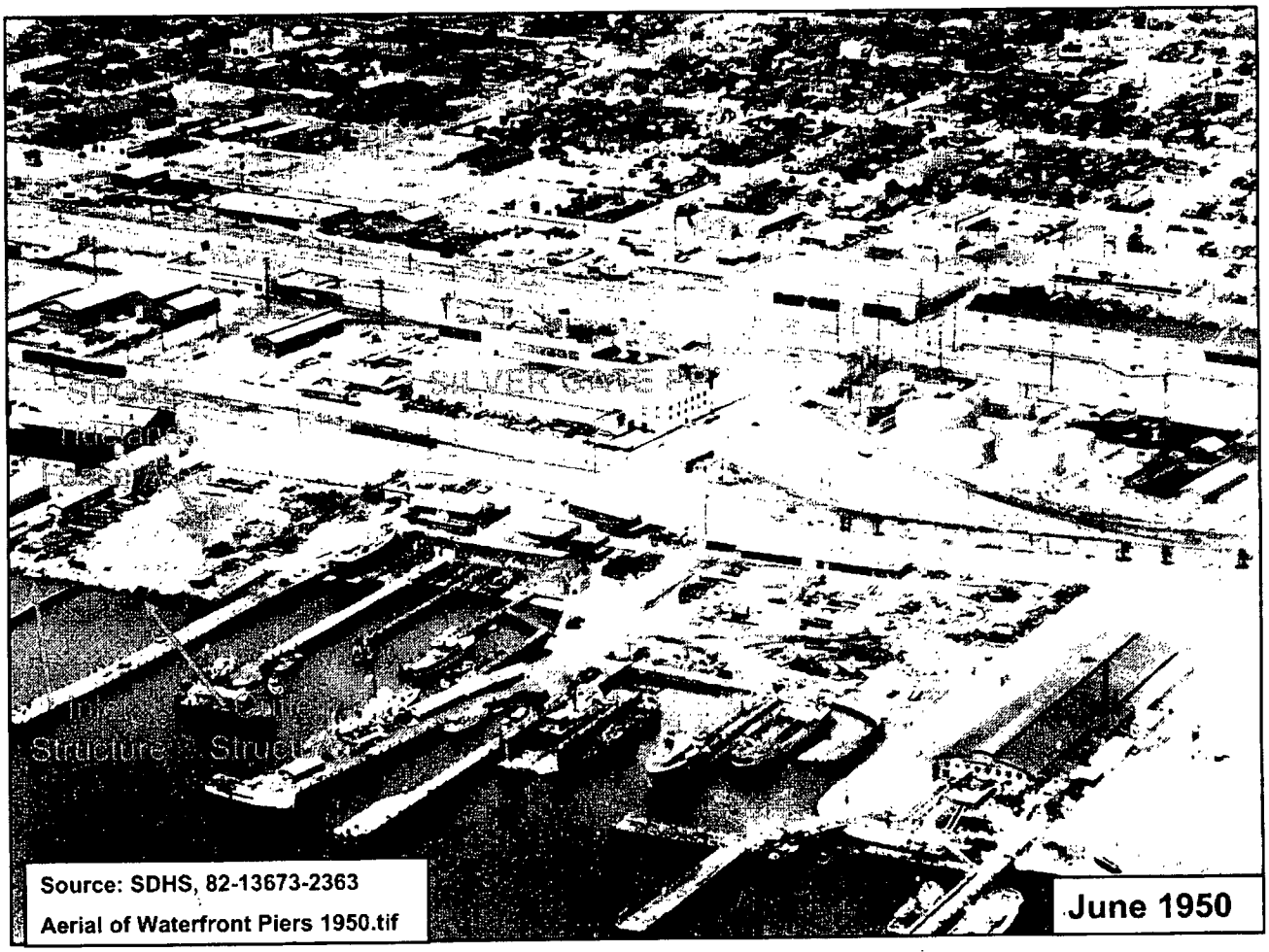

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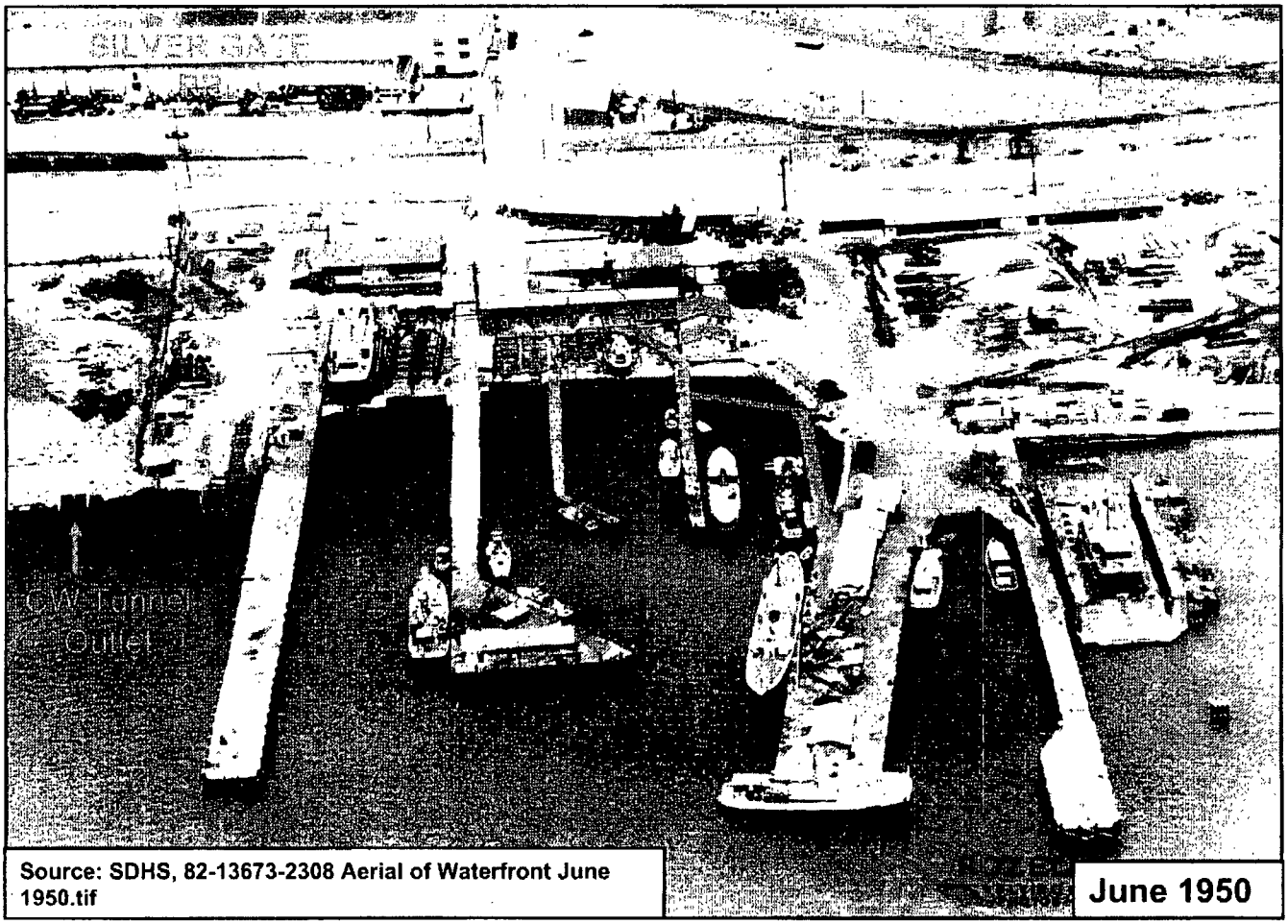

Source: SDHS, 82-13673-2308 Aerial of Waterfront June 1950.tif

June 1950

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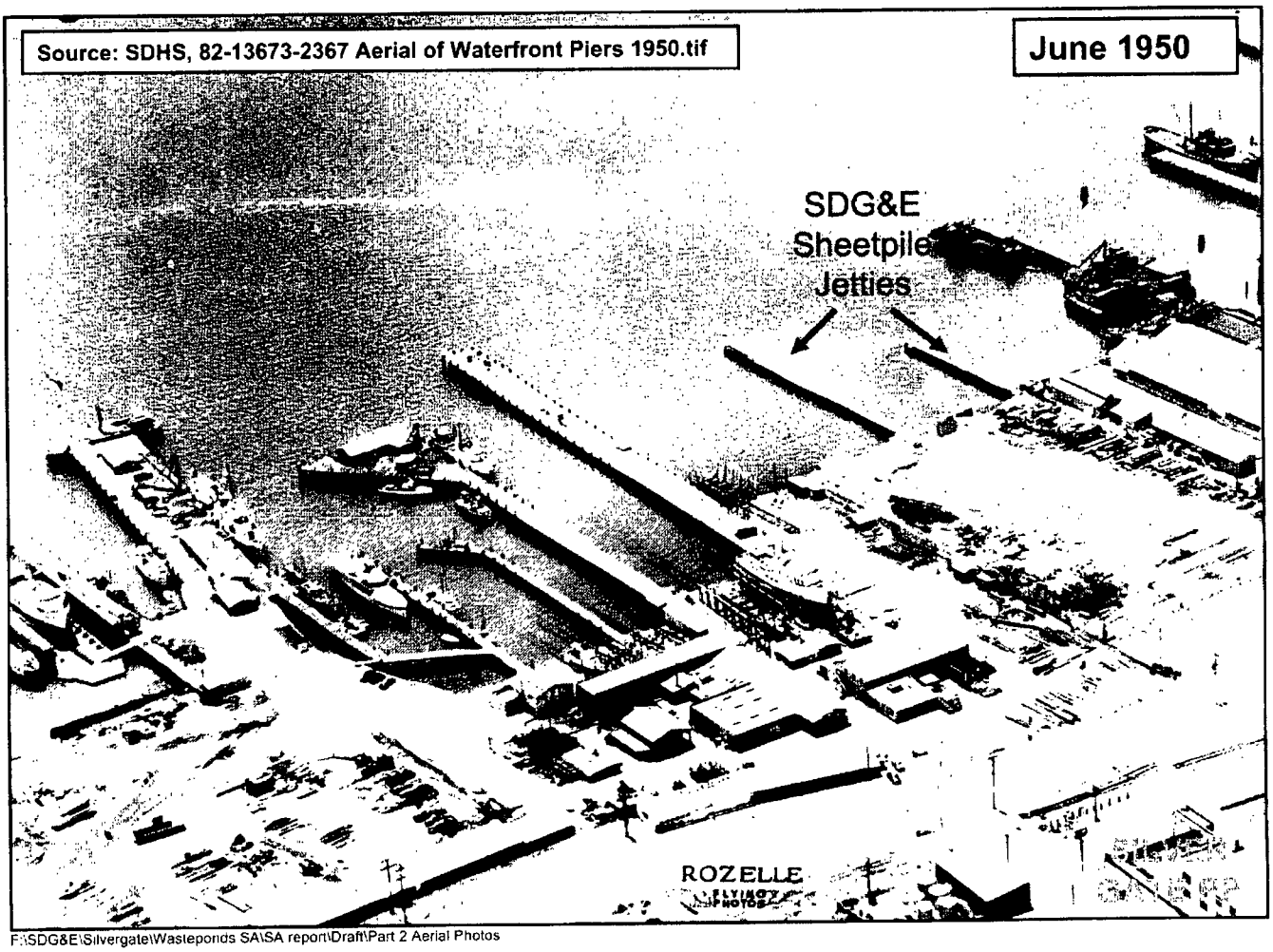

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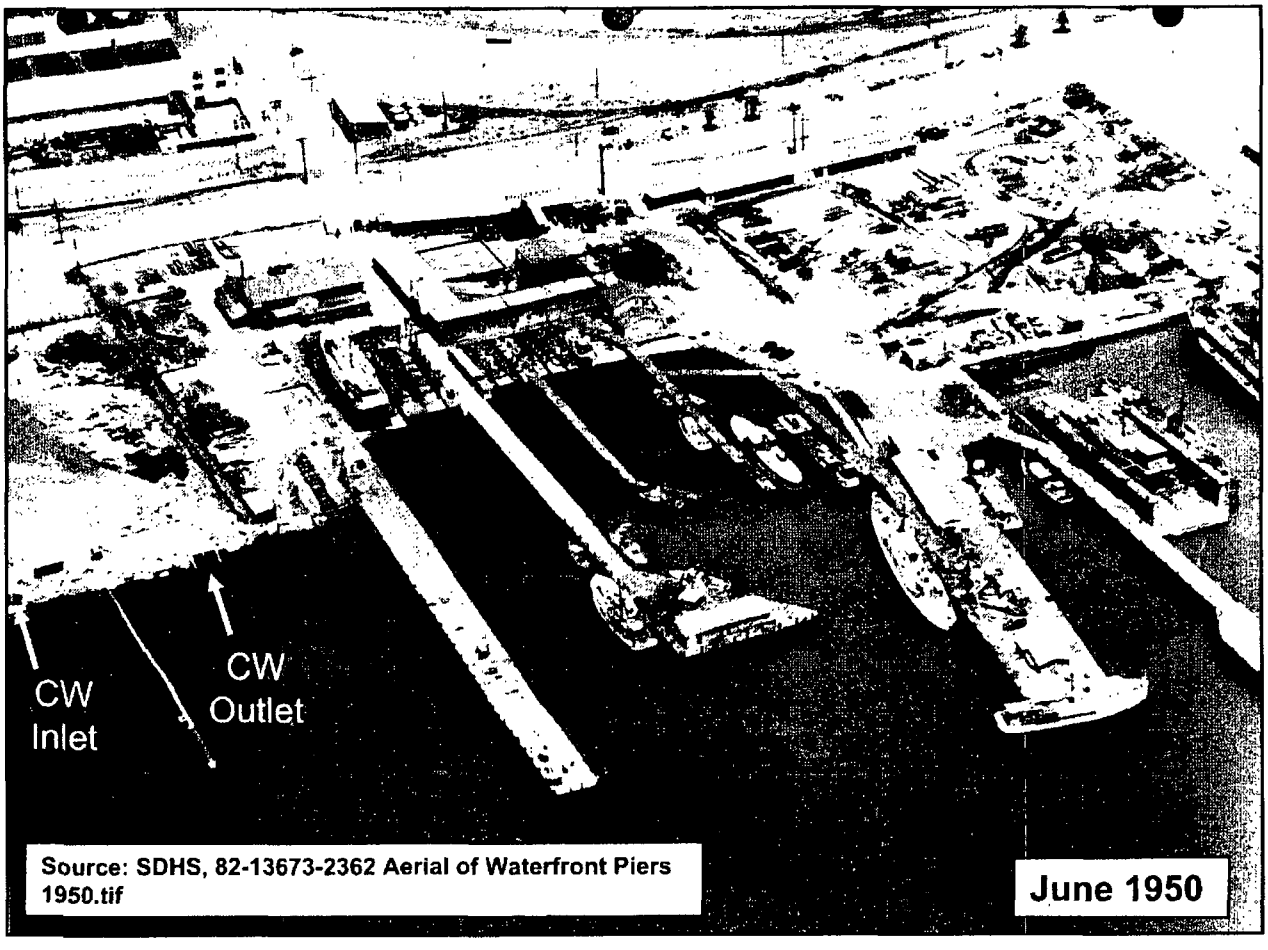

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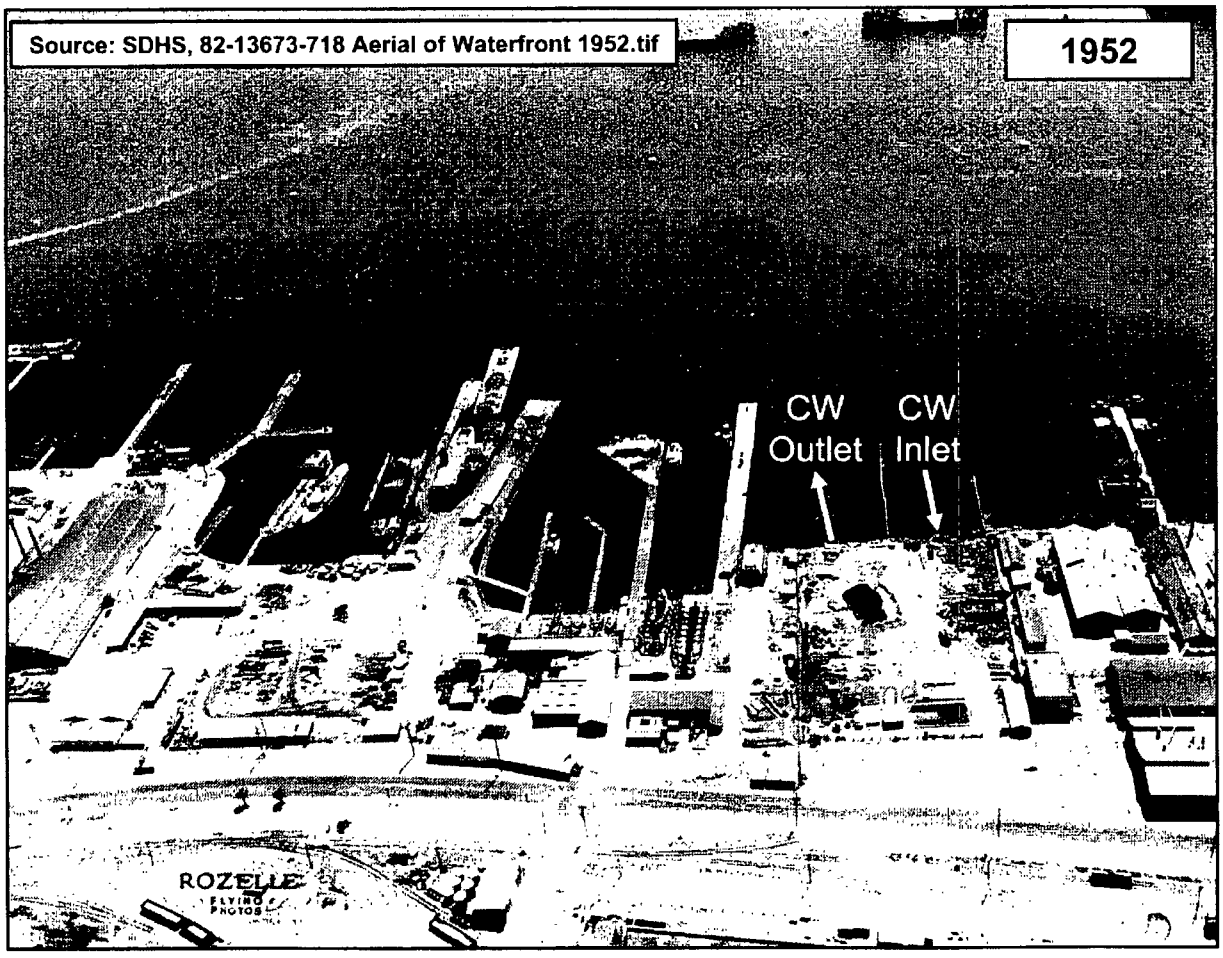

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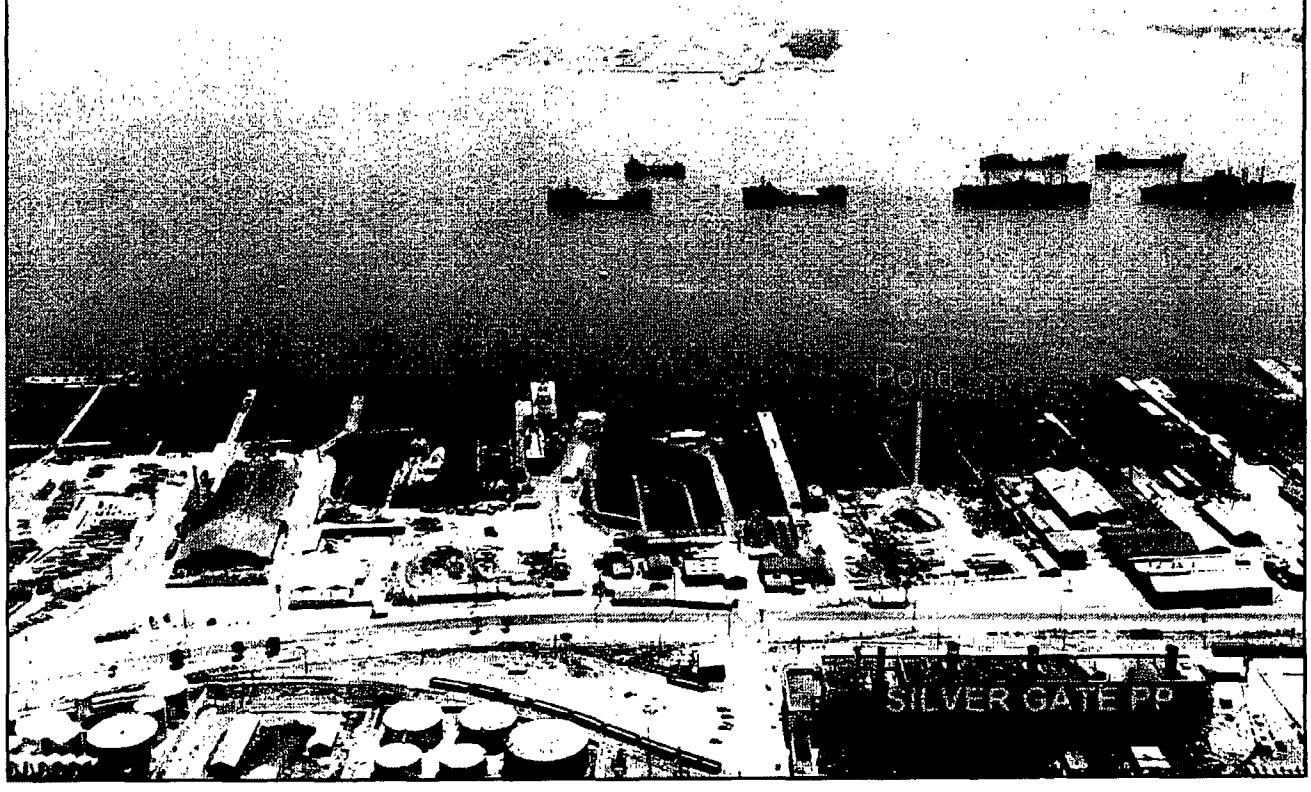
AR 5

Source: SDHS, 82-13673-720 Aerial of Waterfront 1952.tif

1952



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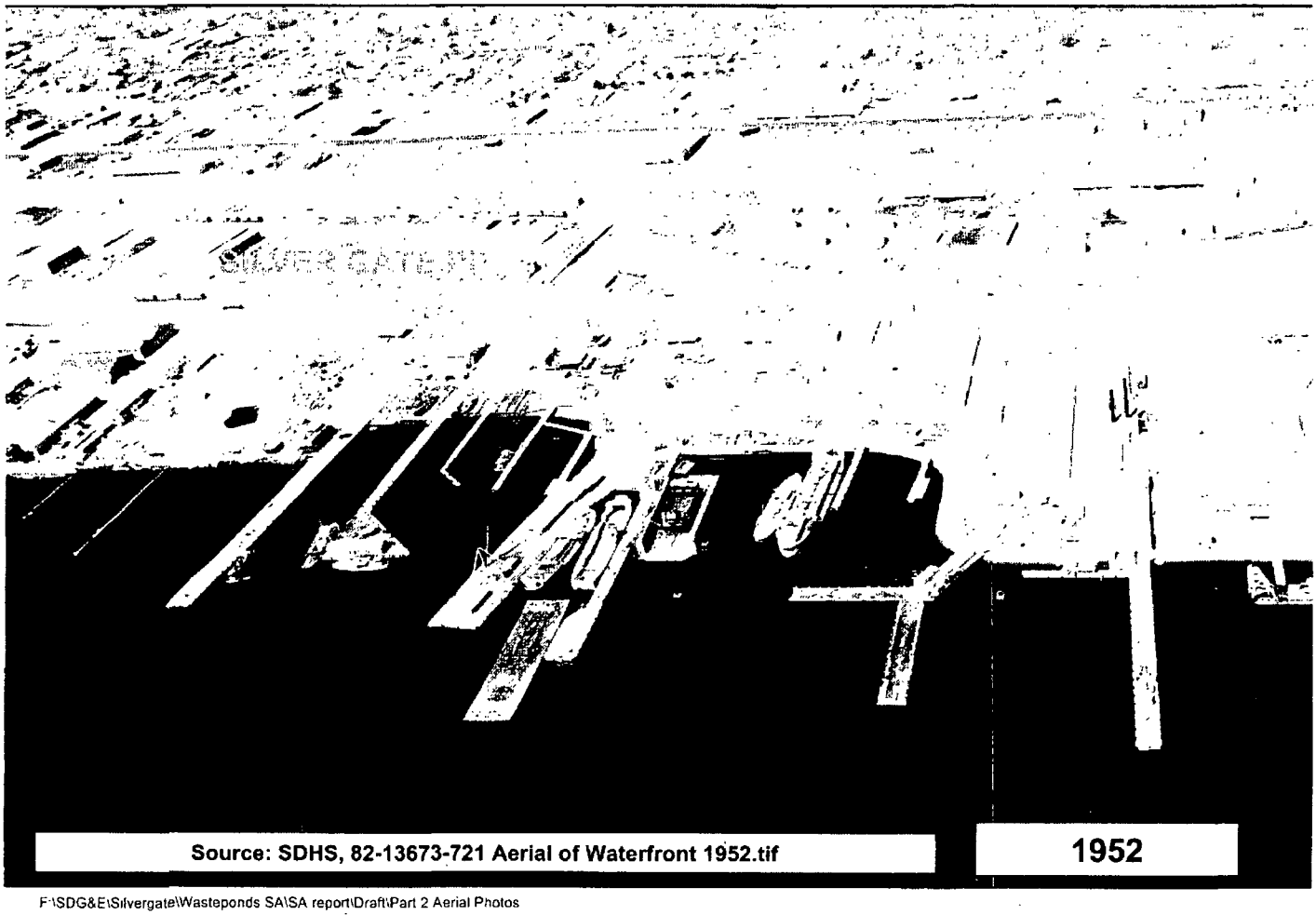

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SAR-000007



Source: DPLU, 1953AXN-3m-197.tif

March 31, 1953

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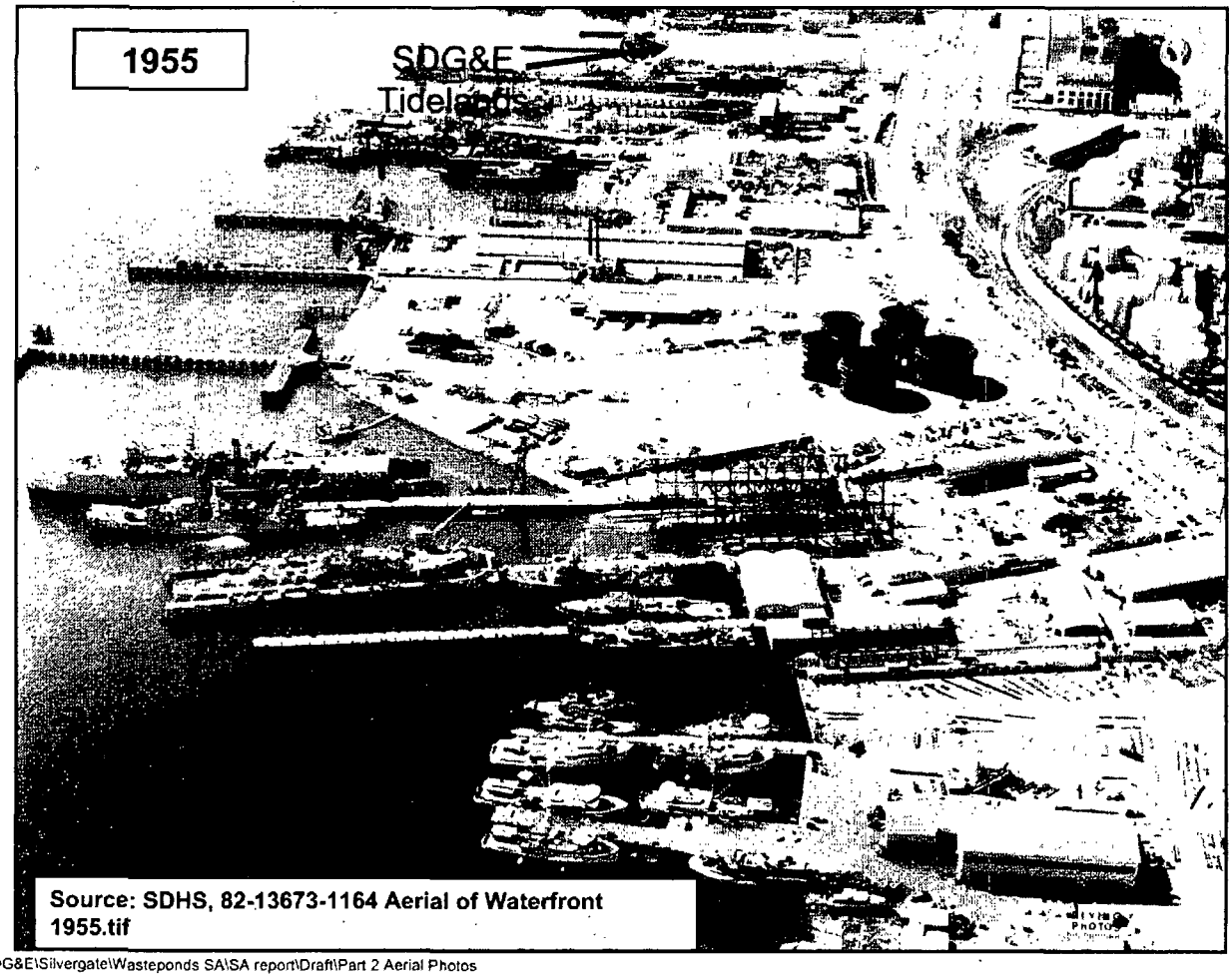
SAR193378



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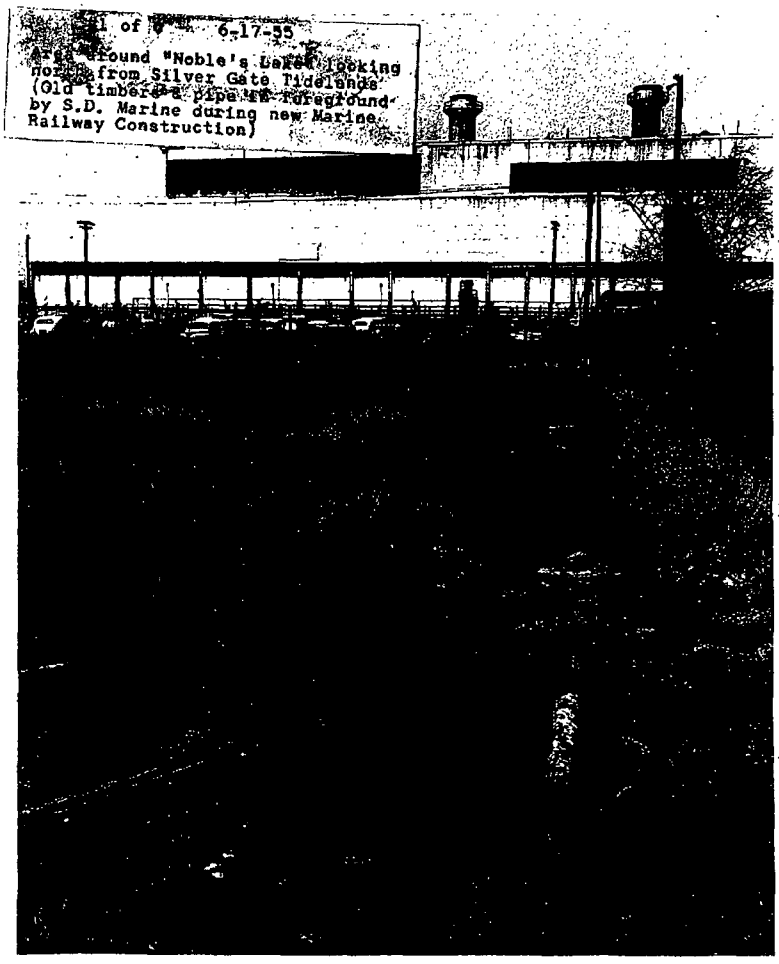
-AR-



Source: SDG&E

June 17, 1955

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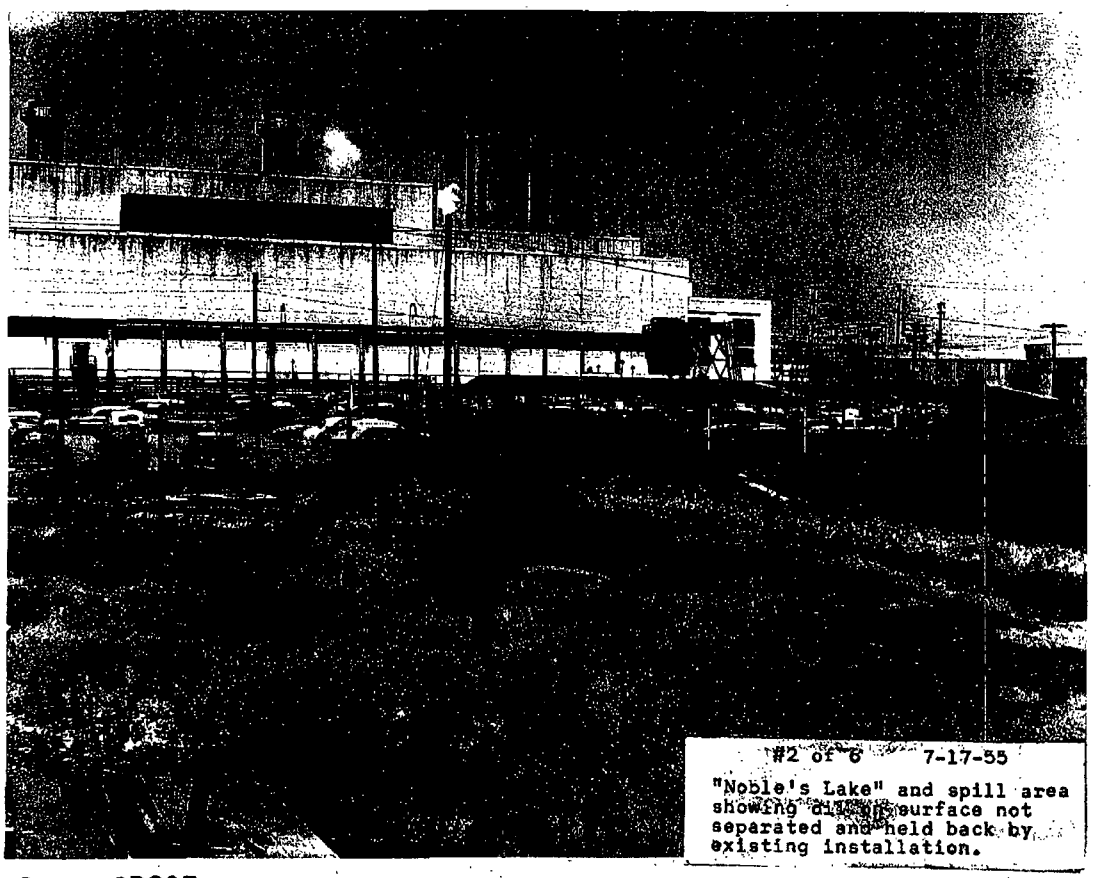

Source: SDG&E

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#3 of 6 6-17-55

Close up of "Noble's Lake" 2 hours after 1800 gal of water was pumped from top leaving approx 3200 gal of asphaltic sludge. Top of center 6 x 6" brace 2' below edge of structure. (Box 8 x 11 x 8' deep)

Source: SDG&E

June 17, 1955

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June 23, 1955

Source: SDG&E

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Source: SDG&E
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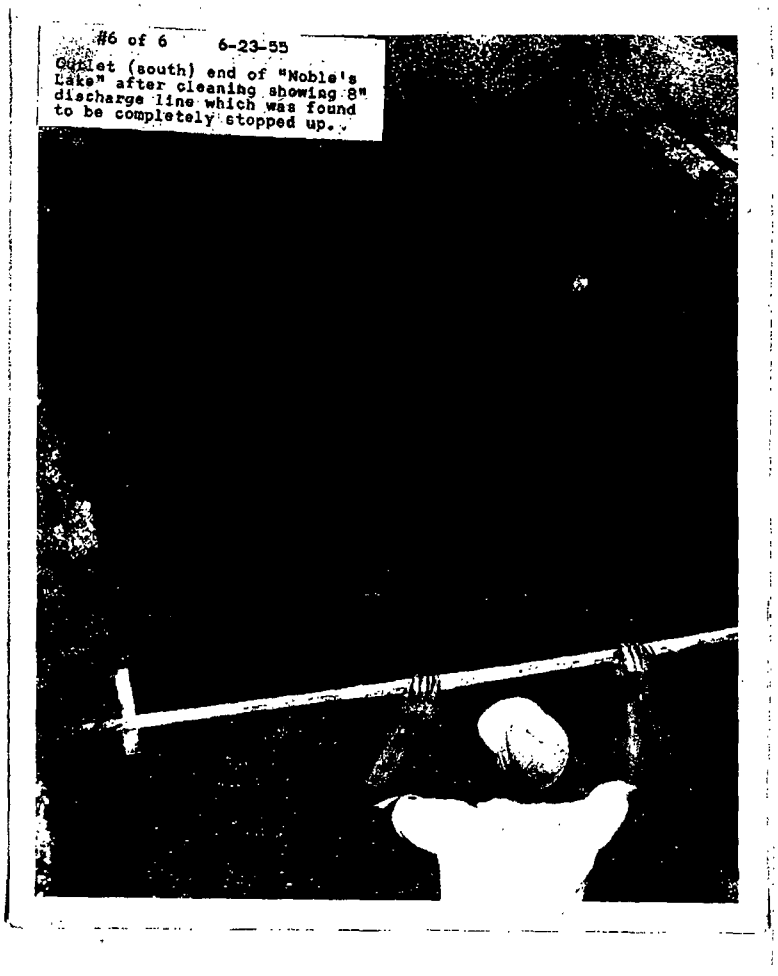
June 23, 1955

SAR1933



Source: SDG&E
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June 23, 1955

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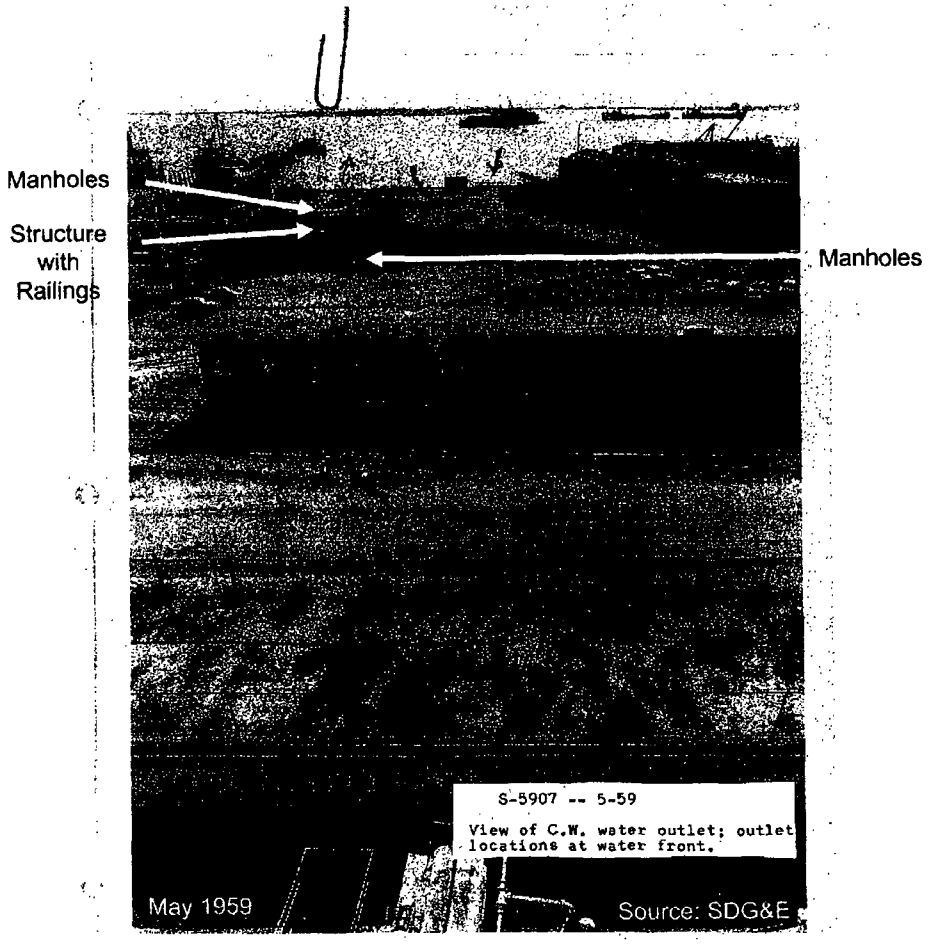

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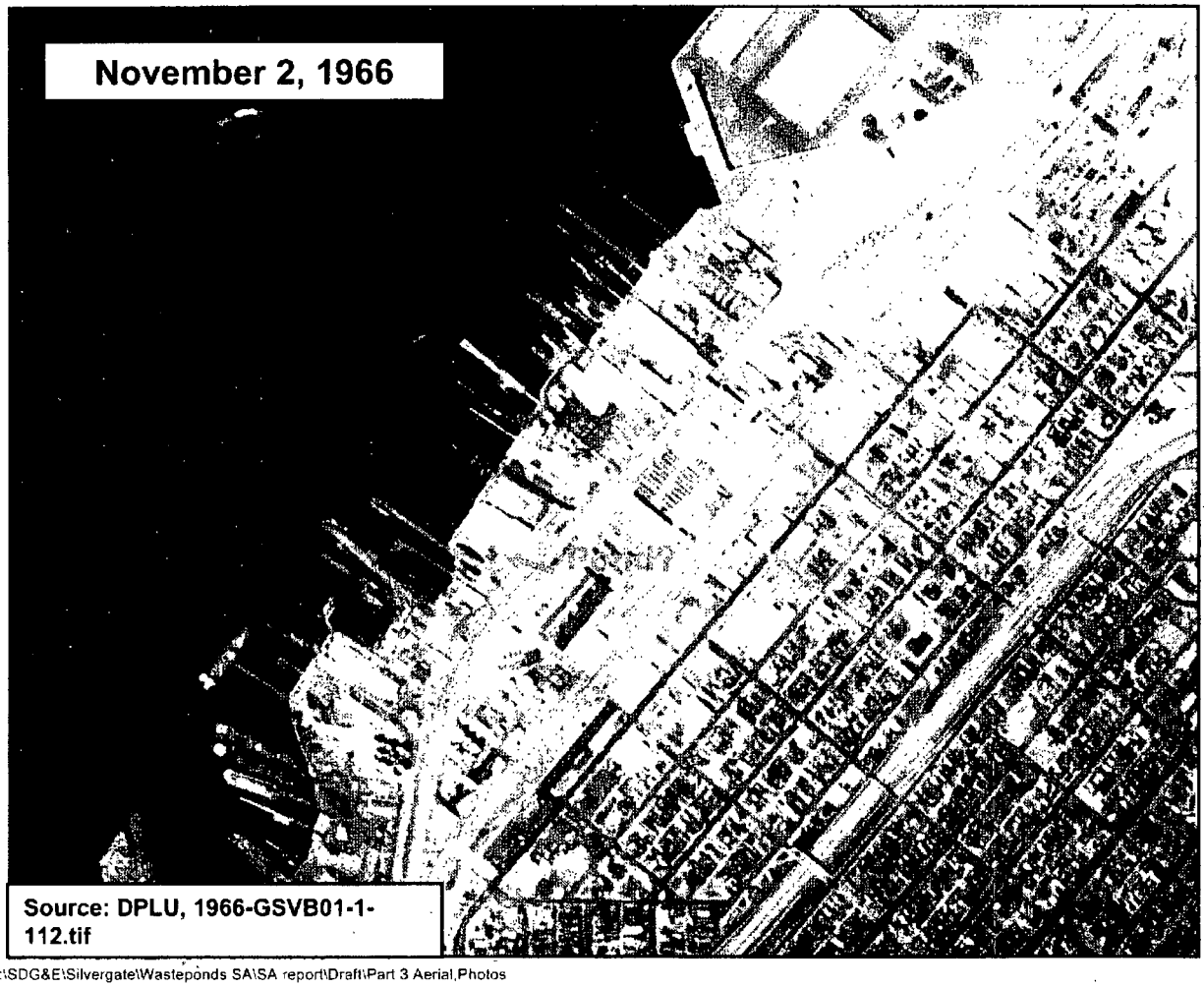

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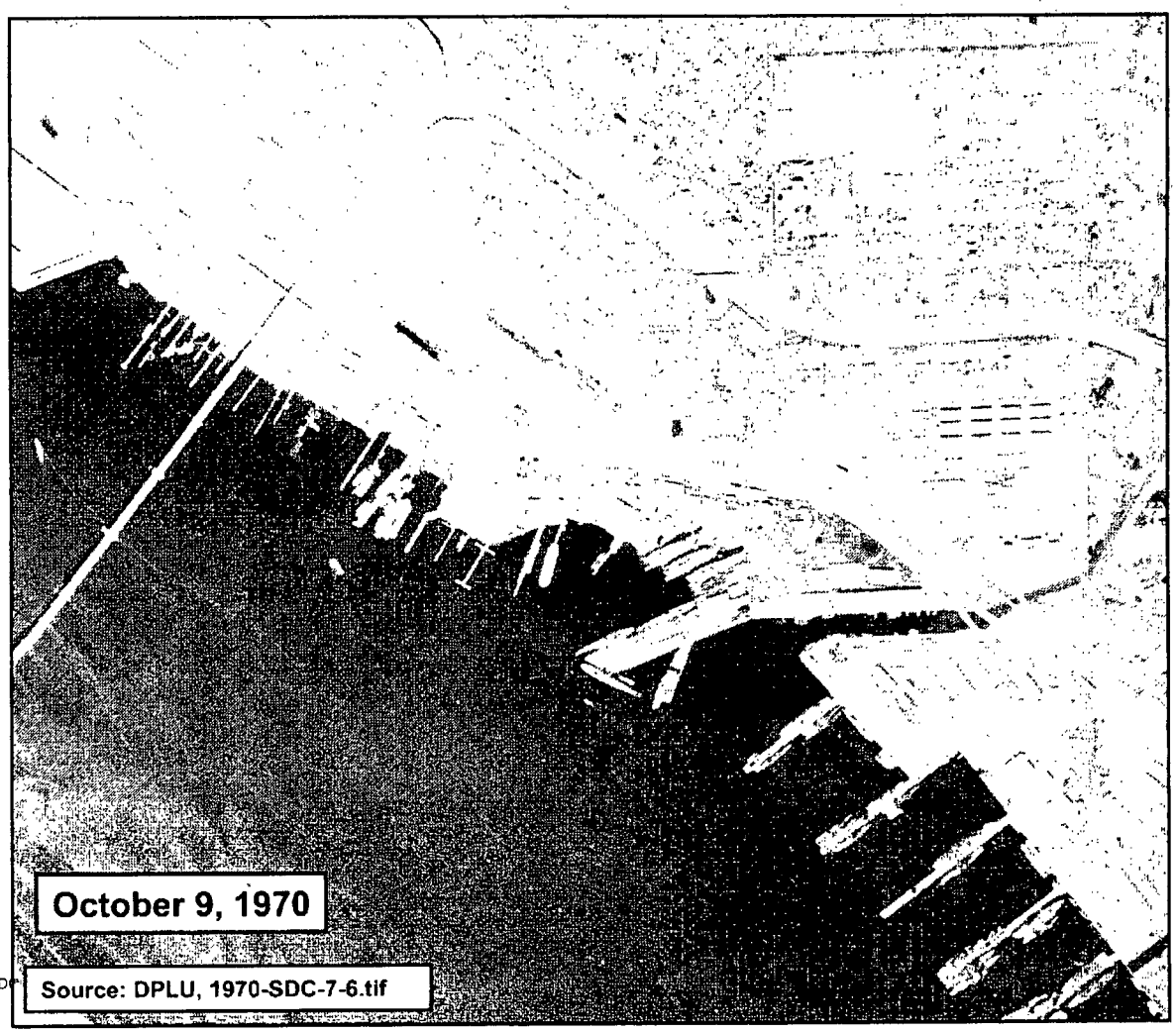

F:\SDC Source: DPLU, 1970-SDC-7-6.tif

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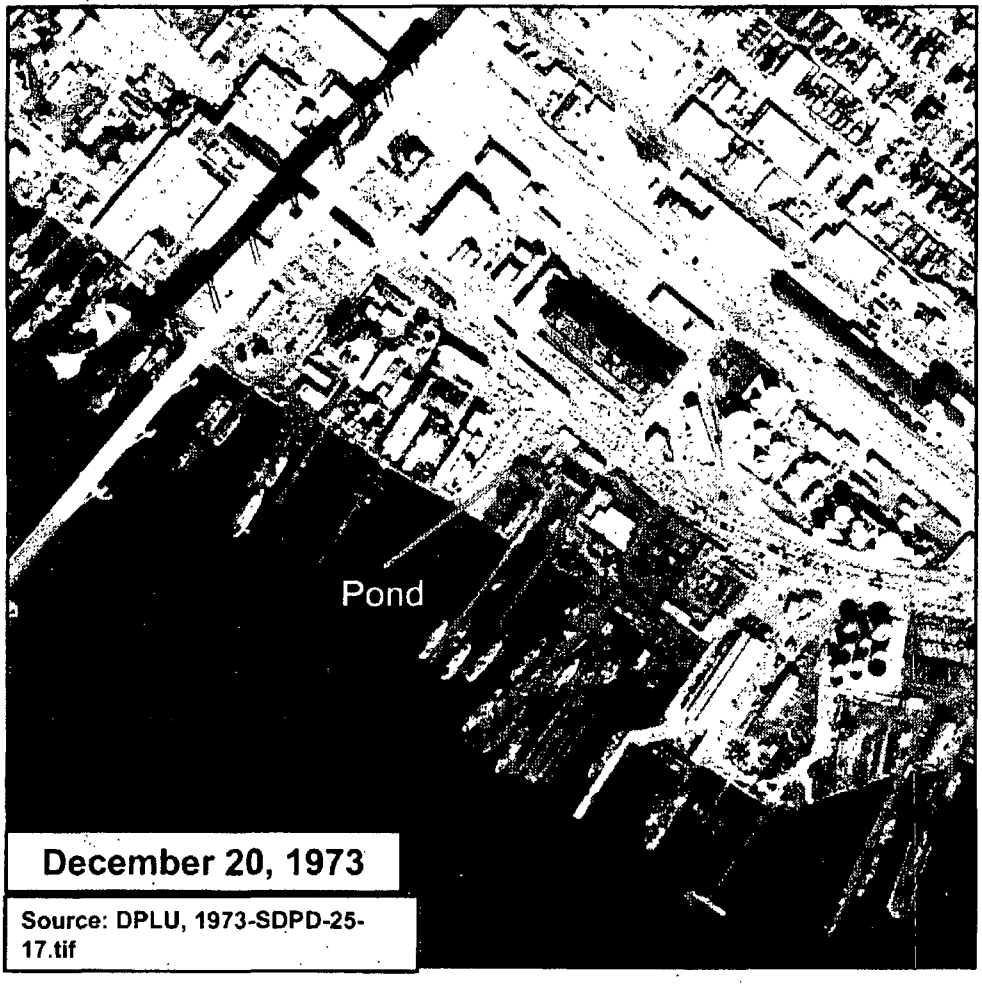

December 20, 1973

Source: DPLU, 1973-SDPD-25-17.tif

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December 20,1973

Source: DPLU, 1973-SDPD-26-5.tif

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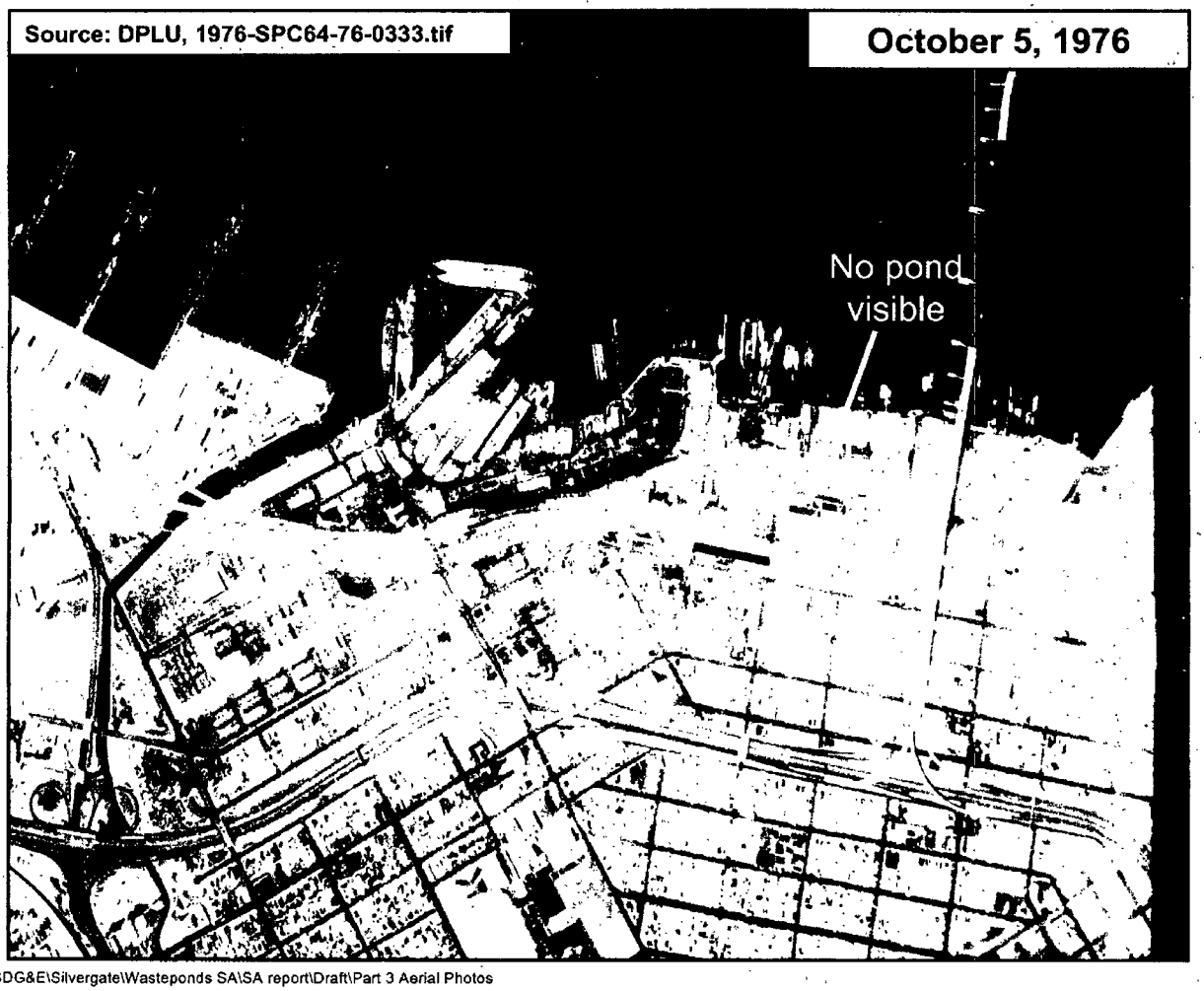

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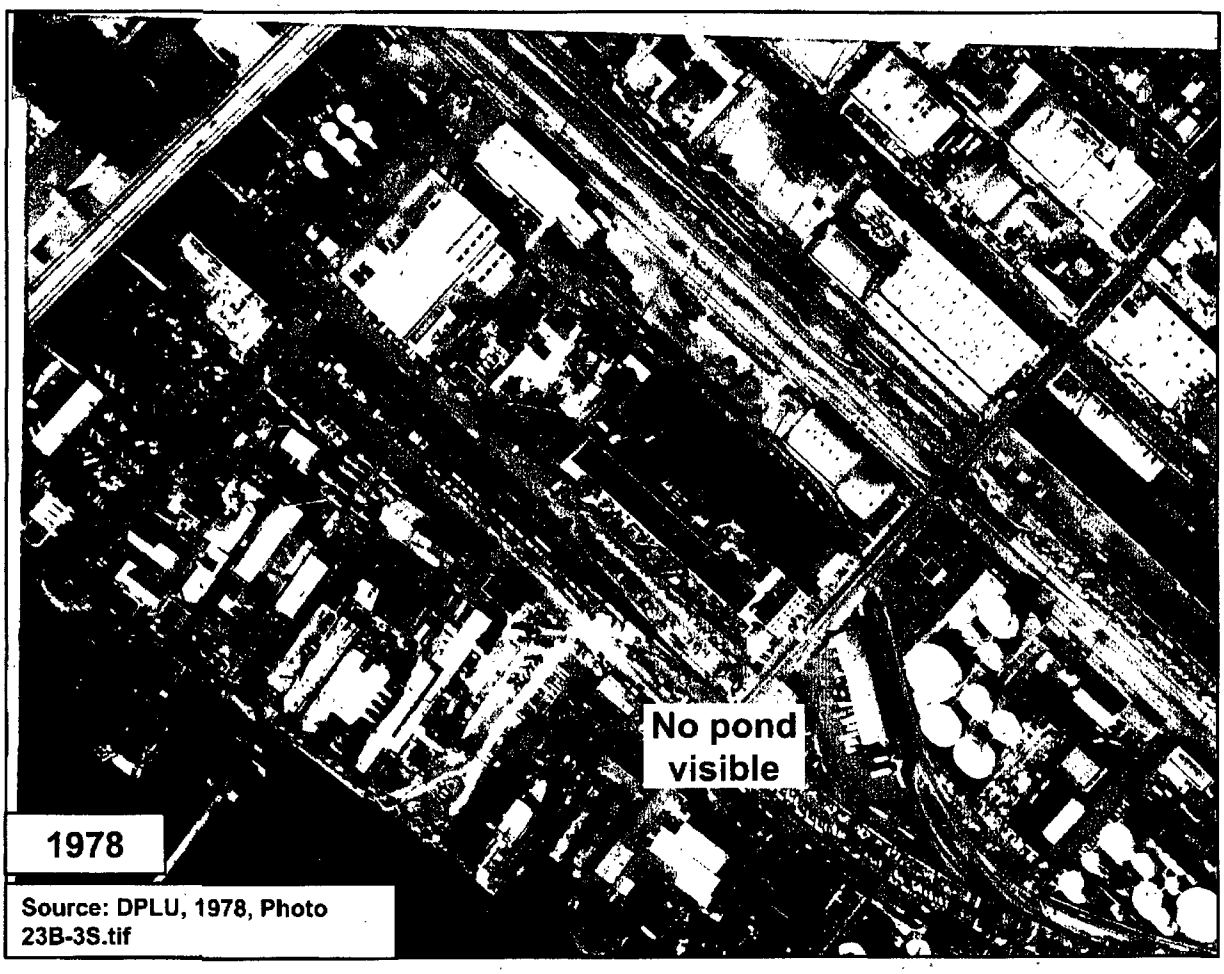

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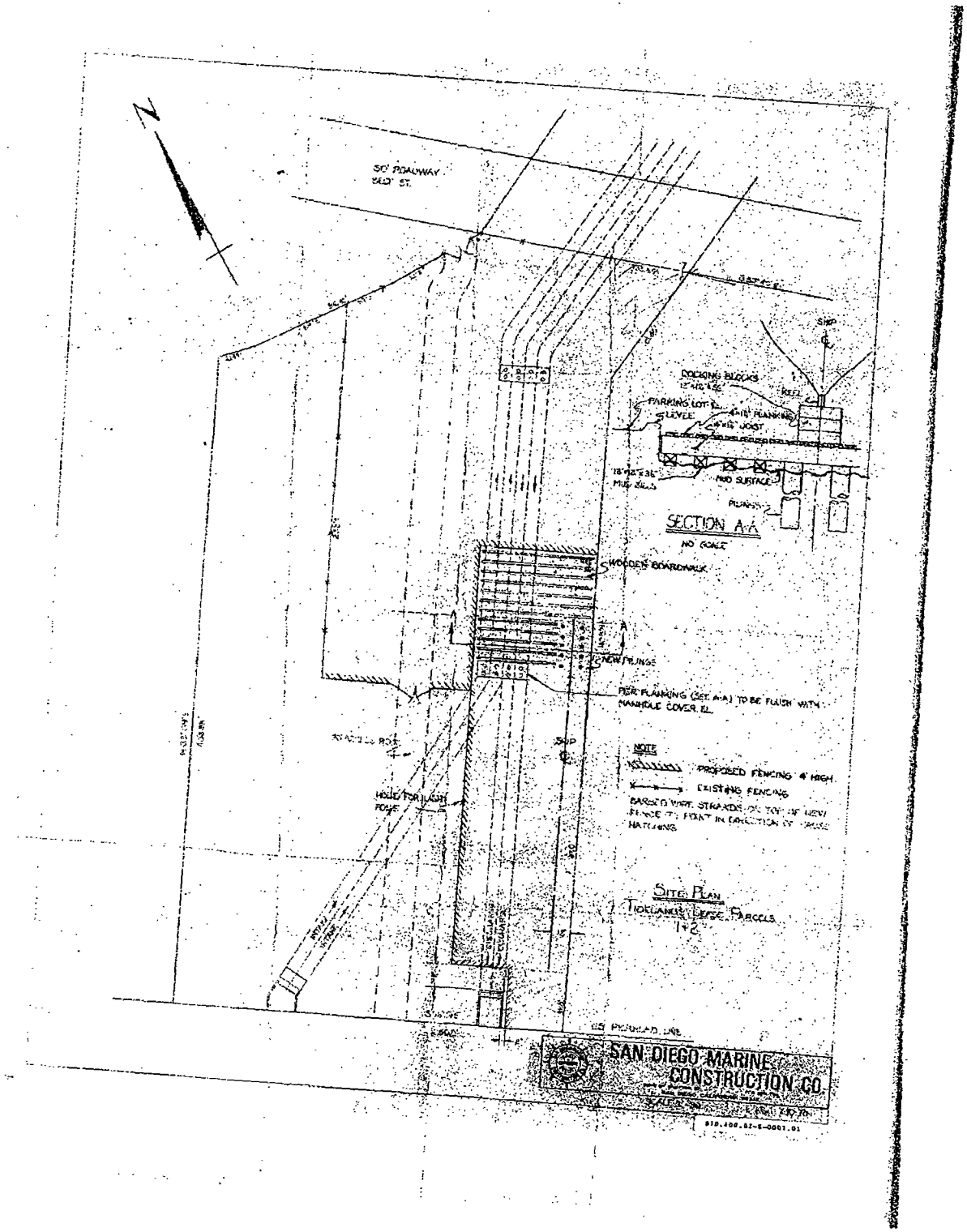
N
50' ROADWAY
SECT. ST.
SHIP
DOCKING BLOCKS
KEEL
PARKING LOT EL.
LEVEE
PLANKING
JOIST
MUD SURFACE
PILINGS
SECTION A-A
NO SCALE
WOODEN BOARDWALK
NEW PILINGS
PER PLANKING (SEE A-A) TO BE FLUSH WITH MANHOLE COVER EL.
SHIP
NOTE
PROPOSED FENCING 4' HIGH
EXISTING FENCING
HOLD FOR LIGHT POLE
SITE PLAN
TIDELANDS LEASE PARCELS
1+2
SAN DIEGO MARINE CONSTRUCTION CO.

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SAN DIEGO GAS & ELECTRIC COMPANY

INTERNAL CORRESPONDENCE

FORM 118-61439

FROM A. W. Hovland DATE September 10, 1974

TO M. J. Horna FILE NUMBER EPE 000

SUBJECT Proposed Bilge System Revision for Oil Spill Prevention at Silver Gate

1.0 INTRODUCTION

Recent State Regulations and also physical changes to the bilge system at Silver Gate have created the need to review alternatives to our existing Bilge System. Specifically, these changes are as follows:

1. The oil-water settling pond known as "Nobles Lake" is presently filled to an overflowing condition, thus the discharge from Silver Gate will eventually find a path to the San Diego Bay.
2. A report by Russell Associates advises a total reconstruction of the pond.

The nature of this memo is to review both of the above comments and to recommend a possible alternate solution. These suggestions are intended to be preliminary and not too detailed. The Mechanical Engineering Section of SDG&E along with Fluor-Pioneer are planning additional studies and engineering on this particular subject.

2.0 SUMMARY

The present system utilizes a common header that ties in 8-turbine room sump pumps and 8-boiler room sump pumps. Their

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San Diego Gas & Electric Company
SEP 12 1974
MECH. ENG. DEPT.

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total capacity is 800 gal/min, although they are seldom if ever used at full rated capacity. The common header is routed via underground 8" pipe on Sampson Street, then to Nobles Lake. See attached Figures 1 for existing Bilge System, and Figure 2 for Nobles Lake location.

Nobles Lake is filled to the brim and is at least 11 feet deep with a mixture of oil and earth. It is no longer an acceptable settling pond. It is not desirable to pump any additional bilge water to it.

The alternative to discharging the bilge to Nobles Lake is as follows. We have three possible storage locations at the Silver Gate plant proper so why not pump the bilge system into either one or more of the holding tanks? These tanks are located in the C.W. Deck void spaces that hold approximately 90,000 gallons, 190,000 gallons and 190,000 gallons. A common header system could be built to tie in both the turbine room sump pumps (presently draining to the C.W. discharge) and the boiler room sump pumps that would pump the bilges directly to any one of the void spaces. These void spaces will act as holding tanks that are periodically pumped out into an oil-water separator. See Figure 3 for proposed configuration.

The Argo International Corporation is marketing a Separation Recovery-System (SRS) that will separate water and oil at

the rate of 10 parts per million oil in water. This system or equivalent could be piped to the Circulating Water System Discharge if at least one CW pump is on (to dilute the concentration to less than 0.1 parts per million) or to the City Sewer System. The latter may require permission from the City of San Diego.

This type of oil separation is used extensively by the Navy to purify bilge water before pumping overboard. It will work for minor oil spills in an oil-water mixture. However, for Major Diesel oil or fuel oil spills, it would quickly clog up and be in-operative. In this event, an overflow indicator on the oil-water separator would shut off the void suction pump, such that oil would be totally contained within the void space. This "secondary" containment of a fuel oil spill would hold the spill until removed by other means (i.e. trucks from Pepper sufficiently equipped to pickup oil spills).

One void that could retain the proposed Bilge System discharge presently contains air-preheater wash which has a relatively high pH that must be neutralized before pumping it to the city sewer system. If this were to be pumped to the proposed oil water separator prior to treatment, it could destroy the filtering elements of the separator. This could be resolved by using the other smaller void space for preheater wash and utilizing the larger void space for the Bilge System.

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Engineering calculations should be made with regard to capacities and flow rates for both effluents.

3.0 CONCLUSIONS

As mentioned above this work is preliminary and requires additional detailed studies by the Mechanical Engineering Section of SDG&E and by Fluor-Pioneer. However, this proposed Bilge System Revision has been discussed and the highlights are as follows:

1. To permanently delete "Nobles Lake" as a settling pond.
2. Re-pipe both boiler and turbine Bilge Systems to the void space on the CW deck.
3. Install an oil-water separator to purify the bilge water before removal from the plant.

For a quick look at the minimum cost of such a proposition, I have renewed a 1972 estimate on labor, man-hours and material costs and have applied appropriate budgetary correction factors. The estimated total estimated cost (in 1975 dollars) of the project is $75,000 including filling in of "Nobles Lake". In view of the high cost, it will probably be postponed beyond the 1975 construction budget. Nevertheless, additional design studies should be made to determine compliance to the law on oil-spill counter-measures.

A.W. Hovland

A. W. Hovland

AWH : gd

cc: PLENGR
H. Bishop
D. Willett
R. Lacy
J.E. Halberg (Fluor-Pioneer)
A. Barnes

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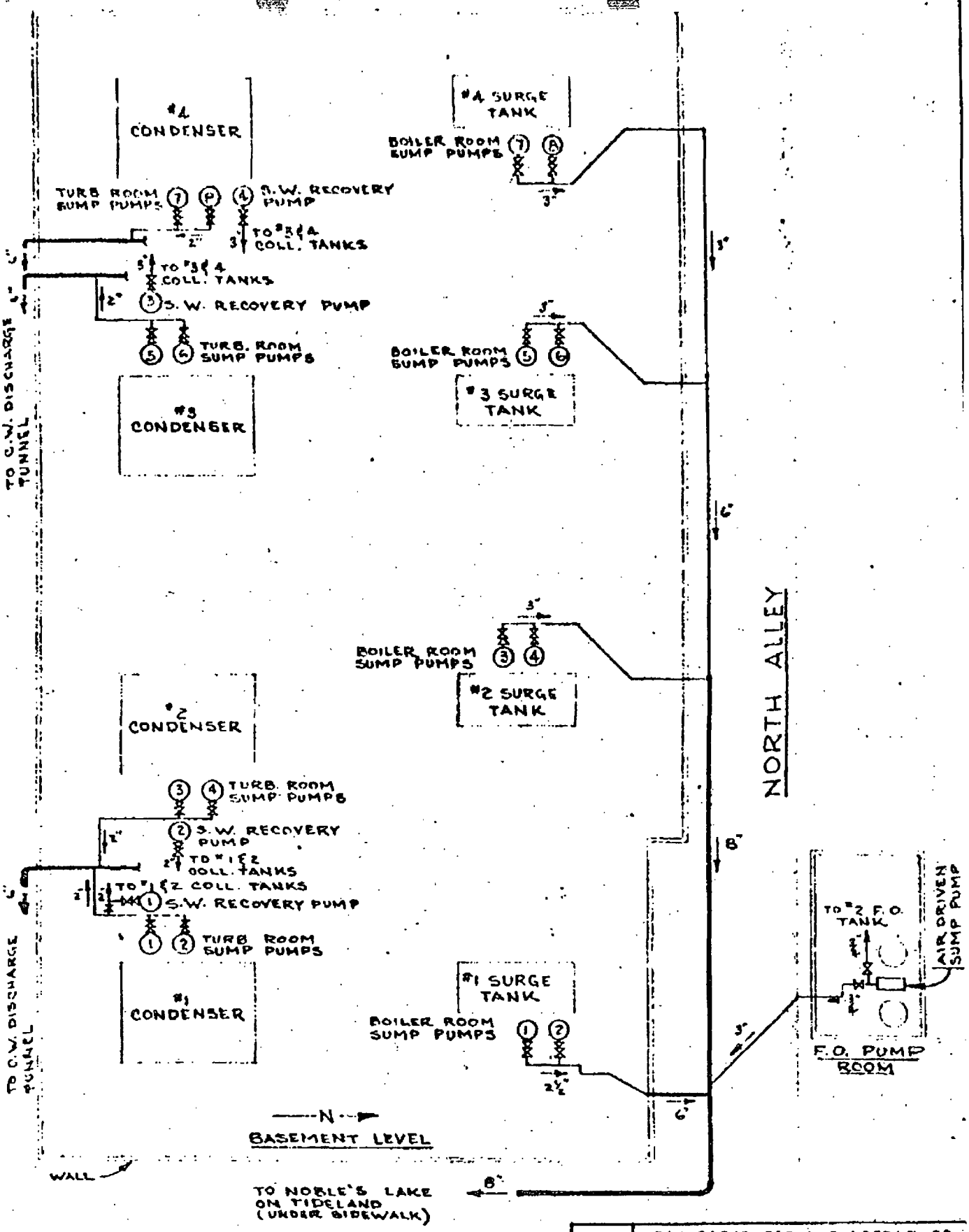

FIG. 1

REV.	SAN DIEGO GAS & ELECTRIC CO E.P. DEPT. SILVER GATE STATION
	BILGE SYSTEM, EXISTING ALL UNITS
	BY RDT / SCALE NONE / E.P. 17000

SAR193398

FIG. 2

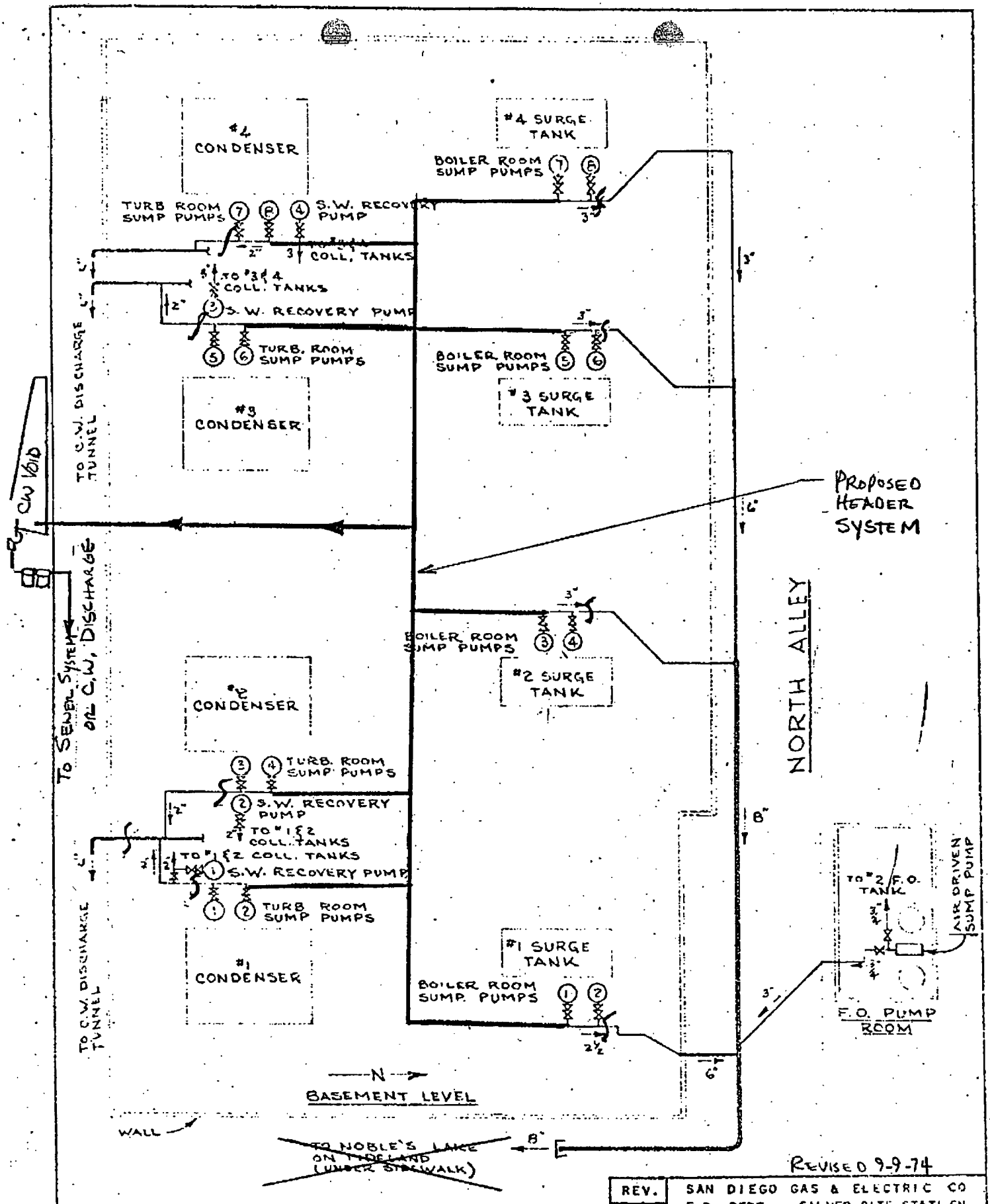

FIG. 3

REVISED 9-9-74

REV.	SAN DIEGO GAS & ELECTRIC CO E.P. DEPT. SILVER GATE STATION
	BILGE SYSTEM PROPOSED ALL UNITS
	BY RDT DATE 9-10-65 / SCALE NONE / E.P. 1700

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Document No. 40224
Filed MAR 20 2000
SD UNIFIED PORT DISTRICT Clerk's Office

TIDELAND USE AND OCCUPANCY PERMIT

THIS PERMIT, granted this 20th day of March, 2000, by the SAN DIEGO UNIFIED PORT DISTRICT, a public corporation, hereinafter called "District," to SAN DIEGO GAS & ELECTRIC COMPANY, hereinafter called "Tenant," WITNESSETH:

District for the considerations hereinafter set forth, hereby grants to Tenant upon the terms and conditions and for the purposes and uses hereinafter set forth, the right to use and occupy a portion of those lands conveyed to the San Diego Unified Port District by that certain Act of the Legislature of the State of California, entitled "San Diego Unified Port District Act," Stats. 1962, 1st Ex. Sess., c. 67, as amended, which lands are more particularly described as follows:

> Approximately 261,591 square feet of tideland area and 6,630 square feet of subsurface tideland area located on the south side of Belt Street west of the foot of Sampson Street in the City of San Diego, California, more particularly delineated on Drawing No. 021-028 dated July 22, 1994, attached hereto as Exhibit "A" and by this reference made a part hereof.

This Permit is granted upon the following terms and conditions:

1. TERM: The term of this Permit shall be for five (5) years, commencing on the 1st day of November, 1999, and ending on the 31st day of October, 2004, unless sooner terminated as herein provided.

2. RENTAL: As and for the rental, Tenant agrees to pay to District the sum of Eleven Thousand Eight Hundred Forty-Five Dollars ($11,845) per month, payable in advance on or before the first (1st) day of each and every month during the term of this Permit.

DUPLICATE - ORIGINAL

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All payments shall be delivered to the Treasurer of the District. Checks shall be made payable to the Treasurer and mailed to the Office of the Treasurer, San Diego Unified Port District, Post Office Box 120488, San Diego, California 92112-0488, or delivered to the Office of the Treasurer, 3165 Pacific Highway, San Diego, California. The designated place of payment and filing may be changed at any time by District upon ten (10) days' written notice to Tenant. Tenant assumes all risk of loss and responsibilities for late charges, as herein described, if payments are made by mail.

Tenant hereby acknowledges that late payment by Tenant to District of rent and other sums due hereunder will cause District to incur costs not contemplated by this Permit. Accordingly, in the event Tenant is delinquent in remitting the rent due in accordance with the rent provisions of this Permit, Tenant shall pay, in addition to the unpaid rent, five percent (5%) of the delinquent rent. If rent is still unpaid at the end of fifteen (15) days, Tenant shall pay an additional five percent (5%) [being a total of ten percent (10%)]. The parties hereby agree that said late charges are appropriate to compensate District for loss resulting from rent delinquency including, without limitation, lost interest, opportunities, legal costs, and the cost of servicing the delinquent account. Acceptance of such late charges and any portion of the late payment by District shall in no event constitute a waiver of Tenant's default with respect to such overdue amount, nor prevent District from exercising any of its other rights and remedies. The Executive Director of District shall have the right to waive for good cause any late charges upon written application of Tenant for any such delinquency period.

All payments by Tenant to District shall be by a good and sufficient check. No payment made by Tenant or receipt or acceptance by District of a lesser amount than the correct amount of rent due under this Permit shall be deemed to be other than a payment on account of the earliest rent due hereunder, nor shall any endorsement or statement on any check or any letter accompanying any check or payment be deemed an accord and satisfaction, and District may accept such check or payment without prejudice to District's right to recover the balance or pursue any other available remedy.

3. USE: The above-described premises shall be used only and exclusively for the following purposes and for no other purposes whatsoever without the prior written consent of the Executive Director of District in each instance.

(a) As to the area delineated as Parcel No. 1 on Exhibit "A":

Tenant agrees that the premises shall be used only and exclusively for the operation and maintenance of underground circulating water tunnels, pipelines and conduits for any and all public utility purposes.

(b) As to the area delineated as Parcel No. 2 on Exhibit "A":

Tenant agrees that the premises shall be used only and exclusively for automobile parking, and operation of underground circulating water tunnels, pipelines and conduits, and necessary aboveground appurtenances and facilities as approved in writing by District.

(c) As to the area delineated as Parcel No. 3 on Exhibit "A":

Tenant agrees that the premises shall be used only and exclusively for the intake and discharge of cooling water associated with the operation of Tenant's adjacent underground improvements, and operation and maintenance of related improvements.

4. **ASSIGNMENT-SUBLEASE-ENCUMBRANCE:** Tenant shall not encumber this Permit, the premises thereof and the improvements thereon by a deed of trust, mortgage, or any other security instrument without the express written consent of the District, evidenced by resolution first had and obtained in each instance. Furthermore, neither the whole nor any part of the rented premises nor any of the rights or privileges granted by this Permit shall be assignable or transferable in any way without such consent. Nor shall Tenant grant any permission to any other person to occupy any portion of the rented premises without such consent. Any such purported assignment, transfer, sublease, encumbrance, or permission given without such consent shall be void as to District.

5. **CHANGES OR ALTERATIONS:** Tenant shall make no changes or alterations in the above-described premises, nor make, erect, or install any buildings, structures, signs, machines, or other improvements on the premises without the consent in writing of the Executive Director of District. Tenant further agrees to provide the proper containers for trash and to keep the premises free and clear of rubbish, debris, and litter at all times.

6. **MAINTENANCE:** Tenant hereby agrees that the premises are in a good and tenantable condition, that Tenant will take good care of the premises and appurtenances, including any personal property belonging to District; and that Tenant, as a part of the consideration for rental stated above, will at Tenant's sole cost and expense keep and maintain said premises, appurtenances, and personal property in good and sanitary condition and repair during the term of this Permit, subject to normal and ordinary wear and tear resulting from the use of the above-described premises as herein provided. District shall at no time during the term of this Permit be required to make any improvements or repairs to the above-described premises.

7. TITLE TO IMPROVEMENTS: For the purposes of this paragraph, "improvements" shall include, but are not limited to, subsurface improvements. On the commencement date of the term of this Permit, all existing structures, buildings, installations, and improvements of any kind located on the above-described premises are owned by and title thereto is vested in Tenant. All said existing structures, buildings, installations, and improvements as well as all structures, buildings, installations, and improvements placed on the above-described premises by Tenant subsequent to the commencement date of the term of this Permit shall at the option of District be removed by Tenant at Tenant's expense within thirty (30) days after the expiration of the term of this Permit or sooner termination thereof. District may exercise said option as to any or all of the structures, buildings, installations, and improvements, either before or after the expiration or sooner termination of this Permit. If District exercises such option and Tenant fails to remove such structures, buildings, installations, and improvements within said thirty (30) days, the District shall have the right to have such structures, buildings, installations, and improvements removed at the expense of Tenant. As to any or all structures, buildings, installations, and improvements owned by Tenant for which District does not exercise said option for removal, title thereto shall vest in District, without cost to District and without payment to Tenant.

Machines, appliances, equipment, and trade fixtures of any kind placed on the above-described premises by Tenant are owned by and title thereto is vested in Tenant and shall be removed by Tenant within thirty (30) days after the expiration of the term of this Permit or sooner termination thereof; provided, however, Tenant agrees to repair any and all damage occasioned by the removal thereof. If any such machines, appliances, equipment, and trade fixtures are not removed within thirty (30) days after the termination of this Permit, the same may be considered abandoned and shall thereupon become the property of District without cost to the District and without payment to Tenant, except that District shall have the right to have the same removed at the expense of Tenant.

During any period of time employed by Tenant under this paragraph to remove structures, buildings, installations, improvements, machines, appliances, equipment and trade fixtures, Tenant shall continue to pay the full rental to District in accordance with this Permit which said rental shall be prorated daily.

8. REMOVAL OF MATERIALS: Tenant hereby agrees that upon the expiration of this Permit or the sooner termination as herein provided, it will remove within thirty (30) days all ships, vessels, barges, hulls, debris, surplus, and salvage materials from the land area and water area forming a part of or adjacent to the above-described

premises, so as to leave the same in as good condition as when first occupied by Tenant, subject to reasonable wear and tear; provided, however, that if any said ships, vessels, barges, hulls, debris, surplus, and salvage materials shall not be so removed within thirty (30) days by Tenant, District may remove, sell, or destroy the same at the expense of Tenant; and Tenant hereby agrees to pay District the cost of such removal, sale, or destruction; or at the option of District, the title to said ships, vessels, barges, hulls, debris, surplus, and salvage materials not removed shall become the property of District.

During any period of time employed by Tenant under this paragraph to remove ships, vessels, barges, hulls, debris, surplus and salvage materials, or test for and/or remediate Contaminants as required in this Permit, Tenant shall continue to pay the full rental to District in accordance with this Permit which said rental shall be prorated daily.

9. TERMINATION: This Permit may be terminated by Executive Director of District or his duly authorized representative or Tenant as a matter of right and without cause at any time upon the giving of one hundred eighty (180) days' notice in writing to the other party of such termination.

10. HOLD HARMLESS: Tenant shall, to the fullest extent permitted by law, defend, indemnify and hold harmless District and its officers, employees, and agents for any and all liability, claims, judgments, or demands arising directly or indirectly out of the obligations undertaken in connection with this Permit, except claims or litigation arising through the sole active negligence or willful misconduct of District. It is the intent of this Paragraph that Tenant indemnify and hold harmless District for any actions of Tenant or District except, for those arising out of the sole active negligence or willful misconduct of District, including but not limited to claims based upon District's alleged breach of any statutory duty or obligation, or Tenant's duty under contracts with third parties. This indemnity obligation shall apply for the entire time that any third party can make a claim against or sue District for liabilities arising out of Tenant's use, occupancy, or operation of the above-described premises, or arising from any defect in any part of said premises.

11. INSURANCE: Tenant shall maintain "OCCURRENCE" form Commercial General Liability Insurance covering premises and operations in the amount of not less than Two Million Dollars ($2,000,000) combined single limit per occurrence for bodily injury, personal injury and property damage suffered or alleged to be suffered by any person or persons whatsoever resulting directly or indirectly from any act or activities of Tenant, of any person acting for it or under its control or direction, or any person authorized by it to use the rented premises. Either the general aggregate limit shall

apply separately to this location or the general aggregate limit shall be twice the required occurrence limit.

All required insurance shall be in force the first day of the term of this Permit. All insurance companies must be satisfactory to District, and the cost of all required insurance shall be borne by Tenant. Certificates in a form acceptable to District evidencing the existence of the necessary insurance policies, and original endorsements effecting coverage required by this clause, shall be kept on file with District during the entire term of this Permit. Certificates for each insurance policy are to be signed by a person authorized by that insurer to issue evidence of coverage on its behalf. Endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The District reserves the right to require complete, certified copies of all required policies at any time.

All liability insurance policies will name, or be endorsed to name, District, its officers, officials and employees as additional insureds and protect District, its officers, officials and employees against any legal costs in defending claims. All insurance policies will be endorsed to state that coverage will not be suspended, voided, canceled, reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested has been given to the District. And, all insurance policies will be endorsed to state that Tenant's insurance is primary and not excess or contributing to any insurance issued in the name of District.

Any deductibles or self-insured retentions must be declared and acceptable to the District. At the option of the District, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the District, its officers, officials, and employees; or, the Tenant shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

District shall retain the right at any time to review the coverage, form, and amount of the insurance required hereby. If, in the opinion of District, the insurance provisions in this Permit do not provide adequate protection for District and/or for members of the public, District may require Tenant to obtain insurance sufficient in coverage, form and amount to provide adequate protection. District's requirements shall be reasonable but shall be designed to assure protection from and against the kind and extent of risk which exist at the time a change in insurance is required.

District shall notify Tenant in writing of changes in the insurance requirements and, if Tenant does not deposit certificates evidencing acceptable insurance policies with District incorporating such changes within sixty (60) days of receipt of such notice,

this Permit shall be in default without further notice to Tenant, and District shall be entitled to all legal remedies.

The procuring of such required policies of insurance shall not be construed to limit Tenant's liability hereunder, nor to fulfill the indemnification provisions and requirements of this Permit. Notwithstanding said policies of insurance, Tenant shall be obligated for the full and total amount of any damage, injury, or loss caused by negligence or neglect connected with this Permit or with the use or occupancy of the rented premises.

12. TAXES AND UTILITIES: This Permit may result in a taxable possessory interest and be subject to the payment of property taxes. Tenant agrees to and shall pay before delinquency all taxes and assessments of any kind assessed or levied upon Tenant or the above-described premises by reason of this Permit or of any buildings, machines, or other improvements of any nature whatsoever erected, installed, or maintained by Tenant or by reason of the business or other activities of Tenant upon or in connection with the above-described premises. Tenant shall also pay any fees imposed by law for licenses or permits for any business or activities of Tenant upon the above-described premises or under this Permit, and shall pay before delinquency any and all charges for utilities at or on the above-described premises.

13. CONFORMANCE WITH RULES AND REGULATIONS: In all activities on or in connection with the premises and in all uses thereof, including activities and uses relating to aviation, Tenant shall abide by and conform to all provisions of the San Diego Unified Port District Act; any ordinances of the city in which the above-described premises are located, including the Building Code thereof; any ordinances, rules, and regulations of District; and any applicable laws of the State of California or Federal Government; as any of the same now exist or may hereafter be adopted or amended.

District shall not be liable to Tenant for any diminution or deprivation of its rights hereunder on account of any such laws, ordinances, statutes, rules, regulations, orders, limitations, restrictions, or prohibitions. In the event, however, that any such laws, ordinances, statutes, rules, regulations, orders, limitations, restrictions, or prohibitions shall so interfere with the conduct of Tenant's activities and business operations under this Permit by operation of law in accordance with the laws of the State of California, Tenant shall have the right to terminate this Permit by giving thirty (30) days' notice in writing of such termination. Such termination, however, shall not relieve the Tenant of any of its obligations and duties arising out of this Permit during Tenant's use and occupancy of the premises, including without limitation its responsibility and liability regarding hazardous substances and wastes, and its

obligation to defend, indemnify and hold the District harmless as provided in this Permit.

14. POLICY OF DISTRICT: It is the policy of District that prevailing wage rates shall be paid all persons who are employed by Tenant on the property of District.

15. DEFAULT: If any default be made in the payment of the rental herein provided or in the fulfillment of any terms, covenants, or conditions hereof, and said default is not cured within ten (10) days after written notice thereof, this Permit shall immediately terminate and Tenant shall have no further rights hereunder and shall immediately remove from said premises; and District shall immediately thereupon, without recourse to the courts, have the right to reenter and take possession of said premises. District shall further have all other rights and remedies as provided by law, including without limitation the right to recover damages from Tenant in the amount necessary to compensate District for all the detriment proximately caused by Tenant's failure to perform its obligations under this Permit or which in the ordinary course of things would be likely to result therefrom.

16. LIENS: Tenant agrees that it will at all times save District free and harmless and defend and indemnify it against all claims and liens for labor, services or materials in connection with improvements, repairs, or alterations on the premises caused to be performed by Tenant, and the costs of defending against such claims, including reasonable attorney's fees.

17. BANKRUPTCY: In the event Tenant commences a proceeding under Chapter XI of the Federal Bankruptcy Act, or is adjudicated bankrupt or insolvent, or a judicial sale is made of Tenant's interest under this Permit, this Permit shall at the option of District immediately terminate and all rights of Tenant hereunder shall immediately cease and terminate.

18. EASEMENTS: This Permit and all rights given hereunder shall be subject to all easements and rights-of-way now existing or heretofore granted or reserved by District in, to, or over the premises for any purpose whatsoever, and shall be subject to such rights-of-way for reasonable access, sewers, pipelines, conduits, and such telephone, telegraph, light, heat, or power lines as may from time to time be determined by District to be in the best interests of the development of the tidelands.

District agrees that such easements and rights-of-way shall be so located and installed as to produce a minimum amount of interference to the business of Tenant.

19. TITLE OF DISTRICT: District's title is derived from the provisions of the San Diego Unified Port District Act, Appendix 1, Harbors & Navigation Code, and is subject to the provisions of said Act. This Permit is granted subject to the terms and conditions of said Act.

20. JOINT AND SEVERAL LIABILITY: If Tenant, as a party to this Permit, is a partnership or joint venture, or is comprised of more than one party or entity or a combination thereof, the obligations imposed on Tenant under this Permit shall be joint and several, and each general partner, joint venturer, party, or entity of Tenant shall be jointly and severally liable for said obligations. Furthermore, nothing contained herein shall be deemed or construed as creating a partnership or joint venture between District and Tenant or between District and any other entity or party, or cause District to be responsible in any way for the debts or obligations of Tenant, or any other party or entity.

21. NONDISCRIMINATION: Tenant agrees at all times to fully comply with all laws prohibiting discrimination against any person or class of persons by reason of sex, color, race, religion, handicap or national origin. If the use provided for in this Permit allows the Tenant to offer accommodations or services to the public, such accommodations or services shall be offered by the Tenant to the public on fair and reasonable terms. In complying with all such laws, including, without limitation, the Americans With Disabilities Act of 1990, Tenant shall be solely responsible for such compliance and required programs and there shall be no allocation of any such responsibility between District and Tenant.

22. ENTIRE UNDERSTANDING: This Permit contains the entire understanding of the parties, and Tenant, by accepting the same, acknowledges that there is no other written or oral understanding between the parties in respect to the above-described premises. No modification, amendment, or alteration of this Permit shall be valid unless it is in writing and signed by the parties hereto.

23. PEACEABLE SURRENDER: Upon the termination of this Permit by the expiration thereof or the earlier termination as by the terms of this Permit provided, Tenant will peaceably surrender said above-described premises in as good condition, subject to normal and ordinary wear and tear resulting from the use of such premises as herein provided, as the same may be at the time Tenant takes possession thereof, and to allow District to take peaceable possession thereof.

24. HOLDOVER: This Permit shall terminate without further notice at expiration of the term. Any holding over by Tenant after either expiration or termination shall not constitute a renewal or extension or give Tenant any rights in or to the premises. If

Tenant, with District's consent, remains in possession of the premises after expiration or termination of the term or after the date in any notice given by District to Tenant terminating this Permit, such possession by Tenant shall be deemed to be a month-to-month tenancy terminable on thirty (30) days' notice given at any time by either party. During any such month-to-month tenancy, Tenant shall pay all rent required by this Permit; and if percentage rent is required by the Permit, it shall be paid monthly on or before the tenth (10th) day of each month.

All provisions of this Permit, except those pertaining to term, shall apply to the month-to-month tenancy.

25. ACCEPTANCE OF PREMISES: BY SIGNING THIS PERMIT, TENANT REPRESENTS AND WARRANTS THAT IT HAS INDEPENDENTLY INSPECTED THE PREMISES AND MADE ALL TESTS, INVESTIGATIONS AND OBSERVATIONS NECESSARY TO SATISFY ITSELF OF THE CONDITION OF THE PREMISES. TENANT AGREES IT IS RELYING SOLELY ON SUCH INDEPENDENT INSPECTION, TESTS, INVESTIGATIONS AND OBSERVATIONS IN MAKING THIS PERMIT. TENANT ALSO ACKNOWLEDGES THAT THE PREMISES ARE IN THE CONDITION CALLED FOR BY THIS PERMIT, THAT DISTRICT HAS PERFORMED ALL WORK WITH RESPECT TO PREMISES AND THAT TENANT DOES NOT HOLD DISTRICT RESPONSIBLE FOR ANY DEFECTS IN THE PREMISES. TENANT FURTHERMORE ACCEPTS AND SHALL BE RESPONSIBLE FOR ANY RISK OF HARM TO ANY PERSON AND PROPERTY, INCLUDING WITHOUT LIMITATION EMPLOYEES OF TENANT, FROM ANY LATENT DEFECTS IN THE PREMISES. Initial: District Tenant

26. WARRANTIES-GUARANTEES: District makes no warranty, guarantee, covenant, including but not limited to covenants of title and quiet enjoyment, or averment of any nature whatsoever concerning the condition of the above-described premises, including the physical condition thereof, or any condition which may affect the above-described premises; and it is agreed that District will not be responsible for any loss or damage or costs which may be incurred by Tenant by reason of any such condition or conditions.

27. ATTORNEY'S FEES: In the event any suit is commenced to enforce, protect or establish any right or remedy of any of the terms and conditions hereof, including without limitation a summary action commenced by District under the laws of the State of California relating to the unlawful detention of property, the prevailing party shall be entitled to have and recover from the losing party reasonable attorney's fees and costs of suit.

28. TERMINATION OF PRIOR AGREEMENT: It is mutually agreed that, on the effective date of this Permit, that certain Tideland Use and Occupancy Permit made and entered into on the 22nd day of November, 1994, and filed in the Office of the District Clerk as Document No. 32139, between District and Tenant is hereby terminated. Any rights, duties and obligations of the parties, if any, pursuant to the terms, covenants and conditions in such hereby terminated permit shall remain enforceable and subject to all defenses, including without limitation any applicable stature of limitations, which said statute shall not be waived or extended because of this Permit. Nothing herein is intended nor shall be construed as a waiver of any such rights, or as a release of any such duties or obligations, whether known or unknown at this time, or upon the effective date of this Permit.

29. HAZARDOUS MATERIALS: Tenant shall comply with all laws regarding hazardous substances, materials or wastes, or petroleum products or fraction thereof (herein collectively referred to as "Contaminants") relative to occupancy and use of the premises. Tenant shall be liable and responsible for any Contaminants arising out of the occupancy or use of the premises by Tenant. Such liability and responsibility shall include, but not be limited to, (i) removal from the premises any such Contaminants; (ii) removal from any area outside the premises, including but not limited to surface and groundwater, any such Contaminants generated as part of the operations on the premises; (iii) damages to persons, property and the premises; (iv) all claims resulting from those damages; (v) fines imposed by any governmental agency, and (vi) any other liability as provided by law. Tenant shall defend, indemnify and hold harmless the District, its officials, officers, agents, and employees from any and all such responsibilities, damages, claims, fines, liabilities, including without limitation any costs, expenses and attorney's fees therefor. District shall have a direct right of action against Tenant even if no third party has asserted a claim. Furthermore, District shall have the right to assign said indemnity.

If Tenant has in the past or continues to use, dispose, generate, or store Contaminants on the premises, District, or its designated representatives, at District's sole discretion, may at any time during the term of this Permit, enter upon the premises and make any inspections, tests or measurements District deems necessary in order to determine if a release of Contaminants has occurred. District shall give Tenant a minimum of twenty-four (24) hours' notice in writing prior to conducting any inspections or tests, unless, in District's sole judgment, circumstances require otherwise, and such tests shall be conducted in a manner so as to attempt to minimize any inconvenience and disruption to Tenant's operations. If such tests indicate a release of Contaminants, then District, at District's sole discretion, may require Tenant, at Tenant's sole expense, and at any time during the term of this Permit, to have tests for such Contaminants conducted by a qualified party or parties on the premises. If District has reason to believe that any

Contaminants that originated from a release on the premises have contaminated any area outside the premises, including but not limited to surface and groundwater, then District, at District's sole discretion, may require Tenant, at Tenant's sole expense, and at any time during the term of this Permit, to have tests for such Contaminants conducted by a qualified party or parties on said area outside the premises.

The tests conducted by Tenant's qualified party shall include, but not be limited to, applicable comprehensive soil, emission, or groundwater sampling test or other procedures to determine any actual or possible contamination. Tenant shall expeditiously, but no longer than thirty (30) days after District's request for such tests, furnish to District the results of said tests, sampling plans, and analysis thereof identifying any Contaminants which exceed then applicable levels permitted by federal, state, or local laws. Tenant shall report such contamination to the District within seventy-two (72) hours and shall diligently proceed to identify the extent of contamination, how it will be remediated, when it will be remediated, by whom, and the cost of such remediation.

30. UNDERGROUND STORAGE TANKS: In the event any underground storage tanks are located on the premises or hereinafter placed on the premises by any party during the term or extension of this Permit, Tenant shall be responsible for tank monitoring of all such underground storage tanks as required by the County of San Diego Hazardous Material Management Division (HMMD) or any other responsible agency. Tenant further agrees to take responsibility for reporting unauthorized releases to HMMD and the District within twenty-four (24) hours of such unauthorized release. Tenant will be responsible for all fees and costs related to the unauthorized release of Contaminants including but not limited to investigative, surface and groundwater cleanup, and expert and agency fees. Tenant shall maintain evidence of financial responsibility for taking corrective action and for compensating third parties for bodily injury and property damage caused by a release from the underground tank system. Tenant further agrees to be responsible for maintenance and repair of the storage tanks, obtaining tank permits, filing a business plan with HMMD or other responsible agency and for paying underground storage tank fees, permit fees, and other regulatory agency fees relating to underground storage tanks.

Tenant agrees to keep complete and accurate records on the premises for a period of not less than thirty-six (36) months from the applicable events, including, but not limited to permit applications, monitoring, testing, equipment installation, repairing and closure of the underground storage tanks, and any unauthorized releases of Contaminants and make such records available for District or responsible agency inspection. Tenant further agrees to include a copy of Health and Safety Code,

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Chapter 6.7, Section 25299, as part of any agreement between Tenant and any Operator of such underground storage tanks.

Furthermore, Tenant shall be responsible for compliance with all other laws and regulations presently existing or hereinafter enacted applicable to underground storage tanks, including without limitation any such laws and regulations which alter any of the above requirements.

31. ABOVEGROUND STORAGE TANKS: Tenant shall be responsible for any aboveground storage tanks on the premises. Tenant shall, in accordance with this Permit and applicable laws and regulations, secure and pay for all necessary permits and approvals, prepare a spill prevention control counter measure plan and conduct periodic inspections to ensure compliance therewith, including conformance with the latest version of said laws and regulations. In addition, Tenant shall maintain and repair said tanks and conform and comply with all other applicable laws and regulations for aboveground storage tanks, including without limitation all of the requirements of Health & Safety Code, Sections 25270 through 25170.13 as presently existing or as hereinafter amended, including without limitation conducting daily visual inspection of said tanks, allowing the San Diego Regional Water Quality Control Board, District, or responsible agency, to conduct periodic inspections and complying with valid orders of said Board, filing the required storage tank statement and payment of the fee therefor, establishing and maintaining the required monitoring program and systems, reporting spills as required, and payment of lawfully imposed penalties as provided therein and as otherwise provided by law. Tenant shall be responsible for all costs associated with an unauthorized release from such tanks, including but not limited to, investigative, surface and groundwater cleanup, expert and agency fees.

32. NOTICES: Any notice or notices provided for by this Permit or by law to be given or served upon Tenant may be given or served by certified or registered letter addressed to Tenant at Post Office Box 1831, San Diego, California 92112 and deposited in the United States mail, or may be served personally upon said Tenant or any person hereafter authorized by it in writing to receive such notice; and that any notice or notices provided for by this Permit or by law to be served upon District may be given or served by certified or registered letter addressed to Executive Director of District at the Administrative Offices of the San Diego Unified Port District, Post Office Box 120488, San Diego, California 92112-0488 and deposited in the United States mail, or may be served personally upon said Executive Director or his duly authorized representative; and that any notice or notices given or served as provided herein shall be effectual and binding for all purposes upon the parties so served.

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33. **SECTION HEADINGS:** The section headings contained herein are for convenience in reference and are not intended to define or limit the scope of any provision hereof.

34. **SIGNATURE OF PARTIES:** It is an express condition of this Permit that said Permit shall not be complete nor effective until signed by either the Executive Director or his authorized designee on behalf of District and by other party.

Port Attorney

By Ellen Corey Bor

DEPUTY PORT ATTORNEY

SAN DIEGO UNIFIED PORT DISTRICT

By [signature]

SENIOR DIRECTOR, REAL ESTATE OPERATIONS

SAN DIEGO GAS & ELECTRIC COMPANY

By James W. Shepard

Title: LAND RIGHTS ACQUISITION MANAGER

F:\Property\San Diego Gas & Electric (TUOP) FX Dist St. Near Sampson\Documents\TUOP-110180.doc

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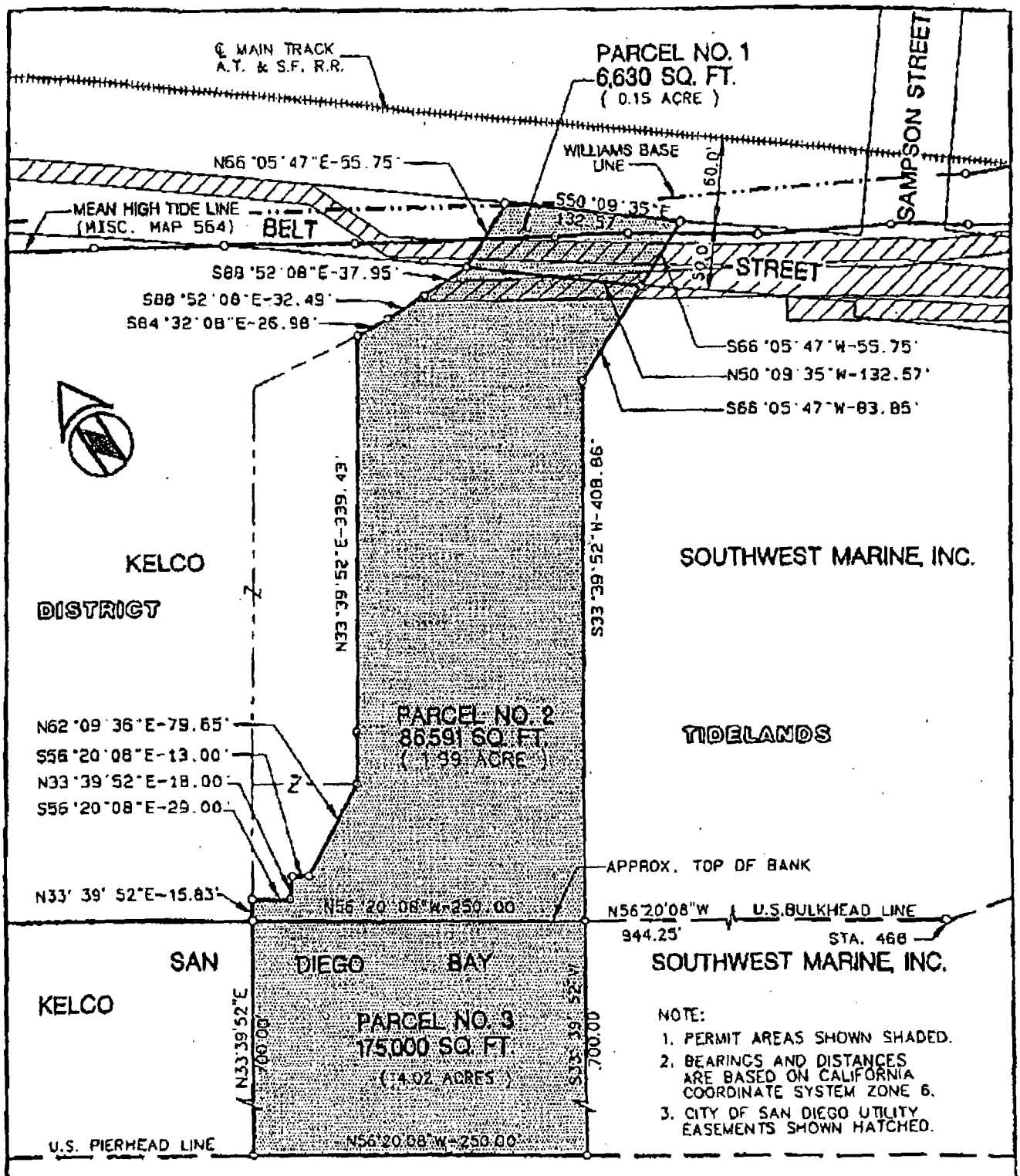

DRAWN JFD CHECKED ATS REVIEWED APPROVED DIRECTOR OF ENGINEERING	SAN DIEGO UNIFIED PORT DISTRICT TIDELAND USE AND OCCUPANCY PERMIT WITHIN CORPORATE LIMITS OF SAN DIEGO SAN DIEGO GAS AND ELECTRIC COMPANY	DATE 22 JULY 1994 SCALE 1"=100' REF. 3339-8, 2E-21 DRAWING NO. 021-028

EXHIBIT B

EXHIBIT B

SAR1934

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EXHIBIT B

BORING LOGS
For Borings B2 through B8

Project: SDG&E Silver Gate Tidelands Lease Parcel Boring: B-2 Pg. 1 of 1

Drilling Co: Gregg Drilling Drilling Method: Direct Push Logged by: R. Lesher

Date Started: 8/7/03 Sampling Method: Continuous Core Approved by: T. Mulder

Date Completed: 8/7/03 Hole Diameter: 2" Surface Elevation: NM

Depth in feet	Sample ID	Sample Time	Samples	PID	Recovery	Water Levels	GRAPHIC	USCS	DESCRIPTION
0									Surface: 6" asphalt
1									@ 0.5' POORLY GRADED SAND (SP): light yellowish brown fine sand, 80% fine sand, 5% fines (clays & silt), 5% shell fragments, black staining and slight petroleum odor from 2' to 4', moist
2	B2-2.0	1110		56.8	36"				
3	B2-3.0	1110						SP	
4									
5									
6		1115		33.2	36"				@ 6' CLAYEY SAND (SC): increase in clay content to approximately 20%, very hard, no staining or odor, 5% shell fragments, saturated from 9' to 10'
7									
8	B2-8.0	1115						SC	
9									
10		1120		75.8	36"	▼			
11									@ 11' POORLY GRADED SAND (SP): light yellowish brown fine sand, 80% fine sand, 5% fines (clays & silt), 5% shell fragments, moist
12									
13								SP	
14					24"				
15	B2-080703	1130							
16	B9-080703	1200							
17									TOTAL DEPTH 16 FEET GROUNDWATER ENCOUNTERED AT 10 FEET

Backfill:



NOTES: Screen from 12 to 16 feet for groundwater sample collection using disposable casing/tubing and peristaltic pump; B9-080703 is a duplicate of Sample B2-080703

ENV AMERICA
ENVIRONMENTAL ENGINEERING, CONSULTING & CONSTRUCTION

BORING LOG

Project Location	Foot of Sampson Street San Diego, California	Project No.	Last Revised
		SDG-01-T002	6/21/2004

LOG OF BORING SILVER GATE TIDELANDS BORING LOGS.GPJ ENV AMERICA.GDT 6/22/04

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63732 SAR193418

Project: SDG&E Silver Gate Tidelands Lease Parcel Boring: B-3 Pg. 1 of 1

Drilling Co: Gregg Drilling Drilling Method: Direct Push Logged by: R. Lesher

Date Started: 8/7/03 Sampling Method: Continuous Core Approved by: T. Mulder

Date Completed: 8/7/03 Hole Diameter: 2" Surface Elevation: NM

Depth in feet	Sample ID	Sample Time	Samples	PID	Recovery	Water Levels	GRAPHIC	USCS	DESCRIPTION	Backfill:
0									Surface: 6" asphalt	Cold Patch Asphalt
1									@ 0.5' POORLY GRADED SAND (SP): dark brown, 80% fine sand, occasional gravel up to 2" in diameter, no odor, small black stains	
2	B3-2.0	1330		102	24"			SP		
3									@ 3' POORLY GRADED SAND (SP): light yellowish brown fine sand, 80% fine sand, occasional gravel up to 2" in diameter, shell fragments, no odor, small black stains	
4	B3-4.0	1330		891						
5										
6		1340		750	12"				@ 6': Some chunks of concrete in sampler - poor recovery	
7										
8										
9	B3-9.0	1345				▼		SP		Hydrated Bentonite (0.3 ft³)
10		1345			43"					
11										
12										
13										
14		1350			36"					
15										
16	B3-080703	1400							TOTAL DEPTH 16 FEET GROUNDWATER ENCOUNTERED AT 9 FEET	
17										

NOTES: Screen from 12 to 16 feet for groundwater sample collection using disposable casing/tubing and peristaltic pump

ENV AMERICA
ENVIRONMENTAL ENGINEERING, CONSULTING & CONSTRUCTION

BORING LOG

Project Location	Project No.	Last Revised
Foot of Sampson Street San Diego, California	SDG-01-T002	6/21/2004

LOG OF BORING SILVER GATE TIDELANDS BORING LOGS.GPJ ENV AMERICA.GDT 6/22/04

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SAR193419

Project: SDG&E Silver Gate Tidelands Lease Parcel Boring: B-4 Pg. 1 of 1

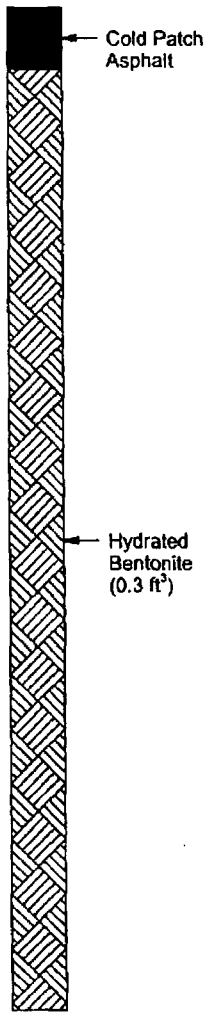
Drilling Co: Gregg Drilling Drilling Method: Direct Push Logged by: R. Lesher

Date Started: 8/7/03 Sampling Method: Continuous Core Approved by: T. Mulder

Date Completed: 8/7/03 Hole Diameter: 2" Surface Elevation: NM

Depth in feet	Sample ID	Sample Time	Samples	PID	Recovery	Water Levels	GRAPHIC	USCS	DESCRIPTION
0									Surface: 6" asphalt
1									
2					36"				Concrete obstruction at ~2'
3	B4-3.0	1020		130				SP	@ 2.5' POORLY GRADED SAND (SP): black and medium brown speckled, medium and fine grained, moist, no odor or staining, minor iron oxide stains at ~3.0' (less than 1" thick), occasional gravel ~2" in diameter
4	B4-4.0	1020		251					
5									@ 5' POORLY GRADED SAND (SP): 80% fine grained sand, mica and shell fragments, no odor
6		1025		60.3	24"				
7									
8									@ 8': Mottled minor iron oxide staining at 8.0'
9	B4-9.0	1030							
10				110	32"	▼		SP	
11									
12									
13									
14				136	24"				
15									
16	B4-080703	1100							TOTAL DEPTH 16 FEET GROUNDWATER ENCOUNTERED AT 10 FEET
17									

Backfill:



NOTES: Screen from 12 to 16 feet for groundwater sample collection using disposable casing/tubing and peristaltic pump

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BORING LOG

Project Location	Project No.	Last Revised
Foot of Sampson Street San Diego, California	SDG-01-T002	6/21/2004

LOG OF BORING SILVER GATE TIDELANDS BORING LOGS.GPJ ENV AMERICA.GDT 6/22/04

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SAR193420

Project: SDG&E Silver Gate Tidelands Lease Parcel Boring: B-5 Pg. 1 of 1

Drilling Co: Gregg Drilling Drilling Method: Direct Push Logged by: R. Lesher

Date Started: 8/7/03 Sampling Method: Continuous Core Approved by: T. Mulder

Date Completed: 8/7/03 Hole Diameter: 2" Surface Elevation: NM

Depth in feet	Sample ID	Sample Time	Samples	PID	Recovery	Water Levels	GRAPHIC	USCS	DESCRIPTION
0									Surface: 4" asphalt
1									@ 0.33' POORLY GRADED SAND (SP): light yellowish brown, 80% fine grained sand, ~5% fines and 5% shell fragments. moist, no odors or stains
2	B5-2.0	1225		37.3	36"				@ 2': light reddish brown lens from 2' to 3'
3									
4	B5-4.0	1225							
5									
6				9.4	36"				
7									
8								SP	
9	B5-9.0	1230							@ 9': moisture horizon at ~9.0'
10				15.9	36"	▼			@ 10': saturated, no odors or stains
11									
12									
13									
14					36"				
15									
16	B5-080703	1245							TOTAL DEPTH 16 FEET GROUNDWATER ENCOUNTERED AT 10 FEET
17									

Backfill: Cold Patch Asphalt; Hydrated Bentonite (0.3 ft³)

NOTES: Screen from 12 to 16 feet for groundwater sample collection using disposable casing/tubing and peristaltic pump

ENV AMERICA
ENVIRONMENTAL ENGINEERING, CONSULTING & CONSTRUCTION

BORING LOG

Project Location	Project No.	Last Revised
Foot of Sampson Street, San Diego, California	SDG-01-T002	6/21/2004

LOG OF BORING SILVER GATE TIDELANDS BORING LOGS.GPJ ENV AMERICA.GDT 6/22/04

925

63732

SAR193421

Project: SDG&E Silver Gate Tidelands Lease Parcel Boring: B-6 Pg. 1 of 1

Drilling Co: Gregg Drilling Drilling Method: Direct Push Logged by: R. Lesher

Date Started: 8/7/03 Sampling Method: Continuous Core Approved by: T. Mulder

Date Completed: 8/7/03 Hole Diameter: 2" Surface Elevation: NM

Depth in feet	Sample ID	Sample Time	Samples	Recovery	Water Levels	GRAPHIC	USCS	DESCRIPTION
0								Surface: 4" asphalt
1								@ 0.33' POORLY GRADED SAND (SP): light reddish brown, 80% fine grained sand with shell fragments and some fines (<10%), no odors or stains
2	B6-2.0	1240		43"				
3	B6-3.0	1240						
4								
5								
6				36"				@ ~6': grading into light yellowish brown, abundant shell fragments and mica
7								
8	B6-8.0	1250					SP	
9								
10				36"	▼			
11								
12								
13								
14				24"				
15								
16	B6-080703	1300						TOTAL DEPTH 16 FEET GROUNDWATER ENCOUNTERED AT 10 FEET
17								

Backfill: Cold Patch Asphalt; Hydrated Bentonite (0.3 ft³)

NOTES: Screen from 12 to 16 feet for groundwater sample collection using disposable casing/tubing and peristaltic pump

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ENVIRONMENTAL ENGINEERING, CONSULTING & CONSTRUCTION

BORING LOG

Project Location	Project No.	Last Revised
Foot of Sampson Street San Diego, California	SDG-01-T002	6/21/2004

LOG OF BORING SILVER GATE TIDELANDS BORING LOGS.GPJ ENV AMERICA.GDT 6/22/04

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Project: SDG&E Silver Gate Tidelands Lease Parcel Boring: B-7 Pg. 1 of 1

Drilling Co: Gregg Drilling Drilling Method: Direct Push Logged by: R. Lesher

Date Started: 8/7/03 Sampling Method: Continuous Core Approved by: T. Mulder

Date Completed: 8/7/03 Hole Diameter: 2" Surface Elevation: NM

Depth in feet	Sample ID	Sample Time	Samples	PID	Recovery	Water Levels	GRAPHIC	USCS	DESCRIPTION	Backfill:
0									Surface: 4" asphalt	Cold Patch Asphalt
1									@ 0.33' POORLY GRADED SAND (SP): light yellowish brown, 80% fine grained sand, ~10% fines and shell fragments, moist, no odors or stains	
2	B7-2.0	1300		335	36"					
3										
4	B7-4.0	1300								
5										
6				56.6	36"					
7										
8	B7-8.0	1310						SP	@ 7.5': slight/minor black staining at 7.5' - included in 8.0' sample	
9						▼			@ 9': becomes saturated	Hydrated Bentonite (0.3 ft³)
10				103	48"					
11										
12										
13										
14					24"					
15										
16	B7-080703	1335							TOTAL DEPTH 16 FEET GROUNDWATER ENCOUNTERED AT 9 FEET	
17										

NOTES: Screen from 12 to 16 feet for groundwater sample collection using disposable casing/tubing and peristaltic pump

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ENVIRONMENTAL ENGINEERING, CONSULTING & CONSTRUCTION

BORING LOG

Project Location	Project No.	Last Revised
Foot of Sampson Street San Diego, California	SDG-01-T002	6/21/2004

LOG OF BORING SILVER GATE TIDELANDS BORING LOGS.GPJ ENV AMERICA.GDT 6/22/04

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SAR193423

Project: SDG&E Silver Gate Tidelands Lease Parcel Boring: B-8 Pg. 1 of 1

Drilling Co: Gregg Drilling Drilling Method: Direct Push Logged by: R. Lesher

Date Started: 8/7/03 Sampling Method: Continuous Core Approved by: T. Mulder

Date Completed: 8/7/03 Hole Diameter: 2" Surface Elevation: NM

Depth in feet	Sample ID	Sample Time	Samples	PID	Recovery	Water Levels	GRAPHIC	USCS	DESCRIPTION
0									Surface: 6" asphalt
1									@ 0.5' POORLY GRADED SAND (SP): light yellowish brown, 80% fine grained sand, 10% fines (silt and clay), 5% medium sand, 5% shell fragments, slightly moist, no odor or staining
2	B8-2.0	0855		0	36"				
3									
4	B8-4.0	0855		0					
5								SP	@ 5': grading into medium brown, shell fragments decrease to trace, no odors or stains
6		0900		0	36"				
7									
8									
9						▼			
10	B8-10.0	0905		3.8	36"				@ 10' POORLY GRADED SAND (SP): color changes to dark gray brown, abundant mica and shell fragments
11									
12									
13								SP	
14					43"				
15									
16	B8-080703	0930							
17									

TOTAL DEPTH 16 FEET
GROUNDWATER ENCOUNTERED AT 9 FEET

Backfill:
- Cold Patch Asphalt
- Hydrated Bentonite (0.3 ft³)

NOTES: Screen from 12 to 16 feet for groundwater sample collection using disposable casing/tubing and peristaltic pump

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ENVIRONMENTAL ENGINEERING, CONSULTING & CONSTRUCTION

BORING LOG

Project Location	Foot of Sampson Street San Diego, California	Project No.	Last Revised
		SDG-01-T002	6/21/2004

LOG OF BORING SILVER GATE TIDELANDS BORING LOGS.GPJ ENV AMERICA.GDT 6/22/04

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EXHIBIT C

SAR193425

File Number:

03-0284.0517

TECHNICAL REPORT FOR
RWQCB INVESTIGATION
ORDER NO. R9-2004-0026
Silver Gate Power Plant
San Diego, California
July 14, 2004

PREPARED FOR:

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ENV AMERICA

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TECHNICAL REPORT FOR RWQCB
INVESTIGATION ORDER NO. R9-2004-0026
SILVER GATE POWER PLANT
SAN DIEGO GAS AND ELECTRIC COMPANY
San Diego, California 92113

ACKNOWLEDGMENT AND SIGNATURE PAGE

This report was prepared by ENV America Incorporated (ENV America), on behalf of the San Diego Gas and Electric Company (SDG&E).

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DISCLAIMER

This Report was prepared for the sole use and benefit of the San Diego Gas and Electric Company (Client) and for the specific Site known as Silver Gate Power Plant Site, located at 1348 Sampson Street, San Diego, California 92113. Neither this Report, nor any of the information contained herein, shall be used or relied upon for any purpose by any person or entity other than the Client and for the Site.

ENV America makes no warranty as to the accuracy of statements made by others which are contained in this Report, nor are any other warranties or guarantees, express or implied, included or intended in this Report with respect to information supplied by outside sources or conclusions or recommendations substantially based on information supplied by outside sources. This Report has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services.

None of the work performed hereunder shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

1.0 INTRODUCTION

This Technical Report was prepared by ENV America for San Diego Gas and Electric Company (SDG&E) in response to San Diego Regional Water Quality Control Board (Board) Investigation Order No. R9-2004-0026 (the IO). This report summarizes historical operations associated with the former Silver Gate Power Plant (Plant), located at 1348 Sampson Street, San Diego, California (Site) (Figures 1 and 2).

1.1 Purpose of Work

San Diego Bay (Bay) sediments in the Southwest Marine and SDG&E leaseholds contain organic and metal contaminants that may have been deposited from multiple sources. The objective of this report is to document potential releases from former SDG&E activities in and around the power plant that may have contributed to sediment contamination. The scope of this report is focused on wastes that are consistent with those cited in the IO.

1.2 Scope of Services

This report summarizes SDG&E operations at the former Plant and surrounding area. The scope of work included researching historical data including internal SDG&E records, aerial photos (collections at County of San Diego Department of Planning and Land Use and San Diego Historical Society), property records, and recent investigation activities at SDG&E and neighboring properties. Public records at the Board, Port of San Diego (Port), and County of San Diego Department of Environmental Health (DEH) were reviewed and evaluated to determine if there was evidence of contaminant discharges that could have impacted Bay sediments.

1.3 Report Structure

This report addresses information required under the IO. Following this introduction are sections describing the Site conditions, SDG&E land leases, power plant history, chemical use and storage, waste handling, and discharges and monitoring. The report also includes sections that describe the potential for SDG&E and surrounding business operations to impact the Bay. Specific releases attributed to SDG&E in the IO are also discussed. The conclusions describe the distribution and likely sources of sediment contamination.

2.0 SITE DESCRIPTION

This section describes the physical attributes of the power plant and surrounding area, including surface and subsurface conditions, and historical lease boundaries.

2.1 Silver Gate Power Plant

The former Plant is approximately 750 feet from the Bay, on the northeast side of Southwest Marine (SWM) shipyard (Figure 1). The Plant consisted of three main areas, the power house (building containing the boilers, turbine generation equipment, and administrative area), the switchyard and substation (which distributed power from the plant, and today is an active substation), and the circulating water (CW) tunnels (tunnels extending from power house to Bay). The power house and switchyard are on land that SDG&E owns. The CW tunnels are on land that SDG&E leases. The Plant configuration is shown in Figure 2, and Figure 3 is a site vicinity map that shows the neighboring properties.

2.2 Geology and Hydrogeology

Belt Street is approximately coincident with the former shoreline of San Diego Bay. In the 1930s the land southwest of Belt Street was created by placement of fill dredged from the Bay. Consequently, the shallow geology northeast of Belt Street is different from the shallow geology southwest of Belt Street.

Northeast of Belt Street, there are three shallow stratigraphic units:

- Variable thickness of fill soil
- Five to 10 feet of alluvium/colluvium
- Pleistocene terrace deposits (also known as Bay Point Formation).

The alluvium and colluvium are generally described as tan to gray, dense silty sand. The Pleistocene terrace deposits are described as brown to gray brown, poorly cemented, dense to very dense silty sand.

The fill deposits south of Belt Street are reportedly material that was hydraulically dredged from the San Diego Bay. Field observations of Parcel 2 indicate that the

surface soil, and presumably the underlying fill, is a poorly graded silty fine sand with shell fragments.

The property and surrounding area are located within the Chollas Hydrologic Sub Area (HSA 8.22), which is designated as a non-beneficial groundwater use area by the Board.

The depth to groundwater in around the power house is approximately 15 feet below ground surface (bgs). The gradient is assumed to be westward, toward the Bay.

2.3 Surface Water Hydrology

Because the area around the Plant is primarily paved, rainfall generally results in run-off to municipal or Port storm drains, which discharge into the Bay. Some individual properties, such as NASSCO, SWM and SDG&E substations, currently have storm water capture capabilities; but historically storm water runoff was directed to the bay. According to the City of San Diego storm water conveyance system drawings, surface water run-off from the power plant and surrounding businesses is conveyed through a 30-inch pipe that runs along Sampson Street and discharges into the Bay. Exhibit A contains drawings prepared by the City and Port that show the storm water conveyances for the surrounding area.

A notice of intent (NOI) for the Plant was submitted on March 27, 1992, to the Board under the Statewide General Industrial Activities Storm Water Discharge Permit per NPDES No. CAS000001, Order 91-13-DWQ. In response to this NOI, the Board issued the Plant Waste Discharge ID (WDID) 9 37S05565. Under this permit, the Plant operated in accordance with a site specific Storm Water Pollution Control Plan (SWPCP). A facility drainage plan depicting the location of roof drains and drain inlets from this plan is included in Exhibit A. On October 2, 1995, SDG&E submitted a notice of termination (NOT) application to the Board as a result of the inactive status of the Plant. This NOT was approved by the Board on July 23, 1997.

SDG&E maintained facility spill prevention and control plans. These plans described equipment processes and associated containment incorporated into the plant design to prevent non-permitted releases from the facility. A Spill Prevention Control and Countermeasure (SPCC) plan dated in 1981 was located and reviewed. This SPCC plan described site grading, storage, and secondary containment incorporated into the Site design to control material releases if any were to occur from daily operations. This

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plan described the general direction of surface water drainage across the Site to be to the east towards Sampson Street and then south towards the Bay. Descriptions of secondary containment for all oil storage units were provided and consisted of:

- Transformers contained within concrete sumps;
- Eastward grading above the underground storage tanks (UST) away from the Bay;
- Six-inch high curb across the UST area that contained potential transformer spills or potential minor fuel oil tank overflows;
- A ten-inch high ramp across the driveway into the UST/transformer switchyard area that bounded the tank area between the ramp, the power plant building and a two foot high retaining wall;
- A sealed drain valve within the ramp capable of holding up to 25,000 gallons in the contained enclosure;
- Four-inch high curbs along the power house building to contain four small transformers that served generating Unit 2;
- A 12-inch high concrete wall and a 4-inch high doorway around the transformers that serve generating Unit 1;
- Drainage of turbines directed into a sump pump that discharged to wastewater Void 2 via level-actuated automatic pumps;
- High level alarms on wastewater Voids 1 and 2 to prevent overflow; and
- Manual release of water required for the secondary containment areas to ensure only clean water was released.

The SPCC plan stated that there were no reportable spills in the prior eight years, indicating that no spills occurred over the period 1973 to 1981.

The NPDES storm water permit for Southwest Marine (NPDES Permit No. CA0109151) as well as figures provided in the Sediment Characterization study (Exponent, 2003) indicated that Southwest Marine storm water was historically discharged to the Bay through eight outfalls located within the Southwest Marine leasehold. Since 1998, only one of the eight Southwest Marine outfalls has been in use.

The storm water conveyance system drawings obtained from the City of San Diego are dated 1994. Storm drain drawings prepared by the Port for the Jurisdictional Urban Runoff Management Plan in 2003 depict a 60-inch diameter pipe that discharges to the Bay from the Southwest Marine leasehold. This plan also depicts an abandoned 42-

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inch storm pipe that historically collected surface water from Sampson Street and the surrounding area and discharged to the Bay. This outfall was located within the Southwest Marine leasehold near Pier 3.

Chollas Creek also discharges to the Bay (Figure 1). The terminal area of the creek has deposits of contaminants that have been flushed from upstream domestic and industrial operations, which contain various organic compounds, including polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), and metals.

2.4 Land Leases

The Plant and associated switchyard and substations are located on property owned by SDG&E. The circulating water (CW) tunnels are located on land within the Burlington Northern Santa Fe (BNSF) Railroad (formerly the Atchison, Topeka and Santa Fe [AT&SF] Railroad) right of way and on State land managed by the Port, formerly managed by the City of San Diego from 1941 to 1960 at which time the Port was formed to manage all tidelands adjacent to the Bay. Historically, there have been several subleases of SDG&E leased land.

Figure 4 illustrates the various lease boundaries for the three parcels that SDG&E has leased from the Port. The leased land has been referred to as Parcels 1, 2 and 3.

In the next few years, SDG&E plans to disassemble and remove the Plant. SDG&E also plans to cancel the associated leases of adjacent properties. As part of canceling these leases, SDG&E will restore the leased properties to a condition mutually agreeable to SDG&E and the property owners. This restoration may involve abandonment of the CW tunnels and associated structures.

- Port tidelands

  Land leased from the Port, 2.14 acres. This landside area contains an approximately 525 foot length of tunnels beneath land occupied by Belt Street, Southwest Marine and ISP Alginates. This is publicly owned land that is managed by the Port. The visible surface features of the SDG&E CW tunnels are (a) manhole entryways within the yard of Southwest Marine, and (b) inlet and outlet structures located on the waterfront. The Port lease documents recognize this landside area as two parcels.

"Parcel 1" is a 0.15 acre parcel that is occupied by Belt Street. On this parcel, the tunnels are overlain by a heavily traveled road and multiple buried utilities that run beneath Belt Street, including natural gas, storm sewer, sanitary sewer, and electric service.

"Parcel 2" is a 1.99 acre parcel that is subleased to Southwest Marine and ISP Alginates. ISP Alginates uses their space for maintenance activities and parking. Southwest Marine uses their space for shipyard operations and parking.

Based on aerial photographs (see Section 3.1), SDG&E's Parcel 2 has been subleased to Southwest Marine and ISP Alginates and their predecessor companies since the mid-1960s.

3.0 SITE OPERATIONAL HISTORY

This section describes the Plant property and operational history.

3.1 History of Property and Vicinity

The following is a tabular summary of the history of operations on the Plant Site and the adjoining leased land of Port Parcel 2, with a focus on information relevant to environmental concerns. The best information of historical land uses was obtained from reviewing historical photographs, copies of which are included in Exhibit B. The history was developed by reviewing a number of records, including:

- Photograph collections at the San Diego Historical Society (SDHS);
- Aerial photograph collections at the County of San Diego Department of Planning and Land Use (DPLU) Cartography Department; and
- SDG&E internal files.

Historical Summary	
Plant Land Area	**Port Parcel 2**
March 1930: land area used for lumber storage March 1937: land area was vacant	March 1930: parcel was beach and submerged tidelands (SDHS Photo 89-17537-46) March 1937: parcel was vacant, undeveloped, recently-filled tidelands (SDHS Photo 79-741-226)
1941: construction of generating Unit 1 began January 1943: generating Unit 1 began operating	March 1941: south side of parcel had piles of construction debris (SDHS Photo 79-741-672) 1949 - 1952: parcel used for outdoor storage and parking, apparently SDG&E storage (DPLU Photo 1949AXN_1F_154, SDHS Photo 82-13673-721)
1952: generating Unit 4 construction completed	1952: parcel contained a pond, here named "Pond A," with above-grade berms (SDHS Photo 82-13673-718) 1953 – 1959: parcel was primarily vacant (DPLU Photo 1953AXN-3m-197, SDG&E photo from 5/59) June 1955: six SDG&E photographs illustrate location of an oil/water separator, here named "Structure C," and a minor overflow/spill to surface soil May 1959: one SDG&E photograph illustrates that Structure C was not extant, and another oil/water separator was present, here named "Structure D"

Historical Summary	
Plant Land Area	**Port Parcel 2**
	1966-1973: parcel contained a pond, here named "Pond B" (DPLU Photo 1966-GSVB01-1-112, DPLU Photo 1973-SDPD-26-5) 1966 – present: parcel used for parking, and used for industrial operations of SWM and ISP Alginates and their predecessor companies
1978: wastewater treatment plant brought online	1974: use of Pond B discontinued
mid-1980s: electric generating activities ceased mid-1980s – present: powerhouse and CW deck unused, substation continuing in use	

3.2 Power Plant Operational History

The power house contains six boilers which supplied steam to four steam turbine generating units, known as Units 1 through 4. The construction of the power plant began in the early 1940s, with Unit 1. Construction of Units 2, 3 and 4 proceeded sequentially until Unit 4 was finished in the early 1950s. The only major addition after 1952 was the addition of a waste water treatment plant, which was constructed on the CW Deck in 1978.

The plant operated almost continuously from 1943 to 1974. The power plant was used intermittently after 1974 to meet peak demands, but generally ran at reduced capacity. Units 1 and 2 were taken off-line in 1983. Units 3 and 4 were taken off-line in 1984. The boilers burned natural gas or fuel oil (dual fuel boilers).

After the mid-1980s, the power plant equipment was mothballed and maintained for a period. The mothball maintenance activities likely included dehumidified air storage of the turbines and boilers, degassing and dry storage of the generators, and rinsing and dry storage of the condensers. The mothball maintenance was discontinued a number of years ago.

In recent years, maintenance was performed to maintain necessary items such as the basement sump pumps, wastewater voids, wastewater void ventilation, plant lighting, elevator certifications and security. Various parties have occasionally salvaged parts and tools from the plant, but the majority of the power plant equipment is still onsite.

SDG&E plans to begin disassembly and removal of the boilers and turbine generating units in late 2004.

Fuel oil used to fire the boilers was stored in three 220,000-gallon underground storage tanks (USTs) that were located below the switchyard and substation. These tanks consisted of 12 inch thick concrete lined with a ½-inch thick steel plate. These tanks were "temporarily closed in place," and are not accessible until a future time when the substation equipment is removed. Construction of the USTs was likely concurrent with power plant construction, and there was no documentation found that described changes to the tank configuration.

San Diego Bay was used for non-contact, once-through cooling water in the power plant. The cooling water was transmitted via four tunnels (two intake tunnels and two discharge tunnels), each of which had cross-sectional dimensions of approximately 8 feet wide by 8 feet tall. The non-contact cooling water was passed through tube-type condensers to cool the steam. The tunnels apparently were constructed concurrent with construction of Unit 1 and remain in place today.

3.3 Chemicals Stored and Used Onsite

Table 1 shows a summary of the major chemicals that were used in Plant systems. The table indicates the time period of usage and the storage location. Nearly all chemicals were stored within the plant interior, with the exception of sodium hydroxide and sulfuric acid, which were stored in tanks on the CW deck; and chlorine, which was stored adjacent to the control house. Included in Exhibit C are copies of the chemical usage/purchase records provided by SDG&E to the Board per NPDES Permit No. CA0001376.

A lube oil system distributed oil to the turbines. Other chemicals were used in small quantities, such as cleaners and lubricating oils for ongoing plant repairs.

3.4 Wastes Generated and Stored or Discharged From the Site

The Plant generated several waste streams, including water from cooling and wash/cleaning processes, solids from plant repairs and modifications, air stack emissions, and equipment lubricants. This report focuses on the waste streams that may have resulted in discharges to the bay, which are primarily limited to waste water streams. The following sub-sections describe the sources of waste water, which are summarized on Table 2. Additionally, selected relevant process descriptions obtained

during this investigation are included in Exhibit C. We have also included a brief description of non-water liquid wastes that would have been generated at the plant.

Waste streams underwent various methods of treatment and discharge over the life of the plant. In September 1978 a waste water treatment plant was completed on the CW deck and subsequently certain aqueous waste streams underwent onsite treatment. Waste water characteristics and operational information was obtained from SDG&E internal documents, NPDES permits, and Army Corp of Engineers (ACE) permits. The primary waste streams that were contained in discharges included the following:

- Non-contact cooling seawater;
- Domestic wastewater, which was discharged to the sanitary sewer system;
- Air-preheater wash water;
- Boiler wash water;
- Chemical boiler tube cleaning water;
- Boiler and evaporator blowdown water;
- Bilge water collected from the basement floor trench system; and
- Service system cooling water; this waste was a small contributor as it was circulated in a contained closed loop system that was used to cool generation equipment such as bearings, jackets and compressors.

3.4.1 Non-Contact Cooling Water

The non-contact cooling water was used to cool and condense steam in the condensers. Sea water was circulated from the Bay through the tunnels at flow rates that typically ranged from 120 to 180 million gallons per day (MGD), with maximum flows of about 220 MGD during peak generation periods when all boilers were in use. Figure 5 shows the basic flow-path of the circulating water through the plant. The only chemical added to the circulating water was chlorine, which was used to reduce bio-fouling. The circulating water discharges to the Bay were regulated under various permits as described in Section 4.0.

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3.4.2 Air Pre-Heater and Boiler Fireside Wash Water

Air pre-heaters were typically washed once a year when fired by gas and twice a year when using fuel oil. Similarly, the outside (fireside) of the boiler tubes were washed to remove soot and accumulated combustion by-products (scale) from metal surfaces in order to maintain efficient heat transfer of the tubing. High pressure water was used to clean the surfaces. Boilers washing averaged two per year. Individual pre-heater washes generated about 90,000 gallons of water (SDG&E, date unknown). The annual waste stream from the boiler washings was approximately 140,000 gallons per year (SDG&E, 1972). The wash water was captured in the wastewater voids, where suspended solids were settled. The water was then pumped into the sanitary sewer and the solids were disposed of offsite (SDG&E, 1972). Upon completion of the waste water treatment plant, the wash water was treated onsite and then discharged to the Bay under NPDES Permit No. CA0001376.

3.4.3 Chemical Boiler Tube Cleaning Water

The inside of the water/steam tubing in each of the six boilers was cleaned at least every four years to remove scale. A chemical solution was used to clean the equipment, which was followed by various rinses, including alkaline solutions. The cleaning water was captured in the waste voids, where it was neutralized and then disposed of into the sanitary sewer. Boiler cleaning chemicals were discharged into a void and subsequently hauled to a disposal site approved by the Board. Neutralized chemicals were discharged to the City sewer (SDG&E, 1972). Upon completion of the waste water treatment plant in 1978 (on the circulating water deck), the cleaning water was treated onsite and then discharged to the Bay under NPDES Permit No. CA0001376. Water that was untreated, if any, was held in one of the wastewater voids on the CW deck until it was disposed of offsite.

3.4.4 Boiler Blowdown Water

Boiler blowdown refers to the release of relatively clean water from the steam system. Water was purged from a low point in the system to release settled and precipitated solids. Boiler blowdown was conducted on a daily basis and generated approximately 5.9 million gallons of water per year (SDG&E, 1972). It appears that prior to 1978 the boiler blowdown was routed directly to the CW discharge tunnels (SDG&E, 1972). After the water treatment plant was constructed, blowdown water went to the wastewater voids, where it was tested for iron and copper and then either treated and discharged or directly discharged to the Bay, if no treatment was needed. Boiler blowdown reportedly

averaged approximately 75,000 gallons per month (SDG&E, date unknown). Once operations ceased at the plant, boiler blowdown discharges also ceased.

3.4.5 Basement Bilge Water

Basement bilge water consisted of liquids that accumulated in trenches in the plant basement. The WWTP manual (SDG&E, 1978) lists the following waste sources: "turbine drains, boiler drains, condenser drain pump drains, cooling water supply drains, water box drains, service air compressor drains, fire pump drains, relief valve drains, condensate storage and overflow and condensate makeup pump drains." The basement bilge system was divided into two areas, the turbine side and the boiler side. Diagrams from 1965 show that bilge water from the turbine side was piped into the discharge cooling water tunnels, andthe bilge water from the boiler side was pumped, via an 8 inch diameter pipeline, to an "oil-water separating pond" located on Parcel 2, referred to as "Nobles Lake", which was used for evaporation and settling. However, it is noted that an ACE application (SDG&E, 1972) stated that only blowdown and cooling water were discharged to the CW tunnels, whereas other wastes were disposed of by evaporation, discharge to sewer or offsite disposal. Some water from the pond was discharged to the Bay. A more detailed description of the settling pond is contained in the *Site Assessment Report, Tideland Lease Area, Silver Gate Power Plant,* (ENV America, 2004).

In late 1974, SDG&E ceased using the pond due to changing environmental practices and regulations. From 1974 to 1977, all bilge wastewater was accumulated in three wastewater voids in the CW deck area of the power plant (total capacity of the voids was 270,000 gallons), from which it was either treated onsite or discharged in batches to the City sanitary sewer. In 1978, SDG&E completed construction of a wastewater treatment plant, after which bilge water was treated onsite prior to discharge into the Bay.

Today, discharge of the facility's minimal wastewater is conducted on a batch basis. All facility wastewater is collected in the equipment sumps and the plant bilge trench system. The wastewater is accumulated in Void No. 2, tested and discharged under permit to the City sanitary sewer system. The wastewater consists of mostly rainwater and possibly in-seepage of groundwater. Recent batch discharges include 105,500 gallons in 1998; 29,500 gallons in October 1999; and 49,500 in April 2001.

3.4.6 Service System Cooling Water

The service system cooling water was in a fully contained network of pipes and heat exchangers which should not have resulted in discharges. The water was treated with sodium dichromate as a corrosion inhibitor. Although no documentation was found describing draining and replacement of coolant, chemical usage logs described annual purchases of additional sodium chromate. One instance of a leak into the cooling water was documents in the compliance records.

3.4.7 Non-Water Liquid Wastes

Wastes that were generated separate from water streams included a lube oil system, which circulated oil from reservoirs through the generating turbines. The lube oil system included eight oil storage tanks, the largest of which was 3,000 gallons. The tanks drained to a 20,000-gallon sump. From at least 1980 onward the sump was equipped with level-actuated pumps that discharged to Void No. 2, where oil would be contained and appropriately disposed or treated (SDG&E, 1981).

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4.0 FACILITY DISCHARGE MONITORING RECORDS

This section summarizes waste discharge records for the waste water streams described in Section 3.

Discharges from the former Plant began when Unit 1 started generating in approximately 1943. Little information is available to document facility discharges prior to 1969. Starting in 1969, discharges were regulated by the Board, ACE, and the United State Environmental Protection Agency (USEPA). Discharge permit applications, compliance records, and facility-agency correspondence documents were reviewed for the period 1969 through 1995. In April 1995, the Plant NPDES permit was rescinded.

4.1 DISCHARGE PERMIT HISTORY

The first RWQCB Order, Resolution 69-R32, was issued by the Board in 1969. This resolution governed discharges during the period 1969 to 1974. In 1974, a NPDES permit (CA0001376) was adopted (Order 74-90) succeeding Resolution 69-R32, which was applicable until 1976. The plant's NPDES permit was subsequently renewed in 1976 (Order 76-9) and in 1985 (Order 85-07). A description of each of these permits is provided below, and Table 3 summarizes the permit conditions and discharge limitations.

4.2 RESOLUTION 69-R32

In July 1969, at the Board's request, SDG&E submitted a Report of Waste Discharge (ROWD) for the plant (Exhibit C). This ROWD described the plant's management of waste streams and cooling water discharge. It also specifically stated that all boiler chemical cleaning wastes were hauled offsite. Resolution 69-R32 was adopted by the Board in November 1969 (Board, 1969). This resolution regulated facility chemical usage to those chemicals already in use. These chemicals were identified to be sodium phosphate, sodium chromate, and ferrous sulfate. SDG&E was required to submit chemical usage data on a monthly basis pursuant to this resolution. Discharge practices pursuant to this resolution were described as follows:

- All industrial wastes, other than cooling water and boiler blowdown, were to be excluded from the discharge to the San Diego Bay;

- Chemical cleaning of the boilers was conducted every other year. All wastes from this process were hauled offsite;
- All domestic waste was discharged to the San Diego Metropolitan Sewage System; and
- The amounts of boiler cleaning waste generated and the point of disposal for each boiling event was to be documented.

In June 1971, a permit application under the Refuse Act per 33 U.S.C. 407 was submitted to the ACE. It indicated that facility discharges consisted of "relatively" pure water from boiler blowdown. The ACE permit application also stated that "Other wastes are excluded from this discharge and are disposed of by evaporation and/or city sewer (where approved). In some cases, disposal is made by hauling to an approved land disposal facility" (USEPA, 1972).

Additional waste stream treatment details were required by the ACE in response to SDG&E application under the Refuse Act to discharge non-contact cooling water into the Bay. In this response, dated June 1972, SDG&E indicated that boiler blowdown was conducted daily and generated approximately 5.9 million gallons per year of wastewater. Boiler wash (boiler tube fireside wash) was conducted on two boilers per year and generated a volume of 140,000 gallons per year. The SDG&E response stated that wash water from this process "...is drained into a holding cistern and the suspended solids allowed to settle. The liquid portion is neutralized to a pH of 6-7 and pumped to the City sanitary sewer. The remaining solids are hauled to a disposal site approved by the California Regional Water Quality Control Board" (SDG&E, 1972). A boiler cleaning (boiler chemical cleaning) was performed on two boilers per year. "The boiler cleaning chemicals are discharged into a holding tank and hauled to a disposal site approved by the California Regional Water Quality Control Board" (SDG&E, 1972).

Constituents monitored pursuant to the requirements of this resolution included flow rate, temperature, total suspended solids (TSS), total phosphorous, dissolved oxygen (DO), oil and grease, and pH. Discharge limits were based on a comparison between parameter concentrations in the cooling water intake versus the cooling water outlet. Quarterly reports were submitted to the Board. These reports presented monitoring results for each month in the quarter. The effluent limits for temperature, TSS, and oil and grease were established based on a comparison with the intake cooling water levels. As a result, the maximum temperature increase could not exceed 22 degrees Fahrenheit or an average temperature increase of 15 degrees Fahrenheit, no

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measurable increase in TSS was allowed and no more than 0.01 mg/L of oil and grease could be added to the Bay. Monitoring records are described in Section 4.7.

4.3 ORDER 74-90

Order 74-90 was adopted in December 1974 and covered the period December 1974 to June 1976. It described one facility discharge referred to as "discharge 001, cooling water." It stated that this discharge averaged 165.6 MGD and contained an average daily TSS concentration of 5.7 mg/L and a total iron daily average concentration of 0.20 mg/L. This order did not allow the discharge of oil, as defined by 40 CFR 110, at any time. It further stated that screenings, sludges, and other solid waste must be disposed of in such a manner as they do not enter any navigable waterway or tributary and that storm water runoff shall be routed so that it does not come in contact with raw materials, chemicals, and contaminants.

Constituents monitored pursuant to the requirements of this order consisted of flow rate, temperature, TSS, DO, oil and grease, total residual chlorine, settleable solids, and pH. Similar to Resolution 69-R32, no measurable increase in TSS was allowed and the maximum temperature increase could not exceed 22 degrees Fahrenheit or an average temperature increase of 15 degrees Fahrenheit. In addition, the order stated the Bay water must not be reduced to less than 4.5 mg/L of dissolved oxygen. Oil and grease, total residual chlorine, and settleable solids had set concentration and daily loading requirements.

Quarterly reports were submitted to the Board. These reports presented monitoring results for each month in the quarter, which are described in greater detail in Section 4.7.

4.4 ORDER 76-9

This order was adopted in May 1976 and covered the period May 1976 through June 1985. This permit marks the first period when metals analyses for copper and iron in wastewater were required. In addition, during this period of operation and monitoring, SDG&E was required to meet the new EPA steam electric generating categorical effluent limits for low volume wastes, boiler blowdown and metal cleaning wastes. To accomplish this, SDG&E constructed a wastewater treatment plant for wastewater processing. This plant was brought on-line in September 1978 and was used to treat the metal cleaning waste and low volume waste prior to discharge from the facility.

Waste streams under this permit were divided into combined waste discharge (discharge 001), metal cleaning waste (discharge 001B), boiler blowdown (discharge 001C), and low volume waste (discharge 001D). The combined waste discharge consisted of non-contact cooling water used to cool the condensers and pumps and other waste discharges that entered the Bay. Metal cleaning wastes were associated with boiler wash and air pre-heater wash water (if chemicals were used) and all chemical cleaning wastes from boiler cleanings. Low volume wastes consisted of bilge water, drainage of the service water system spent circulation water, and any equipment drip water that entered into the power house basement bilge trenches.

Monitoring of the metal cleaning waste stream, the boiler blowdown waste stream, and the low volume waste stream was suspended under this order via Technical Order 77-29 and subsequent amendments thereto, issued by the Board from July 1976 through April 1978. This was done to allow SDG&E time to reconfigure equipment and piping and to construct the new wastewater treatment plant. As a result, copper and iron monitoring did not begin until June 1978.

Monitoring under Order 76-9 included monitoring of the cooling water intake for TSS, oil and grease, and total copper. Discharge 001 was monitored for temperature, TSS, oil and grease, free available chlorine, pH, and total copper. However, monitoring limits were only set for temperature and free available chlorine. There was no limit set for total copper in this discharge. The compliance records suggest that TSS, oil and grease, and total copper were compared with an influent sample collected from the cooling water intake at the same time as the effluent sample to ensure the discharge was not adversely impacting the Bay. Discharge 001B and discharge 001C were monitored for TSS, total copper, total iron, and oil and grease. Concentration limits consisting of an allowable 30-day average and daily maximum concentration limit were established. Additionally, a 30-day average mass loading requirement and a daily maximum mass loading were established for each of these parameters. Discharge 001D was limited to TSS and oil and grease with concentration and mass loading limits.

Monitoring reports were submitted on a monthly basis to the Board. In addition, a year-end annual report was submitted which presented the average monthly concentration measured for each waste stream in tabular form and on trend plots. Compliance records are described in Section 4.7.

4.5 ORDER 85-07

This order was adopted in January 1985 and covered the period January 1985 through April 1995 when SDG&E rescinded their NPDES permit. Similar to Order 76-9, this order permitted the discharge of combined waste, metal cleaning waste, and low volume waste. Order 85-07 permitted the discharge of once-through cooling water, circulating pump lubrication water, and evaporator boiler blowdown water to the Bay without treatment. Pursuant to Order 85-07, the combined discharge consisted of once-through non-contact cooling water, and treated waste streams including cooling water pump lubrication wastes, low volume wastes and metals cleaning wastes.

Metal cleaning wastes included waste water from periodic boiler tube chemical cleanings, air pre-heater wash water and boiler fireside wash water. Treatment per permit requirements consisted of neutralization, chemical precipitation and flocculation. At times, boiler chemical cleaning waste was collected and shipped offsite to an approved disposal facility. This was a common practice in later years when little metal cleaning wastewater was generated due to intermittent operation of the plant.

Low volume wastes included condenser cleaning wash water, bilge water, evaporator blowdown, boiler blowdown and water collected from floor and sample drains throughout the facility. This waste stream, except for boiler blowdown and evaporator blowdown, was collected prior to discharge, isolated, sampled, treated if necessary and subsequently released from the facility.

Monitoring results were submitted monthly, semi-annually, and annually to the Board. Monthly reports included temperature data for both the influent and effluent. The combined discharge waste stream was monitored for temperature, TSS, oil and grease, pH, and total residual chlorine. Limits existed for the instant and daily maximum concentration and daily mass loading were required for total residual chlorine. The metal cleaning waste stream was monitored for TSS, oil and grease, total iron and total copper. Limits existed for instant maximum allowable concentrations, daily maximum allowable concentrations, monthly average allowable concentrations, instant maximum allowable loadings, daily maximum allowable loading, and monthly average allowable loading for each parameter. The low volume waste stream was monitored for oil and grease and TSS with concentration and mass loading limits.

In the semi-annual monitoring reports required pursuant to Order 85-07, SDG&E was required to monitor the combined discharge for toxicity, metals consisting of arsenic,

cadmium, chromium, copper, lead mercury, nickel, silver and zinc, cyanide, ammonia, phenols, pesticides, and organics. Limits were set for the instant maximum concentration and the instant maximum loading for each of these parameters. A six month median toxicity maximum limit was set for the low volume waste in the semi-annual monitoring reports. However, there was no additional monitoring required for the metal cleaning waste.

The semi-annual report for Order 85-07 required monitoring of the in-plant waste stream. The in-plant waste stream represented a pre-discharge wastewater sample of all in-plant waste streams combined including the metal cleaning waste and low volume wastes such as boiler and evaporator blowdown. Limits for the in-plant waste were established by the Board for metals consisting of arsenic, cadmium, chromium, copper, lead mercury, nickel, silver and zinc, cyanide, ammonia, phenols, pesticides, and organics. Monitoring limits for these parameters were set for instant maximum concentration, instant maximum loading, daily maximum loading, and 6-month median maximum loading.

The monitoring limits for the combined discharge and in-plant waste were set by the Board using the California State Water Resources Control Board (SWRCB) Ocean Plan Water Quality Standards. This method was used to set effluent limits for mass loading requirements due to the absence of standards for bays and estuaries. These limits were set based on full-scale operation of the plant (all units running). However, since SDG&E did not operate at full capacity during the majority of the period covered under this permit, the Board required SDG&E to compute actual loading limits based on the actual flow rate on the day of sampling. Thus, the limits outlined in Table 3 were not the actual limits for the plant, unless the discharge flow rates were at full permitted flows. Instead, SDG&E was required to meet much lower, more stringent limits than those shown in the table due to actual discharge flows. Compliance records are described in greater detail in Section 4.7.

4.6 WASTE STREAM SAMPLING METHODS

There was little documentation available describing actual waste stream sampling locations. Information with regard to sampling locations for NPDES monitoring under Order 85-07 was available and is presented below for each waste stream. It has been assumed that similar sampling locations were utilized in previous years as facility operations remained constant, other then the construction of the wastewater treatment plant in 1978. The combined discharge was sampled from the CW deck within a void

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space or as the waste exited the facility at the CW outlet tunnel located on the south side of the CW deck adjacent to the inlet tunnels.

Combined Discharge

The combined discharge sampling was conducted at the location where the two 8 foot diameter tunnels exited the facility en route to the Bay.

Metal Cleaning Waste

The metal cleaning waste stream was sampled from various locations following treatment in the wastewater treatment plant. Composite samples collected for TSS, copper, and iron were collected from the multi-stage filter outlet of the wastewater treatment plant. Samples collected for oil and grease analysis were collected from Void 2 on the CW deck.

Low Volume Waste

The low volume waste streams were sampled prior to discharge to the combined discharge. Low volume waste streams such as bilge water were always directed to a void for settling and separation. Samples for TSS were collected as a composite sample from the multi-stage filter outlet on the wastewater treatment plant. Oil and grease grab samples were collected directly from the void. If a batch of low volume waste was not sent through the multi-stage filter on the wastewater treatment plant, it would be isolated in the void, sampled and then released to the Bay. Boiler blowdown and evaporator blowdown were sampled prior to the combined discharge from sample points located within the plant.

In-Plant Waste

The in-plant waste was also sampled pursuant to semi-annual monitoring requirements set by the Board. This waste stream was sampled prior to discharge into the non-contact cooling water in the CW tunnels. Typically, the in-plant waste sample was collected from the voids prior to being combined with the non-contact cooling water. In the event an exceedance occurred in the combined discharge sample, the in-plant data could be used to determine if the source was from the plant wastewater.

4.7 MONITORING RECORDS

Pursuant to Resolution 69-R32 and NPDES CA0001376 (Order 74-90, Odder 76-9 and Order 85-07), monitoring data were submitted to the Board. The compliance records

were reviewed to identify and evaluate instances when permit limits were exceeded. Table 4 summarizes available monitoring records and lists permit exceedances.

The following sections discuss the monitoring results for each compliance period where specific exceedances of chemicals of concern (COCs) relative to the current IO occurred. The COCs included in the IO and presented herein are cadmium, chromium, mercury, nickel and PCTs. Total suspended solids are also included in this discussion since they may have contained COCs.

4.7.1 Resolution 69-R32

The compliance records located for review at the Board and in SDG&E internal files were limited to the year 1974, although it is noted that this resolution covered the period December 1969 to December 1974. Under this resolution, quarterly reports were submitted to the Board.

During the year 1974, the compliance records reviewed indicated that TSS compliance limits were exceeded. TSS compliance limits were set based on the difference between influent and effluent concentrations of the circulating water from the Bay. The criteria set by the Board did not allow any increase in TSS concentrations. The compliance limits for TSS were exceeded seven times during 1974. However, the magnitude of the exceedances is not known as SDG&E reported only that the TSS concentration between the intake and discharge water exceeded 0 milligrams per liter (mg/L). TSS exceedances were described in an SDG&E June 1974 internal memorandum to have resulted from sample variation between the influent and discharge water. This is understandable given the very large volume of Bay cooling water being sampled, and the difficulty of ensuring that influent samples were collected from the same water as the effluent samples. This memorandum indicated that new sampling methods were being researched to ensure sampling data were representative of actual conditions.

4.7.2 Order 74-9

Compliance records for this order were reviewed for the period December 1974 through June 1976. TSS limits which were the same under this Order as for Resolution 69-R32, were exceeded on seven occasions during this period. TSS concentration exceedances ranged between 0.1 mg/L to 1.6 mg/L. These seven occasions indicate that exceedances of the compliance limit occurred only 1.4% of the time during this period. Similar explanations for the TSS exceedances were given during this period as were provided during the 1969 to 1974 period; namely sampling methods and

laboratory analytical precision. Again, compliance reports submitted to the Board indicated that a different method of sampling was being researched to ensure representative data were obtained.

4.7.3 Order 76-9

Compliance records for this order were reviewed for the period June 1976 through January 1985. Limits for TSS in the low volume waste stream were exceeded in one sample in May 1981. This sample exceeded the 30-day average concentration of 30 mg/L (measured TSS concentration of 66.9 mg/L); the daily maximum concentration of 100 mg/L (measured TSS concentration of 126 mg/L); and the 30-day average mass emission limit of 23.8 lb/day (computed TSS 30-day average mass emission limit of 34.2 lbs/day). There was no explanation provided as to the cause of these exceedances in the documents available for review.

4.7.4 Order 85-07

Compliance records for this order were reviewed for the period January 1985 through plant shutdown in April 1995. There were no exceedances of the monthly compliance limits during this period. However, semi-annual compliance limits were exceeded over three time periods for chemicals identified in the IO.

The first exceedance occurred for chromium during the first half of 1985 in the in-plant waste stream. The chromium six month median in-plant mass emission limit of 0.0011 lbs/day was exceeded. The plant computed a concentration of 0.0794 lbs/day chromium in June 1985 during a small plant discharge from void 1. An explanation for this exceedance was not provided. The plant was operating in stand-by mode and made infrequent discharges during the first half of 1985. According to the semi-annual compliance report, it appears that a combined waste discharge was made on June 3, 1985 and not on June 25, 1985, when the small waste volume (approximately 0.017 MGD) was discharged from void 1.

During the first half of 1988, chromium exceeded the compliance limits on two sampling events. On April 6, 1988, the in-plant waste stream chromium six month median mass emission limit of 0.1477 lbs/day was exceeded (computed six month median mass emission limit of 0.2983 lbs/day based on an in-plant flow rate of 0.07 MGD). On June 15, 1988 the chromium combined discharge instant maximum concentration limit of 78 micrograms per liter (ug/L) was exceeded (measured chromium concentration of 240 ug/l); the combined discharge chromium mass emission limit of 3.798 lbs/day was

exceeded (computed chromium mass emission limit of 11.69 lbs/day based on a flow rate of 5.84 MGD); and the chromium six month median in-plant waste mass emission limit of 0.3798 lbs/day was exceeded (computed chromium six month median mass emission limit of 0.908 lbs/day based on a flow rate of 0.038 MGD. It is important to note that the chromium concentration in the cooling water inlet was approximately 170 ug/L.

Due to the initial chromium exceedance that occurred in April 1988, SDG&E conducted an investigation of their facility and re-sampled in June 1988 during their next facility discharge. It was determined at this time that the chromium present in the in-plant waste stream and subsequently in the combined waste discharge leaving the facility resulted from a leak in the plant's service water system. This waste stream was immediately isolated to prevent further discharge. Remaining wastewater onsite was hauled offsite for final disposal.

The final chromium exceedance occurred during the second half of 1989. The chromium combined discharge instant maximum concentration of 78 ug/L was exceeded (measured concentration of 1,022 ug/L) during this period. The in-plant waste stream was sampled at the same time as the combined discharge, and it contained essentially no total chromium (concentration less than 4 ug/L). In response to the elevated concentration of chromium in the combined discharge, SDG&E performed a facility inspection to ensure no leaks or spills had occurred. It was concluded that all piping and valves were in good condition. Facility data were further evaluated to identify the cause and/or source of chromium. The flow rate for the cooling water was approximately 19,300 gallons per minute (gpm) and the in-plant waste stream had a flow rate of approximately 128 gpm. Thus, the combined discharge flow rate was approximately 19,428 gpm at the time the exceedance occurred. Using these flow rates and assuming a concentration of 0 ug/L chromium in the Bay, it was estimated that the in-plant waste total chromium concentration would have needed to be approximately 155,200 ug/L to result in the measured concentration of 1,022 ug/L present in the combined discharge. Since the in-plant waste stream was sampled and did not contain chromium, it was assumed that the Bay water was the source.

5.0 POTENTIAL FACILITY RELEASES OF METAL AND ORGANIC COMPOUNDS

The IO identified several metals and polychlorinated terphenyls that were detected at elevated concentrations in sediments at the north end of Southwest Marine's leasehold. This section describes potential COC releases to the bay through Plant facility operations. It also addresses three specific SDG&E historical releases described in the IO that were associated with the plant and nearby facilities.

5.1 POTENTIAL RELEASES FROM FACILITY OPERATIONS

The Plant generated several waste streams as described in the previous sections. Historical documentation shows that operational practices typically prevented facility generated contaminants from entering the Bay. In 1978 the WWTP became operational, and served to further reduce potential releases to the Bay. Prior to 1978 the containment voids located on the CW deck were used to capture various waste streams and allow off-site disposal.

5.1.1 Bilge and Blowdown Water

Two waste streams may have discharged metals and organics to the Bay during the early operation of the plant (prior to 1974). Accumulation of liquids in the turbine side bilge trenches appears to have been discharged to the circulating tunnels that went directly to the bay (based on a 1965 plant diagram). Bilge water contained various liquids as described in Section 3.4.5. Bilge water from the boiler side was pumped to an oil/water separator and/or a settling pond in lease Parcel 2, where oily material and solids were separated before discharge to the Bay.

Potential releases in the bilge water may have included oil and grease from equipment lubrication, total suspended solids from water system drains, and possible service system water leaks or spills that contained chromium VI.

The second direct Bay discharge was from boiler and evaporator blowdown water, which may have contained solids and low level metals. After the WWTP was constructed, blow-down water was captured in voids, tested, and treated if necessary prior to Bay discharge (SDG&E, date unknown). Although permits allowed direct

discharge of blowdown water, waste streams were sometimes combined such that they required testing and potential treatment prior to discharge.

Water discharge sampling and analyses from 1974 onward showed occasional permit exceedances of total suspended solids, oil and grease, iron, copper and chromium (Table 4).

5.1.2 Chromium Usage

The IO listed several specific chemicals of concern for the Plant, one of which was chromium. Chromium VI was used at the plant in the form of sodium dichromate as a corrosion inhibitor in the service water cooling system. Annual NPDES reports from 1976 through 1994 listed the amount of sodium dichromate used annually at the plant, which ranged from 0 to a maximum of about 1200 pounds (Exhibit C). This was the only source of chromium found in plant documentation.

The service water was a closed loop system that did not have direct discharges to the Bay. Operational data indicate only extraordinary events such as leaks and spills could have released chromium to the environment. Leaks in the system may have impacted CW tunnel discharges (as described in chrome exceedance in 1988, Table 4). Leaks or spills may have also drained to the bilge system, which would have been pumped to Parcel 2 settling ponds prior to 1974. No documents describing spills or unauthorized releases of sodium chromate were found.

5.1.3 Storm Water Runoff

Site surface waster hydrology is described in Section 2.3. On the north (substation) side of the plant the site surface slopes eastward to Sampson Street, where storm water runoff is channeled to storm drains that discharge to the Bay. Water on the substation side of the plant is contained by berms that have been in place since at least 1981 (SDG&E, 1981). In addition to secondary containment structures inside the substation, the ground surface of the substation is covered with gravel, which filters potentially eroded sediments. The CW deck, which is on the south side of the plant, is about 10 feet lower than the surrounding surface grade. Water from the roof and CW deck drains into the open CW tunnels. Parking areas on the south side of the plant drain directly to Sampson Street.

No documentation was found that described spills or leaks outside the plant that would have impacted storm water runoff. Chemicals were reportedly kept inside the plant, or

had secondary containments, which would have prevented releases to water runoff. Potential releases due to storm water runoff do not appear to be a concern.

5.2 SDG&E RELEASES NOTED IN INVESTIGATION ORDER

The IO identified three specific releases that may have impacted the Bay sediment. Each of these releases was researched to determine potential impacts to the bay.

5.2.1 Transformer Oil Spill, 2295 East Harbor Drive and Sampson Street

This release was documented in the Board files in the Historical Occupancy Search Report prepared by Woodward Clyde (1995) on behalf of Southwest Marine in May, 1995. The release was discovered through a federal database search completed by VISTA on behalf of Woodward Clyde. The release was reported in the Emergency Response and Notification System (ERNS) federal database maintained by the USEPA. Similar documentation of the release was recovered by BBL during a federal database search in October 2000 on behalf of ENV America. Information available in this USEPA database, which can be viewed on the internet, indicates that in April 1988 approximately 40 gallons of transformer oil containing 1,400 ppm PCBs was spilled onto asphalt and a small area of soil as a result of a leaking transformer. The database indicates that the spill was cleaned up and the area was re-sampled. No records exist at this address under the name SDG&E at either the Board or the DEH. Further, all records for this address maintained by the DEH show ARCO as the property owner. SDG&E reported that they had no information on this event.

5.2.2 Underground Storage Tank Releases, 2141 Main Street

Underground storage tank (UST) files for two tanks, #801 and #802, were reviewed at the DEH and the Board offices. These files indicated that a release corresponding to moist, stained soil was first documented in 1986 from tank #802. It was also noted that the tank was emptied and taken out of service in 1982. Tank #802 was first installed in 1970, had a capacity of 500 gallons, and was used to store diesel or gasoline fuel between 1970 and 1982. Corrosion holes were observed in the tank's steel frame in 1986 following discovery of the stained soil. In-situ bioremediation was implemented as the site remedial action for groundwater. Groundwater modeling was completed to determine if the release had the potential to impact the Bay at concentrations that would exceed the Bay standard of 21 ug/L. The modeling results showed that the benzene in groundwater (maximum concentration of 3.1 mg/L) would not reach the Bay, which was 1,800 feet away. A no further action decision was issued for the Site in 1994 by SD DEH in conjunction/agreement with the Board.

5.2.3 Wastewater Ponds, SDG&E Leased Land (Parcel 2)

San Diego Board files document the disposal of waste via evaporation ponds in an Army Corp of Engineer discharge permit dated 1971. These "ponds" were reportedly used to settle solids and separate oil and grease from bilge water as described in Section 3.4.5.

The history of the structures is described in detail in a separate report by ENV America (2004), which summarizes site investigation activities conducted in 2003. Aerial photos showed a total of four structures on Parcel 2 over the course of about 20 years. These structures consisted of what are interpreted to have been two oil/water separators and two settling/evaporation ponds. Only one release was documented in available records. One of the oil/water separators became plugged in 1955, spilling waste to the land surface.

A few of the soil samples collected from borings drilled as part of the 2003 site investigation contained hydrocarbons, polychlorinated biphenyls, and metals in soil (analytical results are in Exhibit D). The investigation results indicated there was localized residual waste in former "Pond B". Boring B2 penetrated a stained horizon at approximately 2 feet below grade, beneath which was clean soil. Groundwater samples from the borings indicated there was no appreciable impact to the underlying groundwater. Neighboring shipyard operations may have also contributed wastes to the structures, as aerial photos indicate that Pond B was within a fenced area of Southwest Marine's shipyard from 1966 onward.

Use of the ponds was terminated by 1974 with the adoption of the first NPDES permit (Order No. 74-90) issued by the SD Board to the Plant. Upon completion of the WWTP in 1978, treatment of waste streams was confined to the CW deck.

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6.0 DISTRIBUTION AND SOURCES OF CHEMICALS IN SEDIMENT

Finding Number 10 of the IO inferred that elevated concentrations of cadmium, chromium, mercury, nickel and polychlorinated terphenyls (PCTs), documented by Exponent (2003) in sediments at the north end of SWM's leasehold, were due in whole or in part to discharges from SDG&E's operations. However, the inference is not supported by Exponent's (2003) data and the site history.

ENV America prepared new isoconcentration maps for the Exponent (2003) data, because the Exponent report presented isoconcentration contour maps of chemical results without including relevant data such as concentrations at individual sample stations, bathymetry or boundaries of prior dredging. Additionally, Exponent's isoconcentration contour maps did not account for the potential effects of the Silver Gate circulating water system upon local Bay circulation and sediment deposition in the vicinity of the circulating water intake and discharge. The following text describes our analysis of the distribution and sources of chemicals in sediment.

6.1 SOURCES OF CONTAMINANTS AND INFLUENCES ON CONTAMINANT DISTRIBUTION

The potential local sources of releases to the Bay include:

- Releases from the SWM shipyard, including:
  - Surface water runoff from the shipyard and piers;
  - Direct discharges to the Bay;
- Discharges from City and Port storm sewers;
- Potential release from the chemical plants located on the north side of SDG&E's leasehold; and
- SDG&E's discharges of circulating water.

The preceding sections of this report described SDG&E's known and potential releases to the Bay.

The shipyard had documented releases to the Bay. For instance, Woodward Clyde (1995) stated that the SWM shipyard property "dust suppression system for blasting house consisted of blowers directed at the bay with a water spray to cause dust to settle

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into the water" and "all waste generated on the dry dock including blast grit, paint, etc. were discharged into the bay."

Figure 6 illustrates the probable current flows that would have occurred during periods when the circulating water system was active at Silver Gate. The Silver Gate circulating water system had a maximum pumping capacity of 222 million gallons per day, or 154,000 gallons per minute (at peak operation). The circulating water intake and discharge streams at the shoreline were separated by sheet pile jetties. Several historical photos of the water front (e.g. Exhibit B, 1952 photograph, SDHS, 82-13673-718) illustrate that the discharge flowed into the Bay from the discharge outlet in a direction perpendicular to the shoreline. Such a flow directed into the Bay likely would have caused corresponding currents in the vicinity of Pier 3 as illustrated in Figure 6. We theorize that discharges of shipyard waste in the vicinity of the marine railways, which flanked Pier 1, would generally result in relatively rapid deposition of coarser particles near the release, and transport of suspended finer particles to eventual deposition sites at downstream locations. The sheet pile jetties were constructed of steel sheets that extended into the underlying sediment. The sheet pile jetties were solid barriers, which would have prevented migration of contaminants parallel to the shoreline across the jetties. In preparing the isoconcentration contour maps in Figures 7 to 13, the sheet pile jetties were treated as barriers that would have controlled the contaminant distribution.

The data for cadmium, chromium, mercury, nickel, PCTs and tributyltin were re-mapped and are presented in Figures 7 to 13. Tributyltin is also included here because tributyltin is a contaminant that is associated with shipyards and is generally not associated with fossil fuel power plants. Tributyltin is useful for comparison to other metals suspected to be from non-shipyard sources. Isoconcentration contours were drawn using the maximum value from the surface and the uppermost (0-2 foot) core samples.

Our records review indicates that the majority of chemical releases from the shipyard and other local industries to the Bay were prior to the introduction of stricter waste management practices in the 1970s and 1980s. In addition, the majority of releases may pre-date the latest maintenance dredging of berths on either side of SWM's Pier 1, which is estimated to have occurred within the last 20 years. SAIC (1992) includes drawings that indicate dredging was planned for the pier and sumps in the early 1990s. ENV America attempted to obtain dredge records, but was unable to obtain the records

in the short period allotted to prepare this report. The dredge records may provide information that would allow further understanding of the distribution of contaminants in sediment.

6.2 TRIBUTYLTIN

Tributyltin is an organotin compound used primarily as a biocide in antifouling paints and its presence in Bay sediment is most likely due to releases from shipyard and maritime operations. Figure 12 illustrates the distribution of tributyltin in sediments of SDG&E's leasehold and the northern portion of SWM's leasehold. In the Bay area covered by Figure 12, tributyltin was detected at the highest concentration at Exponent (2003) sampling station SW08, directly in front of the marine railways located between Piers 1 and 2. Figure 12 also illustrates that tributyltin was detected at relatively elevated concentrations throughout SDG&E's wharf lease and on ISP Alginate's leasehold. The presence of tributyltin, which is not related to power plant discharges, is a strong indicator that other detected contaminants on SDG&E's wharf leasehold come from the shipyard.

6.3 POLYCHLORINATED TERPHENYLS (PCTS)

PCTs are chlorinated aromatic hydrocarbons that were used in similar ways as PCBs. According to Kimbrough (1980), "in the U.S., PCTs were mainly used as plasticizers." According to Hale et al (1990), "suggested major uses of PCTs were as fire-retardants, as vapor suppressants to extend the kill-life of insecticides, as coatings to render fabric flame- and rot-proof and water-repellant, and in the manufacture of brake linings, abrasives for grinding wheels, lacquers, varnishes, and paints. In the electrical field, [PCT] Aroclors have been suggested for use in wire and cable coatings, as impregnants for braided cotton and asbestos insulation, and as dielectric sealants." And according to Jensen and Jorgensen (1983), an important use of PCTs was in waxes for investment casting. PCTs detected in sediment may have originated from a variety of industrial and domestic sources, including shipyards and municipal storm water runoff.

The available information does not strongly indicate that PCTs were discharged from SDG&E's operations. Figure 11 illustrates that the highest concentration of PCTs was detected in the surface and shallow sediment in the northern area of SWM's leasehold directly in front of the marine railways located between Piers 1 and 2 (sediment station SW08 core sample from 0 to 2 feet). Figure 11 also illustrates that PCTs were detected at elevated concentrations on SDG&E's wharf lease at sediment sampling stations SW01 and SW02. Exponent's (2003) Figure 4-19 illustrated that PCTs were detected at

relatively elevated concentrations at numerous locations along the length of the NASSCO and the SWM bulkhead. All of the detectable PCTs illustrated in Figure 11 were Aroclor 5460 (Aroclors 5432 and 5442 were not detected in any sample). Given the distribution pattern of PCTs, we conclude that the primary source of PCTs was the shipyard.

SDG&E's environmental staff reported to ENV America that SDG&E is not aware of using PCTs in SDG&E operations, nor has SDG&E detected PCTs on SDG&E facilities in the course of their routine in-house analytical work. SDG&E staff reportedly have no historical knowledge of purchasing or using PCTs at SDG&E facilities. SDG&E's Environmental Analysis Laboratory conducts PCB analyses to support SDG&E's environmental characterization and waste management operations. SDG&E's laboratory Team Leader stated that in his experience PCTs have not been detected in their routine PCB analyses (PCTs would be detected in routine PCB analyses if they were present).

6.4 METALS

The four metals, cadmium, chromium, nickel and mercury, had similar distribution patterns (Figures 7 to 10). The isoconcentration contours of the four metals do not conclusively indicate an SDG&E source for the four metals. The highest metal concentrations were detected at sediment sampling stations SW01, SW02, SW04 and SW08, which are directly in front of the marine railways (SW04 and SW08) and the CW discharge (SW01 SW02). The metal distribution patterns have strong similarities with the distribution patterns for tributyltin and PCTs, contaminants which appear to be present due only to shipyard operations.

Exponent (2003) presented a limited mineralogy study of copper and chromium speciation at four sediment stations, including stations SW02 and SW04. Exponent (2003) determined that at station SW04 the most frequently occurring form of mineral was slag, chromium occurred primarily as iron-chrome oxide and copper occurred primarily as chalcopyrite. Metal slag is a common blast grit, and it is likely that the slag at station SW04 is sand blasting waste. Exponent (2003) found that the analytical results from SW02 had analytical error rates that made the results for SW02 unreliable (the results indicated that chromium occurred primarily as an iron sulfate, and copper occurred primarily as native copper and chalcopyrite.).

We conclude that the four metals, cadmium, chromium, mercury and nickel, are present in sediments due to releases from the SWM leasehold, but the data are inconclusive in determining whether SDG&E's discharges contributed to the metals detected in sediment.

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7.0 SUMMARY AND RECOMENDATIONS

The Silver Gate power plant operated from 1943 to the mid-1980s. During this period the Plant used circulating (CW) tunnels to transmit non-contact, once-through cooling water (up to 222 MGD), which was discharged to the Bay at a location which was immediately adjacent to the SWM shipyard. The shipyard operations have occurred over a long period, beginning in the 1930s, long before construction of the Silver Gate power plant (1943-1952). The Shipyard operations have continued to date, almost 20 years since the shutdown of the Silver Gate power plant.

The Plant CW discharge has a documented record from 1969 through plant shutdown in the mid-1980s and onward until the final NPDES permit was terminated in 1995. The primary waste stream that was known to have been discharged to the Bay was boiler blowdown. There is limited information indicating that bilge trench water or service water may have been discharged to the Bay at times; however, most information indicates that bilge trench water and service water were treated and disposed of by means that did not involve discharge to the Bay. Two additional sites mentioned in the IO, 2295 East Harbor Drive and 2141 Main Street, were reviewed and determined to have had minimal potential for releases to the Bay.

Finding Number 10 of the IO inferred that measurements of elevated concentrations of cadmium, chromium, mercury, nickel and polychlorinated terphenyls (PCTs), documented by Exponent (2003) in sediments at the north end of SWM's leasehold, were due in whole or in part to discharges from SDG&E's operations. Section 6 of this report presented an analysis of the distribution and sources of chemicals in sediment of the SDG&E wharf leasehold and the north portion of SWM's wharf leasehold. Section 6 presented revised isoconcentration maps, with additional details not shown in the maps prepared by Exponent (2003). Those additional details include relevant data such as concentrations at individual sample stations, bathymetry and locations of SDG&E's sheet pile jetties. The revised contour maps were prepared to account for the potential effects of the Silver Gate circulating water system upon local Bay circulation and sediment deposition in the vicinity of the circulating water intake and discharge.

Tributyltin was evaluated here because tributyltin is a contaminant that is associated with shipyards and is generally not associated with fossil fuel power plants. Tributyltin is

an organotin compound used primarily as a biocide in antifouling paints and its presence in Bay sediment is most likely due to releases from shipyard and maritime operations. The distribution of tributyltin impacts (illustrated in Figure 12), extends across the SDG&E wharf lease. Based on the distribution of tributyltin, it is apparent that shipyard contaminants may occur throughout the SDG&E wharf lease.

We analyzed the distribution pattern of PCTs and PCT usage and concluded that the primary source of PCTs was not SDG&E, and there was little data supporting a conclusion that SDG&E's discharges contributed to PCTs detected in sediment.

The analysis in Section 6 also demonstrated the four metals of concern identified in the IO, cadmium, chromium, nickel and mercury, are present in sediments due to releases from the SWM leasehold, but the data are inconclusive in determining whether SDG&E's discharges contributed to the metals detected in sediment.

The Exponent (2003) sediment sampling stations in the SDG&E wharf leasehold and the north portion of SWM's wharf leasehold were spaced over 100 feet apart, and there were only three sediment sampling stations in SDG&E's leasehold. The data indicate that SDG&E discharges were not a cause of sediment contamination. Additional data are recommended to conclude with certainty that SDG&E discharges were not a cause of sediment contamination.

Recommendation. We recommend that additional sediment data be collected to establish whether SDG&E was a contributor to the shipyard sediment contamination detected in the SDG&E wharf leasehold and the north portion of SWM's wharf leasehold. The additional sediment data should be collected to (1) increase the sample density to determine accurate concentrations trends across the leaseholds, and (2) collect forensic chemistry and mineralogy data that may be used to determine the source of sediment contaminants. Additionally, dredging and historical sediment sampling data, such as that presented in SAIC (1992), should be compiled and evaluated to better understand contaminant distribution in sediments

8.0 REFERENCES

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Table 2
Processes and Associated Discharge Practices
Silver Gate Power Plant
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Process Name	Corresponding NPDES Permit Process Discharge Description [1]	Process Description	Waste Constituents	Quantity[1]	Discharge Practice	Reference
Non-Contact Cooling Water for Heat Exchange	Non-Contact Cooling Water (Discharge 001)	Once-through non-contact cooling water for condenser cooling and service cooling of bearings, oil, etc.	Chlorine (added to prevent fouling of heat exchangers)	• Average rate of 165 6 millions gallons per day (MGD) • Max rate of 223 MGD	• 1940s to Plant Shutdown: to CW tunnels to Bay	• RWQCB, 1969 • USEPA, 1972 • SDG&E, 1972 • SDG&E, 1978 • SDG&E, date unknown • SDG&E, 1980a • SDG&E,1980b • SDG&E,1988
Air Pre-heater Wash	Low Volume Waste (Discharge 001D) (Note, classified as Metal Cleaning Waste (Discharge 001B) if the addition of chemicals was required)	Water wash solution flush through air pipes to remove scale	Dissolved and suspended solids; metals	• Six washings per year (1 to 2 times per year per boiler) (Betz, 1978) • One wash per year per air heater when burn gas • Two washes per year per air heater when burn oil • 90,000 gallons per wash per air heater (Betz, 1978) • 90,000-120,000 gallons per wash per year per air heater (SDG&E, source unknown) • 179,500 gallons per month (SDG&E, March 1975) • 6,000 gallons per day (SDG&E, December 1975) • 158,000 gallons per day (SDG&E 1980a, 1980b, 1988 and RWQCB, 1985)	• 1940s to 1977: to CW voids then to sanitary sewer • 1978 to Plant Shutdown: to WWTP (clean effluent to Bay via CW tunnels)	• RWQCB, 1969 • SDG&E, 1972 • SDG&E, 1975 • SDG&E, 1978 • Betz, 1978 • SDG&E, date unknown • SDG&E, 1980a • SDG&E, 1985 • SDG&E, 1988 • RWQCB, 1985
Boiler Fireside Wash	Metal Cleaning Waste (Discharge 001B)	Washing/cleaning of external side of water tubes to remove soot and combustion by-products with high pressure water	Dissolved and suspended solids; metals	• Infrequent - typically occurred during unit shut-down • 1978 WWTP manual (Betz, 1978) indicated, " fireside washes not conducted currently." • 120,000 gallons per month (SDG&E, March 1975) • 140,000 gallons per year per boiler at 2 boiler washings per year (SDG&E, 1972) • 4,000 gallons per day (SDG&E, 1975)	• 1940s to 1977: to CW voids where water was neutralized and pumped into City Sewer. Solids were settled, removed and shipped to offsite facility • 1978 to Plant Shutdown: to WWTP, clean effluent to Bay • 1978: Boiler Fireside Washes not conducted (Betz, 1978) • All scale to offsite disposal facility	• RWQCB, 1969 • SDG&E, 1972 • SDG&E, 1975 • SDG&E, date unknown • SDG&E, 1978 • Betz, 1978 • SDG&E, 1980a • RWQCB, 1985 • SDG&E, 1988

Notes:
[1] The listed volume discrepancies may be attributed to:
- Varying documentation describing a range of operations that were conducted over the years
- Documented volume representing one versus all equipment pieces (i.e. one boiler versus six).
- Varying operating periods and equipment usage (all units on-line versus half versus none when the plant operated in stand-by mode in the later years).

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Table 2
Processes and Associated Discharge Practices
Silver Gate Power Plant
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Process Name	Corresponding NPDES Permit Process Discharge Description [1]	Process Description	Waste Constituents	Quantity[1]	Discharge Practice	Reference
Boiler Tubing Wash	Metal Cleaning Wastes (Discharge 001B)	Chemical solution wash of interior of water tubes	Solids/scale and metals	• Performed every two to four years (RWQCB, 1969) • At times, two boilers per year at 7,000 gallons per boiler per year (SDG&E, 1972) • 114,000 gallons per boiler cleaning (Betz, 1978) • 112,190 gallons per month for chemical cleaning (SDG&E, March 1975) • 4,000 gallons per day (SDG&E, December 1975)	• 1940s to 1978: Neutralization chemicals from wash to City sewer; Boiler cleaning chemicals collected and hauled to offsite facility approved by the RWQCB • 1978 to Plant Shutdown: to WWTP to Bay	• SDG&E, 1969a • RWQCB, 1969 • SDG&E, 1972 • SDG&E, 1975 • SDG&E, date unknown • SDG&E, 1978 • SDG&E, 1980a • RWQCB, 1985
Boiler Blowdown	Boiler Blowdown (Discharge 001C)	Potable water and steam rinse of boiler; also used evaporator makeup water. Blowdown of steam from boilers or evaporators when solids concentration became too high	Suspended solids Relatively uncontaminated stream	• Once every 24 hour period • 137,000 gallons per day (SDG&E, 1980b, SDG&E, 1988, and RWQCB, 1985) • 75,000 gallons per month (SDG&E, date unknown) • 170,000 gallons per month for all boilers (Betz, 1978) • 5.95 million gallons per year (SDG&E, 1972)	• 1940s to 1978: CW Tunnels to Bay • 1978 to Plant Shutdown: to CW voids to WWTP (if treatment needed) and to Bay	• RWQCB,1969 • USEPA, 1972 • SDG&E, 1972 • SDG&E, 1975 • SDG&E, 1978 • SDG&E, date unknown • BETZ, 1978 • SDG&E, 1980a • SDG&E, 1980b • SDG&E, 1988
Evaporator Blowdown	Low Volume Waste (Discharge 001D)	Supply makeup water to steam generation units. Blowdown of steam from boilers or evaporators when solids concentration became too high	Suspended solids	• 6,000 gallons per day (SDG&E, 1980, 1988 and RWQCB, 1985) • 46,000 gallons per day (SDG&E, December 1975) • 120,000 gallons per month (Betz, 1978) • 400,000 gallons per month (upper end when combined with bilge water) (SDG&E, date unknown) • 1.32 million gallons per month (SDG&E, March 1975)	• 1940s to 1978: CW Tunnels to Bay • 1978 to Plant Shutdown to CW voids to WWTP (if treatment needed) to Bay	• SDG&E, 1975 • SDG&E, date unknown • Betz, 1978 • SDG&E, 1980a • SDG&E, 1980b • SDG&E, 1988

Notes:
[1] The listed volume discrepancies may be attributed to:
- Varying documentation describing a range of operations that were conducted over the years.
- Documented volume representing one versus all equipment pieces (i.e. one boiler versus six).
- Varying operating periods and equipment usage (all units on-line versus half versus none when the plant operated in stand-by mode in the later years).

Table 2
Processes and Associated Discharge Practices
Silver Gate Power Plant
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Process Name	Corresponding NPDES Permit Process Discharge Description [1]	Process Description	Waste Constituents	Quantity[1]	Discharge Practice	Reference
Bilge Trenches	Low Volume Waste (Discharge 001D)	Basement bilge water from floor drainage system (includes water from turbine drains, boiler drains, condenser drain pump drains, cooling water supply drains, water box drains, service air compressor drains, relief valve drains, condensate storage overflow, and condensate makeup pump drains)	Oil, grease, suspended solids, and metals	• 11,000 gallons per day (SDG&E, 1980b and SDG&E, 1988) • 15,000 gallons per day from pump lubrication water (SDG&E, 1980a and SDG&E, 1988) • 49,000 gallons per day (SDG&E, December 1975) • 134,000 gallons per month from floor and sample drains (Betz, 1978) • 400,000 gallons per month when combined with evaporator blowdown	• 1940s to 1974, to oil-water settling pond; solids removed and disposed offsite; water periodically pumped to Bay • 1974 to 1978 to CW voids for settling, then to CW tunnels to Bay; solids removed from CW voids and disposed offsite • 1978 to Shutdown: to CW voids to WWTP to Bay	• SDG&E, 1972 • SDG&E, 1975 • SDG&E, date unknown • SDG&E, 1978 • Betz, 1978 • SDG&E, 1980a • SDG&E, 1980b • SDG&E, 1988
Service Water	No discharge	Closed-loop circulation of city water with the addition of sodium dichromate to prevent corrosion	Sodium Bichromate/ Sodium Dichromate	• Chemical purchases ranged between 0 lbs to 1,200 lbs	• Closed Loop system that recycled water throughout units – no discharge	• RWQCB, 1969 • RWQCB, 1974 • RWQCB, 1976 • RWQCB, 1985

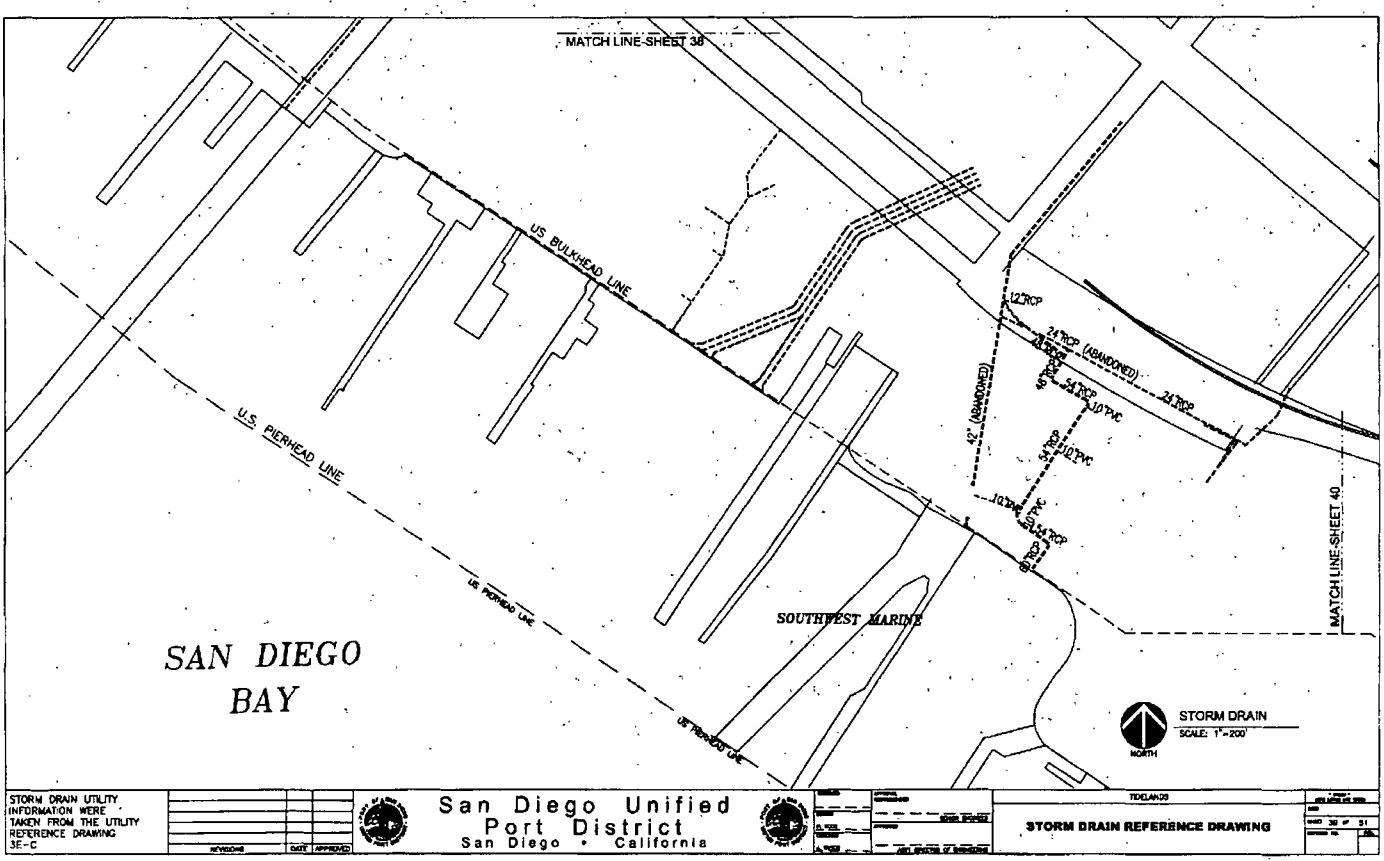
Notes:
[1] The listed volume discrepancies may be attributed to:
- Varying documentation describing a range of operations that were conducted over the years.
- Documented volume representing one versus all equipment pieces (i.e. one boiler versus six).
- Varying operating periods and equipment usage (all units on-line versus half versus none when the plant operated in stand-by mode in the later years).

Table 1
Chemical Usage Reported in NPDES Reports
Silver Gate Power Plant

Chemical	Plant System	Storage Location
Pre-1976		
Sodium Phosphate	Evaporator	Interior
Sodium Chromate	Service water	Interior
Ferrous Phosphate	Boiler	Interior
Chlorine	Condenser	Exterior
Post-1976		
Antifoam (Calgon C-1)	Evaporator	Interior
Antiscalant (Calgon CL-14)	Evaporator	Interior
Disodium Phosphate	Boiler	Interior
Hydrazine (Calgon K-35)	Boiler	Interior
Iron Sulfate	Condenser	Interior
Betz Octafilm (filmingamine)	Boiler	Interior
Sodium Dichromate	Service water	Interior
Sodium Hydroxide	Boiler, evaporator and WWTP	Exterior
Chlorine	Condenser	Exterior
Calgon NL-90 (50% cyclohexylamine)	Boiler	Interior
Tri-Sodium Phosphate	Evaporator	Interior
Sodium Sulfite (Calgon K-91 and Calgon L5-32)	Boiler	Interior
Sodium Bichromate	Service water	Interior
Filming Amine	Feed water system	Interior
Cyclohexylamine (Calgon NL-90)	Feed water system	Interior
Octafilm	Condensate system	Interior
Penetrant (Calgon CL-361)	Condenser	Interior
ML 90	Condensate system	Interior
K 91	Boiler	Interior
Xylene	Laboratory (fuel oil testing)	Interior

Notes:
1. Source: RWQCB File 13.0089.01 for Resolution 69-R32, Order 74-90, Order 76-9, and Order 85-07
2. WWTP = wastewater treatment

P:\SDG&E\Silvergate\sediments\IO report, 7-04\Tables\Table 1 - Chemical usage


MATCH LINE-SHEET 38
US BULKHEAD LINE
U.S. PIERHEAD LINE
US PIERHEAD LINE
SAN DIEGO BAY
SOUTHWEST MARINE
12"RCP
24"RCP (ABANDONED)
24"RCP
42" (ABANDONED)
54"RCP
10"PVC
54"RCP
10"PVC
10"PVC
54"RCP
MATCH LINE-SHEET 40
STORM DRAIN
SCALE: 1"=200'
NORTH
STORM DRAIN UTILITY INFORMATION WERE TAKEN FROM THE UTILITY REFERENCE DRAWING SE-C
San Diego Unified Port District
San Diego • California
TIDELANDS
STORM DRAIN REFERENCE DRAWING

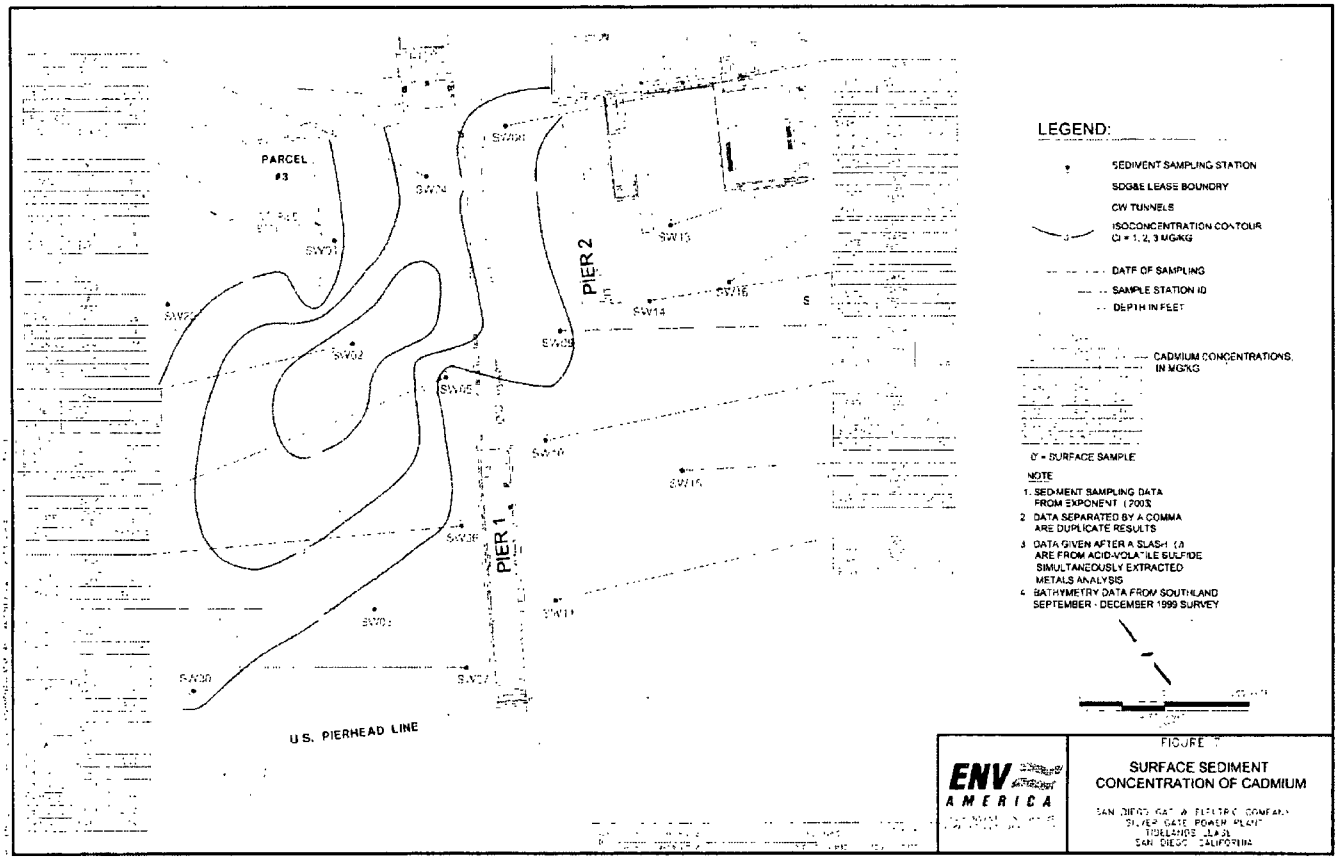
SAR193319

SAR193320

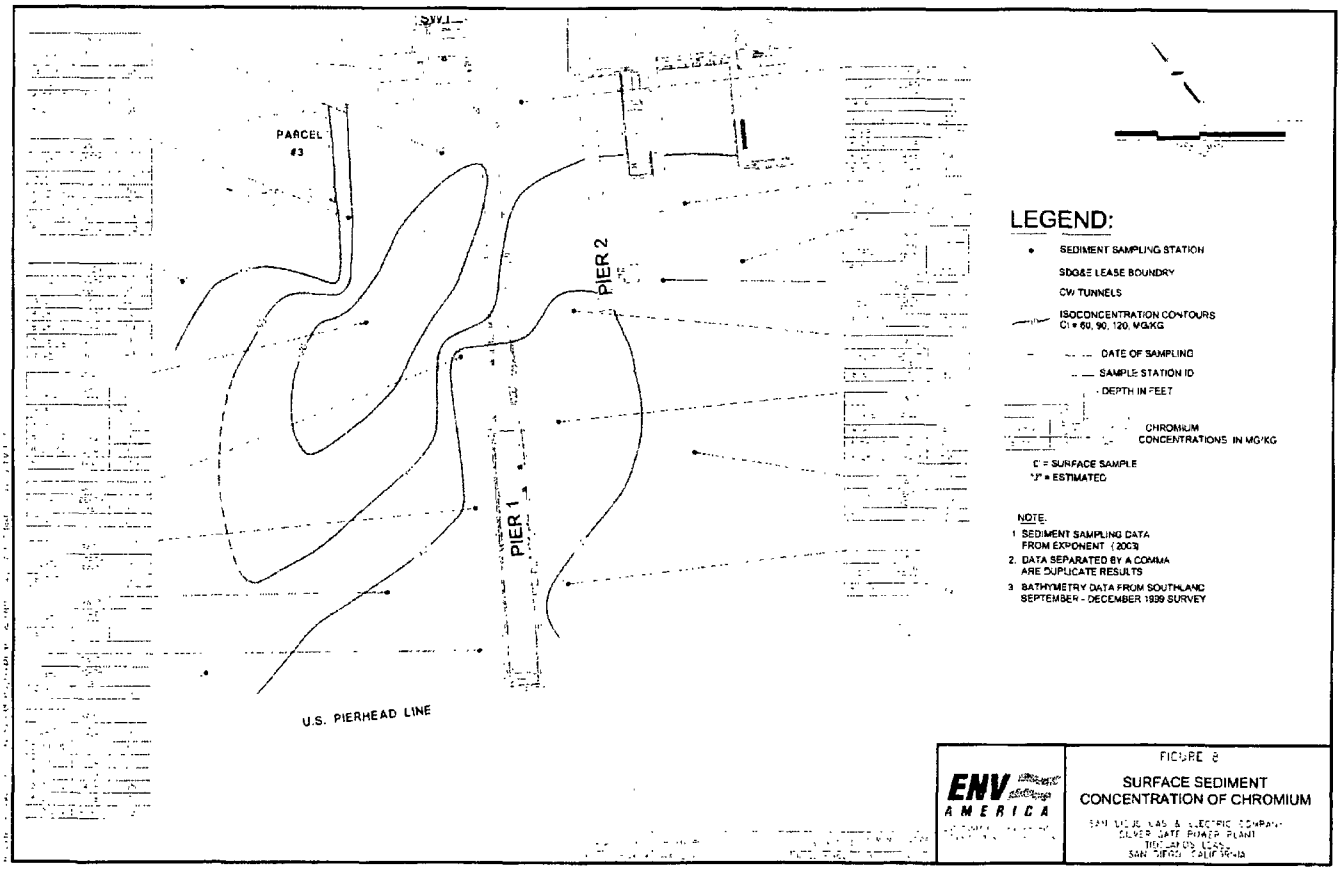
36"
36"
Unknown
30"
30"
63"
48"

SAR19332

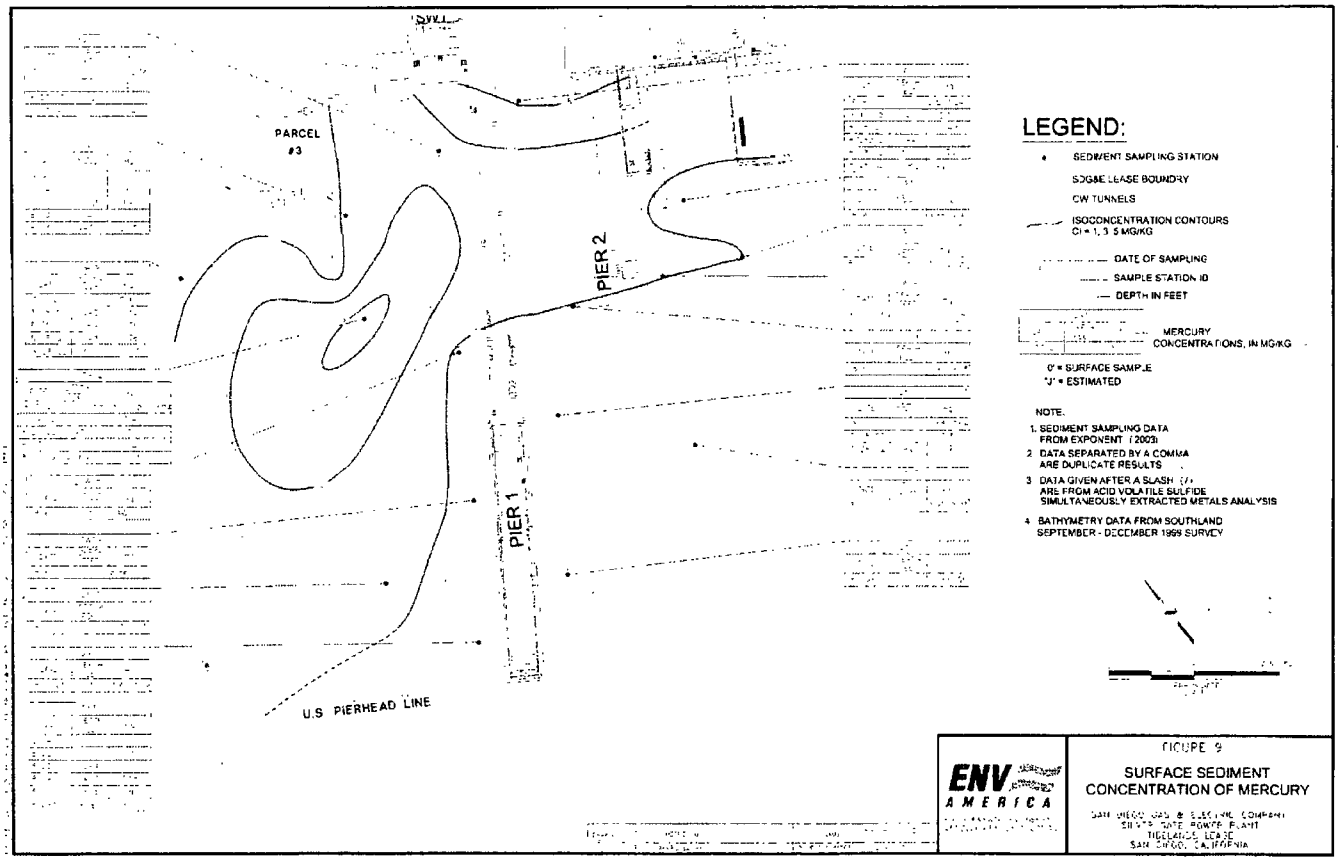
FIGURE 6
CONCEPTUAL MODEL OF
CURRENT FLOW DURING
CW OPERATION
SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA
ENV AMERICA
NOTE:
LEGEND

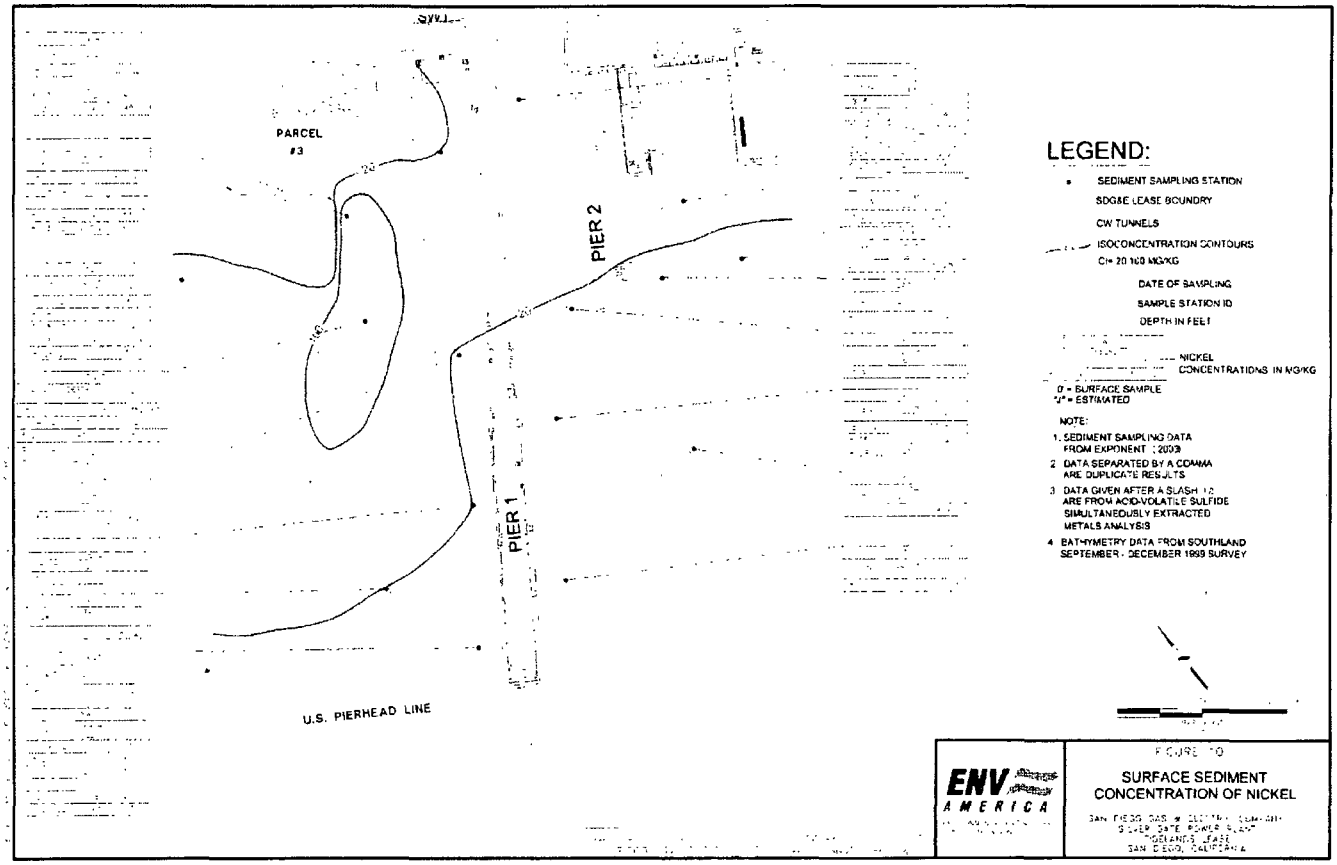

PARCEL #3
PIER 2
PIER 1
U.S. PIERHEAD LINE
SW01
SW02
SW03
SW04
SW05
SW06
SW07
SW08
SW09
SW10
SW11
SW12
SW13
SW14
SW15
SW16
SW17
SW18
SW19
SW20
LEGEND:
SEDIMENT SAMPLING STATION
SDG&E LEASE BOUNDRY
CW TUNNELS
ISOCONCENTRATION CONTOUR CI = 1, 2, 3 MG/KG
DATE OF SAMPLING
SAMPLE STATION ID
DEPTH IN FEET
CADMIUM CONCENTRATIONS, IN MG/KG
0' = SURFACE SAMPLE
NOTE
1. SEDIMENT SAMPLING DATA FROM EXPONENT (2003)
2. DATA SEPARATED BY A COMMA ARE DUPLICATE RESULTS
3. DATA GIVEN AFTER A SLASH (/) ARE FROM ACID-VOLATILE SULFIDE SIMULTANEOUSLY EXTRACTED METALS ANALYSIS
4. BATHYMETRY DATA FROM SOUTHLAND SEPTEMBER - DECEMBER 1999 SURVEY
ENV AMERICA
FIGURE 7
SURFACE SEDIMENT CONCENTRATION OF CADMIUM
SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA

AR 3

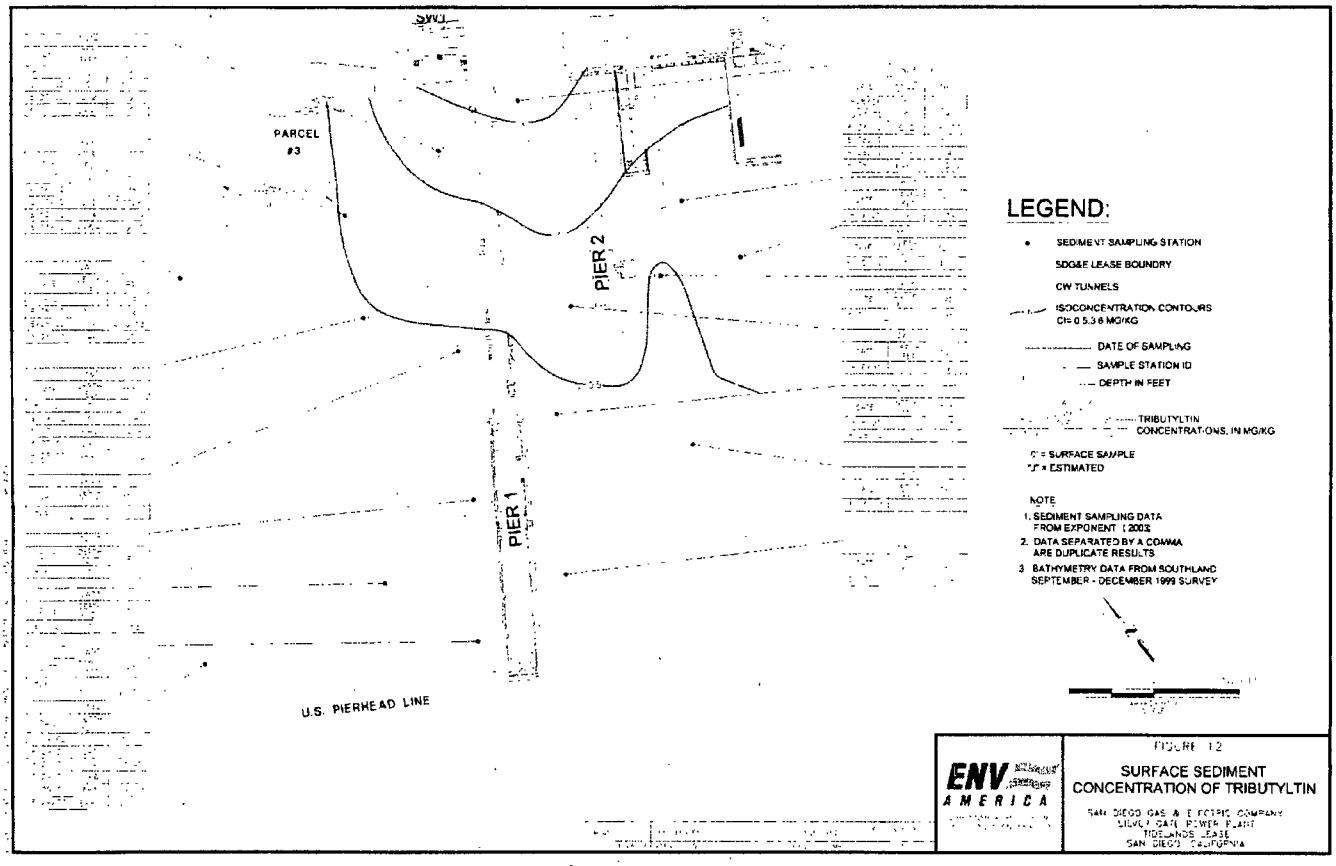

PARCEL #3
PIER 2
PIER 1
U.S. PIERHEAD LINE
LEGEND:
SEDIMENT SAMPLING STATION
SDG&E LEASE BOUNDRY
CW TUNNELS
ISOCONCENTRATION CONTOURS
CI = 60, 90, 120, MG/KG
DATE OF SAMPLING
SAMPLE STATION ID
DEPTH IN FEET
CHROMIUM CONCENTRATIONS IN MG/KG
"0" = SURFACE SAMPLE
"J" = ESTIMATED
NOTE:
1. SEDIMENT SAMPLING DATA FROM EXPONENT (2003)
2. DATA SEPARATED BY A COMMA ARE DUPLICATE RESULTS
3. BATHYMETRY DATA FROM SOUTHLAND SEPTEMBER - DECEMBER 1999 SURVEY
ENV AMERICA
FIGURE 2
SURFACE SEDIMENT CONCENTRATION OF CHROMIUM

SAR193324

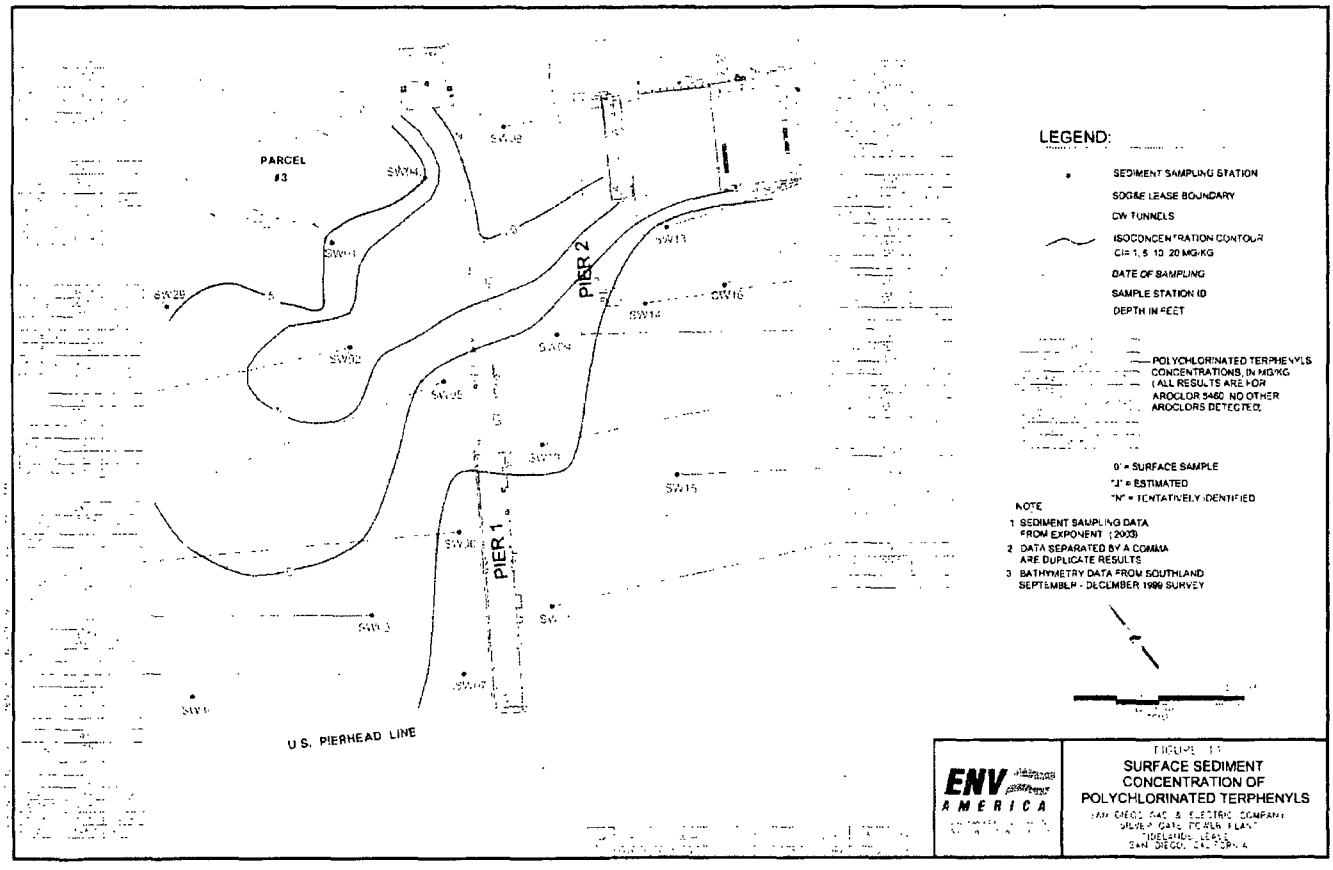

PARCEL #3
PIER 2
PIER 1
U.S PIERHEAD LINE
LEGEND:
SEDIMENT SAMPLING STATION
SDG&E LEASE BOUNDRY
CW TUNNELS
ISOCONCENTRATION CONTOURS CI = 1, 3, 5 MG/KG
DATE OF SAMPLING
SAMPLE STATION ID
DEPTH IN FEET
MERCURY CONCENTRATIONS, IN MG/KG
'0' = SURFACE SAMPLE
'J' = ESTIMATED
NOTE:
1. SEDIMENT SAMPLING DATA FROM EXPONENT (2003)
2. DATA SEPARATED BY A COMMA ARE DUPLICATE RESULTS
3. DATA GIVEN AFTER A SLASH (/) ARE FROM ACID VOLATILE SULFIDE SIMULTANEOUSLY EXTRACTED METALS ANALYSIS
4. BATHYMETRY DATA FROM SOUTHLAND SEPTEMBER - DECEMBER 1999 SURVEY
ENV AMERICA
FIGURE 9
SURFACE SEDIMENT CONCENTRATION OF MERCURY
SAN DIEGO GAS & ELECTRIC COMPANY
SILVER GATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA


PARCEL
#3
PIER 2
PIER 1
U.S. PIERHEAD LINE
LEGEND:
SEDIMENT SAMPLING STATION
SDG&E LEASE BOUNDRY
CW TUNNELS
ISOCONCENTRATION CONTOURS
CI= 20 100 MG/KG
DATE OF SAMPLING
SAMPLE STATION ID
DEPTH IN FEET
NICKEL
CONCENTRATIONS IN MG/KG
0' = SURFACE SAMPLE
"J" = ESTIMATED
NOTE:
1. SEDIMENT SAMPLING DATA FROM EXPONENT ; 2003
2 DATA SEPARATED BY A COMMA ARE DUPLICATE RESULTS
3 DATA GIVEN AFTER A SLASH '/' ARE FROM ACID-VOLATILE SULFIDE SIMULTANEOUSLY EXTRACTED METALS ANALYSIS
4 BATHYMETRY DATA FROM SOUTHLAND SEPTEMBER - DECEMBER 1999 SURVEY
ENV AMERICA
FIGURE 10
SURFACE SEDIMENT CONCENTRATION OF NICKEL
SAN DIEGO GAS & ELECTRIC (SDG&E)
SILVER GATE POWER PLANT
SDG&E LEASE
SAN DIEGO, CALIFORNIA

SAR193326


PARCEL #3
PIER 2
PIER 1
U.S. PIERHEAD LINE
LEGEND:
SEDIMENT SAMPLING STATION
SDG&E LEASE BOUNDRY
CW TUNNELS
ISOCONCENTRATION CONTOURS CI= 0.5,3.6 MG/KG
DATE OF SAMPLING
SAMPLE STATION ID
DEPTH IN FEET
TRIBUTYLTIN CONCENTRATIONS, IN MG/KG
"S" = SURFACE SAMPLE
"J" = ESTIMATED
NOTE
1. SEDIMENT SAMPLING DATA FROM EXPONENT (2003)
2. DATA SEPARATED BY A COMMA ARE DUPLICATE RESULTS
3 BATHYMETRY DATA FROM SOUTHLAND SEPTEMBER - DECEMBER 1999 SURVEY
ENV AMERICA
FIGURE 12
SURFACE SEDIMENT CONCENTRATION OF TRIBUTYLTIN
SAN DIEGO GAS & ELECTRIC COMPANY
SILVERGATE POWER PLANT
TIDELANDS LEASE
SAN DIEGO, CALIFORNIA

AR


PARCEL #3
PIER 2
PIER 1
U.S. PIERHEAD LINE
LEGEND:
SEDIMENT SAMPLING STATION
SDG&E LEASE BOUNDARY
CW TUNNELS
ISOCONCENTRATION CONTOUR CI= 1, 5, 10, 20 MG/KG
DATE OF SAMPLING
SAMPLE STATION ID
DEPTH IN FEET
POLYCHLORINATED TERPHENYLS CONCENTRATIONS, IN MG/KG (ALL RESULTS ARE FOR AROCLOR 5460, NO OTHER AROCLORS DETECTED)
0' = SURFACE SAMPLE
"J" = ESTIMATED
"N" = TENTATIVELY IDENTIFIED
NOTE
1 SEDIMENT SAMPLING DATA FROM EXPONENT (2003)
2 DATA SEPARATED BY A COMMA ARE DUPLICATE RESULTS
3 BATHYMETRY DATA FROM SOUTHLAND SEPTEMBER - DECEMBER 1999 SURVEY
ENV AMERICA
SURFACE SEDIMENT CONCENTRATION OF POLYCHLORINATED TERPHENYLS

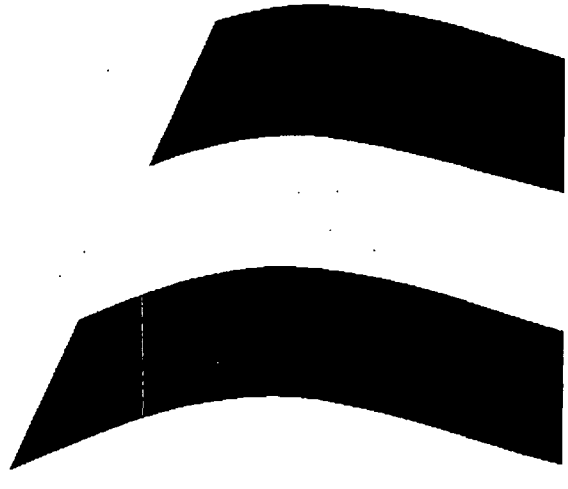
SAR193328

ENV AMERICA

ENVIRONMENTAL

ENGINEERING, CONSULTING

& CONSTRUCTION



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63732 PAGE
SAR193329

May 24, 2011
Project No. 106942001

Mr. Bill Hays
San Diego Unified Port District
3165 Pacific Highway
San Diego, California 92101

Subject: Subsurface Investigation
San Diego Gas & Electric Tidelands Area
Belt Street and San Diego Bay
San Diego, California

Dear Mr. Hays:

Ninyo & Moore is submitting this revised report to reflect amendments to the analytical laboratory results made by Calscience on May 18, 2011 upon a more detailed review and data validation process. During this process, the PCB Aroclor 1254 was identified in six soil samples and four cooling water tunnel sediment samples. A copy of the revised analytical reports is included Appendix D, and the revised results are indicated in blue on the associated tables.

We appreciate the opportunity to be of service to you on this project.

Sincerely,
NINYO & MOORE

Scott Lutz
Senior Staff Environmental Scientist

Stephan A. Beck, P.G. 4375
Manager, Environmental Sciences Division

SEL/SB/gg

Distribution: (1) Addressee

PORT098007

Ninyo & Moore
Geotechnical and Environmental Sciences Consultants

SUBSURFACE INVESTIGATION
SAN DIEGO GAS & ELECTRIC
TIDELANDS AREA
BELT STREET AND SAN DIEGO BAY
SAN DIEGO, CALIFORNIA

PREPARED FOR:
San Diego Unified Port District
3165 Pacific Highway
San Diego, California 92101

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
5710 Ruffin Road
San Diego, California 92123

February 28, 2011
Revised May 24, 2011
Project No. 106942001

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Mr. Bill Hays
San Diego Unified Port District
3165 Pacific Highway
San Diego, California 92101

Subject: Subsurface Investigation
San Diego Gas & Electric Tidelands Area
Belt Street and San Diego Bay
San Diego, California

Dear Mr. Hays:

Ninyo & Moore is pleased to submit this Subsurface Investigation Report for the San Diego Gas & Electric (SDG&E) Tidelands Area located at Belt Street and San Diego Bay, San Diego, California (site). The work was conducted in general accordance with the Contract No. 50092, Request for Services No. 57, and amendments.

We appreciate the opportunity to be of service to you on this project.

Sincerely,
NINYO & MOORE

Scott Lutz
Senior Staff Environmental Scientist

Stephan A. Beck, P.G. 4375
Manager, Environmental Sciences Division

SEL/SB/gg

Distribution: (1) Addressee

PORT098009

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Appendix B – Geophysical Survey Report
Appendix C – CPT/UVOST Logs
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1. INTRODUCTION

San Diego Unified Port District (SDUPD) retained Ninyo & Moore to conduct a subsurface investigation of the San Diego Gas and Electric (SDG&E) Tidelands Area located at Belt Street and San Diego Bay, San Diego, California (site) (Figure 1). The work was conducted in general accordance with the SDUPD Contract No. 50092, Request for Services No. 57 (and amendments), the work plan dated November 15, 2010, and the County of San Diego, Department of Environmental Health (DEH), Site Assessment and Mitigation Manual.

2. BACKGROUND

The site is located between Belt Street and the San Diego Bay, at the foot of Sampson Street, southwest of the former Silver Gate Power Plant in the City and County of San Diego, California (Figure 2). SDG&E is the current lease holder from SDUPD. The current tenant at the site is BAE Systems.

3. SCOPE OF SERVICES

Ninyo & Moore's scope of services generally included the following tasks:

- Provided project management and coordination.
- Obtain revised San Diego County, DEH, boring permits reflecting Ninyo & Moore as the subcontractor and Gregg Drilling as the driller.
- Prepared a site-specific health and safety plan.
- Marked the proposed boring locations and notified Underground Service Alert (USA) and DEH a minimum of 48 hours prior to starting the subsurface investigation.
- Conducted a geophysical survey of the boring locations and potential subsurface anomalies, which may have related to historical structures, settling ponds, or sea water cooling tunnels.
- Advanced 38 Cone Penetration Testing (CPT)/Ultra Violet Optical Screening Tool (UVOST) locations to depths of approximately 40 to 48 feet below ground surface (bgs).
- Reviewed the CPT/UVOST data and identified 28 locations and specific depths at each location to collect soil samples.

- Advanced 28 locations using a direct push drill rig and collected soil samples at depths associated with selected UVOST data and in areas where staining or hydrocarbon odors were noted. Temporary wells were set at 15 locations with total depths ranging from 15 to 32 feet bgs to collect groundwater samples.
- Conducted sediment sampling from the interior base of the sea water cooling tunnels located beneath the site.
- Collected soil, sediment, and groundwater samples and submitted them to a state-certified analytical laboratory for chemical analysis.
- Compiled and performed a quality control review of the analytical results.
- Prepared this report summarizing the subsurface investigation.

4. PREVIOUS SITE ASSESSMENT

The site has historically been used by SDG&E for the storage of plant waste from the Silver Gate Power Plant. ENV America Incorporated (ENV America) performed a site investigation on August 7, 2003, on behalf of SDG&E (ENV America, 2004). The ENV America investigation focused on potential impacts from two former wastewater ponds located on the site. That investigation identified the presence of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), most of which appeared to be chlorinated solvents, polycyclic aromatic hydrocarbons (PAHs), trace metals, and polychlorinated biphenyls (PCBs) in subsurface soil and groundwater. The approximate locations of the ENV America samples are provided on Figure 2.

After ENV America completed the site investigation fieldwork, additional historical information was discovered and included photographs that indicated that there were two additional wastewater structures at the site. The additional structures were identified as oil/water separators (ENV America, 2004a).

Given the areal extent of the site and the associated historical site usage, the sampling conducted by ENV America was limited and did not characterize the site or delineate the contamination identified during their investigation.

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5. SITE SPECIFIC HEALTH AND SAFETY PLAN

Ninyo & Moore prepared a site-specific health and safety plan (SHSP) that identified the potential chemical and physical hazards that may be encountered during the field activities. In addition, the plan provided guidelines for use of personal protective equipment based on site-specific conditions, location and directions to the nearest hospital, and contingency plans. Ninyo & Moore's field activities were performed in accordance with the SHSP, and field personnel signed copies of the employee acknowledgement prior to start of work. In addition, each morning a tail-gate safety meeting was held with all parties involved in conducting the scope of services outlined above.

6. FIELD ACTIVITIES

The following sections describe the field activities associated with the subsurface investigation conducted by Ninyo & Moore in December 2010.

6.1. Permits and Notifications

Ninyo & Moore revised the previously-approved boring permits for the advancement of 40 CPT/UVOST borings and 30 soil borings including installation of a temporary monitoring well at each location. The original application was submitted to the DEH and approved on August 30, 2010. A revised boring permit was approved, which included identification of the selected sub-consultant and the drilling contractor. USA and the DEH were notified a minimum of 48 hours prior to the start of advancement of the CPT/UVOST and soil borings. The tenant and the client were notified a minimum of 24 hours prior to drilling activities at the site. A copy of the approved DEH Soil Boring Permit is included in Appendix A.

6.2. Boring Locations

CPT/UVOST boring locations were selected based upon historical information provided by the client, a review of historical aerial photographs, and a site reconnaissance. Soil borings

and temporary groundwater well locations were selected based on the UVOST results. Each of the boring locations is depicted on Figure 3.

6.3. Geophysical Survey

On December 11, 2010, Southwest Geophysics, Inc. (Southwest) assessed the proposed boring locations at the site to mark potential buried utilities and locate other subsurface anomalies. A combination of electromagnetic induction, magnetometry, and ground penetrating radar was utilized. In addition, a grid survey was conducted in the general locations of the former ponds and the sea water cooling tunnels to help delineate these features. A copy of the geophysical survey report is included in Appendix B.

6.4. Cone Penetration Testing – Ultra Violet Optical Screening Tool

CPT/UVOST fieldwork was conducted between December 12 and December 15, 2010. CPT/UVOST borings were advanced using a 30-ton truck-mounted CPT rig operated by Gregg Drilling (Gregg), a bonded, C-57 licensed drilling contractor. Borings were advanced to a maximum total depth of 48 feet bgs. Refusal was encountered with the CPT/UVOST in borings CPT-23 and CPT-24 at 4.9 and 1.5 feet bgs, respectively and CPT-17 was terminated at approximately 16 feet bgs because it was located above the discharge cooling water tunnel. In addition, CPT data could not be collected at location CPT-34 through CPT-38 due to a malfunction in the cone. UVOST data was simultaneously collected while advancing the CPT borings including locations where CPT data was not available. Drilling and sampling activities were conducted under the supervision of a California Professional Geologist. Upon completion, each boring was backfilled with bentonite grout, and capped with either asphalt or concrete to match the pre-existing surface. Copies of the CPT and UVOST data are provided in Appendix C.

6.5. Soil Sampling

Based on the CPT/UVOST data, 28 soil borings were advanced between December 18 and December 21, 2010. Soil samples were collected using a 2-inch diameter continuous core

barrel lined with acetate sleeves: SB-39, SB-40, and SB-41, located inside a structure, were advanced using a hand auger. However, refusal was met in locations SB-39 and SB-41 at depths of one and 3 feet bgs, respectively. Table 1 indicates the sample depths at each of the boring locations.

Sample intervals were selected at each boring locations using the UVOST data and visual observation of the material in the field. The acetate sleeve was sliced in half to view the desired sample depth; three 5-gram samples were collected from the sample interval using a Terra Core Sampler® and were transferred to pre-preserved vials with stir bars for VOC analysis as described in United State Environmental Protection Agency (EPA) Prep Method 5035A. The selected interval was then placed into a stainless steal mixing bowl and composited. Once composited, the sample was placed in a new 8-ounce glass jar, securely closed, labeled with pertinent information and placed in a cooler with ice. Samples were transferred under chain-of-custody procedures to Calscience Environmental Laboratories (Calscience), of Garden Grove, California, a state-certified laboratory, for analytical testing. Upon completion, each soil boring was backfilled with bentonite grout, and capped with either asphalt or concrete to match the pre-existing surface. Excess sample material was placed in appropriately-labeled, DOT compliant 55-gallon drums and temporarily stored at the site, pending disposal.

6.6. Groundwater Sampling

Once the borings were advanced to their total depth, temporary groundwater wells were installed in 15 of the soil borings. Total depth of the temporary wells varied based on field conditions. Table 1 indicates the depth and screen intervals of each temporary well. Wells were constructed using 3/4-inch diameter flush-threaded schedule 40 polyvinyl chloride (PVC) with 5 feet of 0.010 slotted PVC screen at the base of each well. After installation, each temporary well was allowed to equilibrate for a minimum of 30 minutes prior to measuring the water level in each well to the nearest 0.1 foot using an electronic water level meter. Depth to groundwater ranged from 8.4 feet to 10.1 feet bgs as measured in the temporary wells (Table 1). Groundwater samples were then collected from each of the

temporary wells using a stainless steel bailer, which was decontaminated between each use. Groundwater samples were placed directly into laboratory supplied sampling containers, labeled with pertinent information and placed in a cooler with ice. Samples were transferred under chain-of-custody procedures to Calscience for analytical testing.

6.7. Cooling Water Tunnel Sediment Sampling

On December 29, 2010, samples were collected at each of the access points to the cooling water tunnels located beneath the site. Two samples were collected from the intake tunnel and two samples were collected from the discharge tunnel using a bottom dredge sampler. The dredge sampler was slowly lowered to the base of the tunnel; once impacting the bottom, the spring-loaded mechanism closed and was then raised to the surface. The material collected at each location was placed in a cleaned stainless steel mixing bowl. Larger material including rocks and trash was removed from the sampler prior to placing the sediment into the laboratory supplied containers. Three 5-gram samples were collected from the sample using a Terra Core Sampler® and transferred to pre-preserved vials with stir bars for VOC analysis as described in EPA Preparation Method 5035A. However, a VOC sample was not collected from the northern intake cooling water tunnel sample location because the material was saturated, and therefore, not suitable for this preparation method. The remainder of the sample was placed in a new 8-ounce glass jar, securely closed, labeled with pertinent information and placed in a cooler with ice. Samples were transferred under chain-of-custody procedures to Calscience for analytical testing.

6.8. Decontamination Procedures

Non-dedicated monitoring and sampling equipment was decontaminated after each use. Decontamination procedures included a non-phosphate detergent and potable water wash, followed by potable and distilled water rinses. Decontamination fluids were placed in appropriately-labeled, DOT compliant 55-gallon drums and temporarily stored at the site, pending disposal.

7. ANALYTICAL TESTING

Soil, groundwater, and cooling water tunnel sediment samples were analyzed for TPH extended range organics (TPH-ero) for carbon ranges C_6-C_{44} by EPA Method 8015M with silica gel cleanup, VOCs by EPA Method 8260B (prep by EPA Method 5035A for soil and sediment samples), polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270C, polychlorinated biphenyls (PCBs) and polychlorinated terphenyls (PCTs) by EPA Method 8082 and 8082M, respectively, and Title 22 Metals by EPA Methods 6010B/7471A.

7.1.1. Field Quality Assurance and Quality Control Trip Blank

Trip blanks are carbon-free deionized water samples provided by the laboratory to accompany the samples during all stages of shipment, storage, and analysis. Trip blanks are used to evaluate the potential for the artificial introduction or cross-contamination of analytes into the investigative samples during the transportation and sample handling processes. One set of trip blanks accompanied each sample delivery group from the field to the laboratory and was analyzed for VOCs by EPA Method 8260B.

A trip blank accompanied each sample delivery group associated with the subsurface investigation. VOC compounds were not detected in the trip blanks.

7.1.2. Field Quality Assurance and Quality Control Equipment Blank

Quality control equipment blanks (QCEBs) are samples collected by pouring carbon-free deionized water over and/or through sample collection devices following the aforementioned decontamination procedures. QCEBs are used to evaluate the effectiveness of the decontamination procedures and determine if sample cross-contamination has occurred. One QCEB was collected at the end of each sampling day. The QCEBs were analyzed for TPH-ero by EPA Method 8015M (with silica gel cleanup), VOCs by EPA Method 8260B, PAHs by EPA Method 8270C, PCBs/PCTs by EPA Methods 8082 and 8082M respectively, and Title 22 Metals by EPA Methods 6010B/7471A.

An equipment blank accompanied each sample delivery group associated with the subsurface investigation. The QCEB sample collected December 18, 2010 had a concentration of zinc above the reporting limit and the QCEB sample collected December 19, 2010 had a concentration of naphthalene above the laboratory reporting limit. These detections do not exceed the detected concentrations of either zinc or naphthalene in samples collected on December 18 and December 19, 2010, respectively. Therefore, the data are acceptable for their intended purpose.

8. SUMMARY OF FINDINGS

This section summarizes the analytical results of the December 2010 subsurface investigation. Figure 3 indicates the sampling locations, Table 2 summarizes the analytes detected in soil, Table 3 summarizes the analytes detected in groundwater, and Table 4 summarizes the analytes detected in cooling water tunnel sediment.

8.1. Soil Sample Analytical Results

Based on visual observation, the soil generally consisted of silty sand to sandy silt and consisted primarily of hydraulically placed fill. Photoionization detector screening of the soil cuttings did not indicate the presence of VOCs, and neither staining nor unusual odors were noted from any of the borings. A copy of the laboratory analytical results is included in Appendix D. The following provides a summary of the soil sample analytical results:

- TPH was detected in 36 soil samples at or above the method detection limits. Table 5 provides a summary of all TPH soil sample analytical results.
- VOCs were detected in 16 soil samples at or above the method detection limit. Table 6 provides a summary of all VOC soil sample analytical results.
- PAHs were detected in 18 soil samples at or above the method detection limit. Table 7 provides a summary of all PAH soil sample analytical results.
- PCBs were detected above the method detection limit as Aroclor 1254 in six soil samples and as Aroclor 1260 in eight soil samples. PCTs, as Aroclor 5460, were detected in

eight soil samples at or above the method detection limit. Table 8 provides a summary of all the PCB/PCT soil sample analytical results.

- Metals were detected above the reporting limit in numerous samples. Metals analytical results in soil samples are summarized in Table 9.

8.2. Groundwater Sample Analytical Results

Neither odor nor visible free-product was observed in the groundwater samples at the time of collection. Groundwater sampling locations are depicted on Figure 3. A copy of the laboratory analytical results is included in Appendix D. The following provides a summary of the groundwater analytical results:

- TPH was detected in eight groundwater samples at or above the method detection limits. Table 10 provides a summary of all TPH groundwater sample analytical results.
- VOCs were detected in nine groundwater samples at or above the method detection limit. Table 11 provides a summary of all VOC groundwater sample analytical results.
- Fluoranthene was detected above the method detection limit in the groundwater sampled collected from SB10. Other PAHs were not detected in groundwater at or above the method detection limit. Table 12 provides a summary of all PAH groundwater sample analytical results.
- PCBs/PCTs were not detected at or above the method detection limit in the groundwater samples analyzed. Table 13 provides a summary of all PCB/PCT groundwater sample analytical results.
- Metals were detected above the reporting limit in numerous samples. Metals analytical results in groundwater samples are summarized in Table 14.

8.3. Cooling Water Tunnel Sediment Sample Analytical Results

Based on visual observation of the sediment extracted from the two cooling water tunnels, the sediment generally consisted of silty sands to sandy silts. Sediment samples from the discharge and intake tunnels had a slight hydrocarbon odor, and the samples were generally gray to black in color. A copy of the laboratory analytical results is included in Appendix D. The following provides a summary of the sediment sample analytical results.

- TPH was detected in four of the five cooling water tunnel sediment samples at or above the method detection limits. Table 15 provides a summary of all TPH cooling water tunnel sediment sample analytical results.

- Benzene was detected above the method detection limit in the cooling water tunnel sediment sample DT01. Other VOCs were not detected at or above the method detection limit in cooling water tunnel sediment samples. Table 16 provides a summary of all VOC cooling water tunnel sediment sample analytical results.

- PAHs were detected in four of the five cooling water tunnel sediment samples at or above the method detection limit. Table 17 provides a summary of all PAH cooling water tunnel sediment sample analytical results.

- PCBs, as Aroclors 1254 and 1260, and PCTs, as Aroclor 5460, were detected above the method detection limit in four of the five cooling water tunnel sediment samples. Table 18 provides a summary of all PCB/PCT cooling water tunnel sediment sample analytical results.

- Metals were detected above the reporting limit in numerous samples. Metals analytical results in cooling water tunnel sediment samples are summarized in Table 19.

9. LABORATORY DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

A quality assurance/quality control (QA/QC) review was performed on the analytical data from the subsurface investigation to assess the quality and usability of the laboratory data. The QA/QC review evaluated the holding times, trip and equipment blank samples, laboratory internal quality control, surrogate recovery, and data qualifiers.

Based upon the results of the laboratory QA/QC review, it is the opinion of Ninyo & Moore that these analytical data are acceptable for use as intended.

10. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines, and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may ex-

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activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

The environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The data contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

11. REFERENCES

ENV America Incorporated, 2004, Site Assessment Report – Landside Tidelands Lease Area – Silver Gate Power Plant, San Diego, California, prepared for San Diego Gas and Electric Company: dated July 14.

ENV America Incorporated, 2004a, Technical Report for RWQCB Investigative Order No. R9-2004-0026, Silver Gate Power Plant, San Diego, California, prepared for San Diego Gas and Electric Company: dated July 14.

U.S. Environmental Protection Agency (EPA), 2000, SW-846. Test methods for Evaluating Solid Waste, Physical/Chemical Methods. Office of Solid Waste and Emergency Response. Washington, DC.

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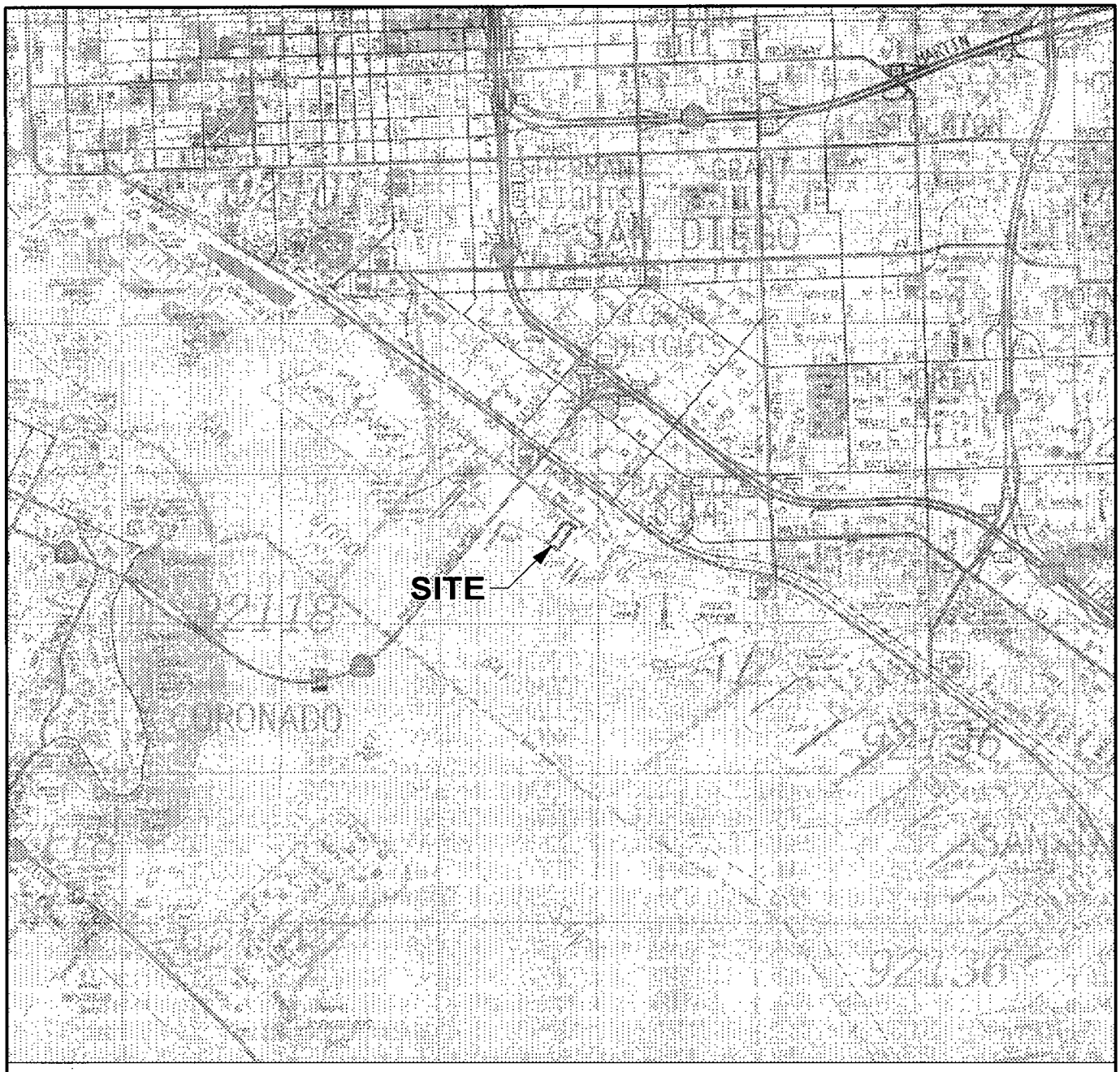


SOURCE: 2008 Thomas Guide for San Diego County, Street Guide and Directory; Map © Rand McNally, R.L 07-S-129

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

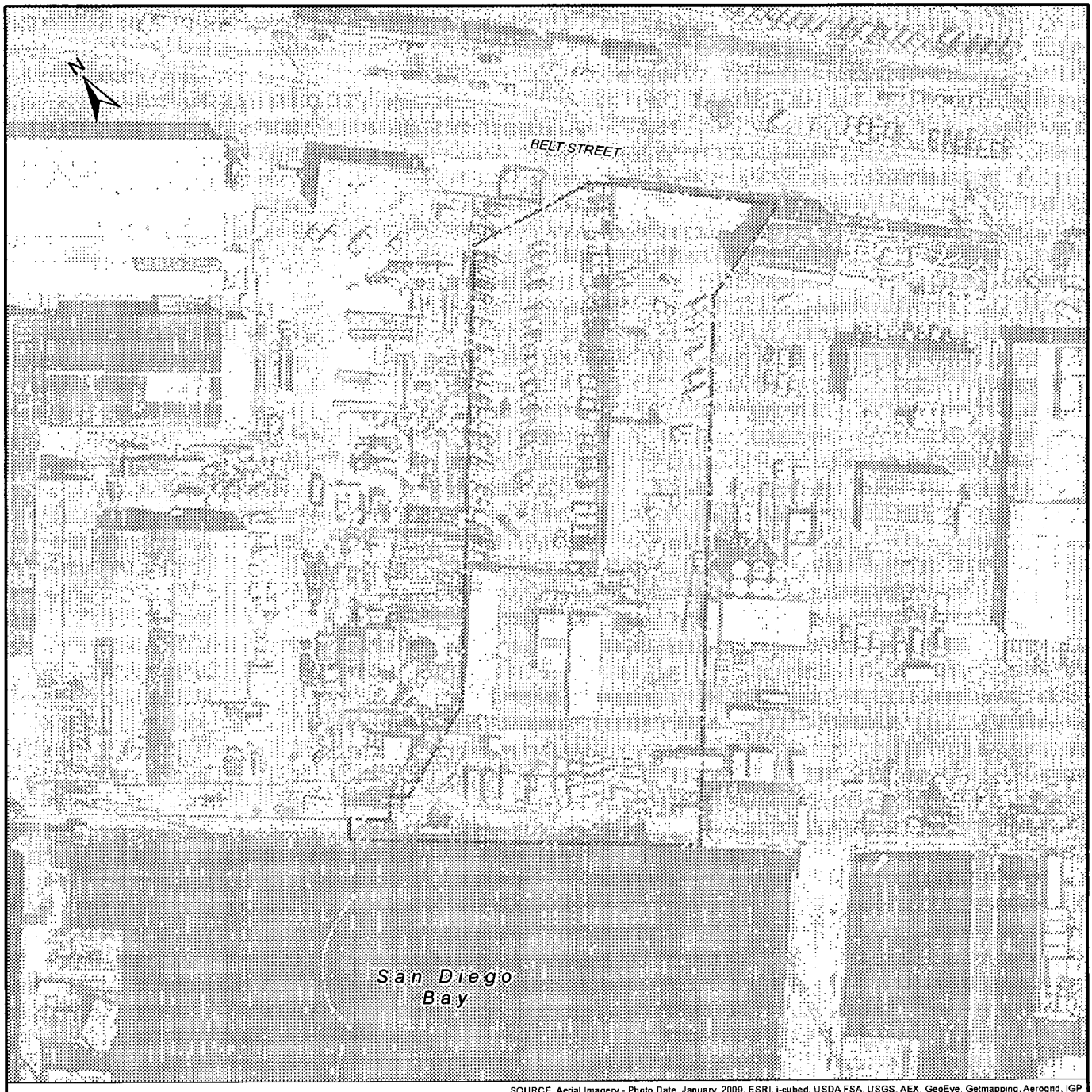
SCALE IN FEET

0 1,200 2,400 4,800

N

Ninyo & Moore		SITE LOCATION	FIGURE
PROJECT NO.	DATE	FORMER SDG&E TIDELANDS AREA SAN DIEGO, CALIFORNIA	1
106942001	5/11		

PORT098024



SOURCE Aerial Imagery - Photo Date January, 2009, ESRI, i-cubed, USDA FSA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGP

LEGEND

SITE BOUNDARY

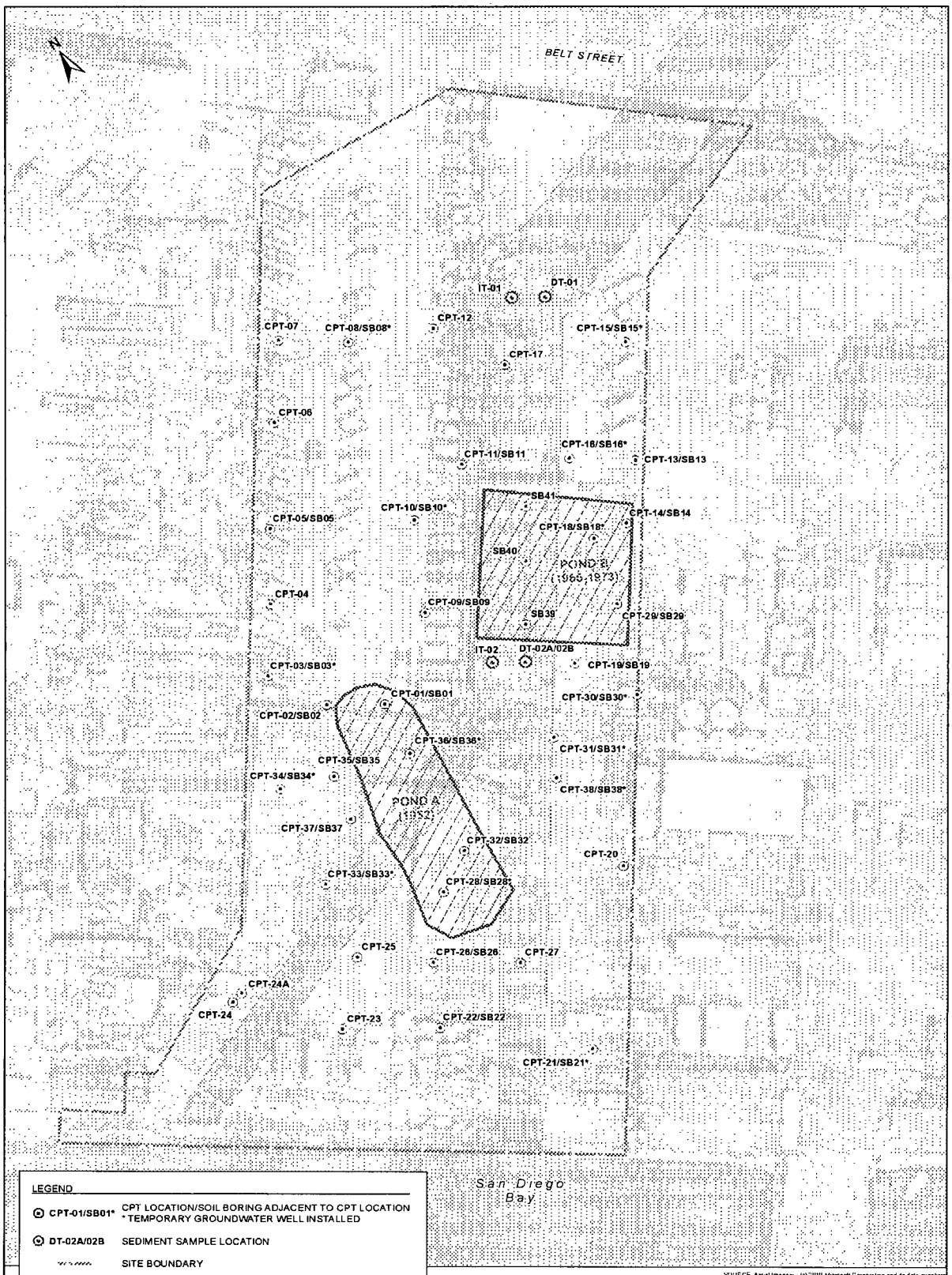
SCALE IN FEET

0 50 100 200

NOTE: DIRECTIONS, DIMENSIONS AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore	SITE PLAN	FIGURE
PROJECT NO. 106942001 / DATE 5/11	FORMER SDG&E TIDELANDS AREA SAN DIEGO, CALIFORNIA	2

PORT098025



Ninyo & Moore		CPT/SOIL BORING LOCATIONS	FIGURE
PROJECT NO	DATE	FORMER SDG&E TIDELANDS AREA SAMPSON & BELT STREET SAN DIEGO, CALIFORNIA	3
106942001	5/11		

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Table 1
Boring Completion Details and Sampling Depths

Boring ID	Date Advanced	Sampling Depths (feet bgs)	Temporary Well Screen Interval (feet bgs)	Measured Depth to Water (feet bgs)
CPT-01/SB01	12/18/2010	2.0-4.0 12.5-13.0 33.0-35.0	10-15	8.5
CPT-02/SB02	12/18/2010	1.0-3.0 14.0-16.0 34.0-36.0	--	--
CPT-03/SB03	12/18/2010	1.0-1.5 14.0-16.0 21.0-23.0 34.0-36.0	28-33	10.1
CPT-04/SB04	No Sampling			
CPT-05/SB05	12/18/2010	2.0-4.0 12.0-14.0 25.0-27.0 36.0-38.0	--	--
CPT-06	No Sampling			
CPT-07	No Sampling			
CPT-08/SB08	12/18/2010	3.0-5.0 14.0-16.0 17.0-19.0	14-19	9.95
CPT-09/SB09	12/18/2010	1.0-5.0 13.0-16.0 18.5-20.0 21.0-22.0 32.0-33.5	--	--
CPT-10/SB10	12/19/2010	4.0-5.0 7.5-9.0 20.0-22.0 24.0-25.5 32.0-33.0	27-32	9.5
CPT-11/SB11	12/19/2010	5.0-7.0 9.5-10.0 18.0-20.0	--	--
CPT-12	No Sampling			
CPT-13/SB13	12/21/2010	1.0-3.5 14.0-16.0 19.0-23.0	--	--
CPT-14/SB14	12/21/2010	3.0-5.0 12.5-14.0 15.0-16.5 16.5-17.5	--	--
CPT-15/SB15	12/21/2010	3.0-5.0 12.0-14.0 16.0-18.0	13-18	9.25
CPT-16/SB16	12/21/2010	4.0-6.0 16.0-18.0	13-18	9.2

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Table 1
Boring Completion Details and Sampling Depths

Boring ID	Date Advanced	Sampling Depths (feet bgs)	Temporary Well Screen Interval (feet bgs)	Measured Depth to Water (feet bgs)
CPT-17	No Sampling			
CPT-18/SB18	12/20/2010	1.0-3.0	24-29	9.11
		3.0-5.0		
		8.0-9.0		
		12.0-13.5		
		22.0-24.0		
		27.5-29.0		
CPT-19/SB19	12/20/2010	15.5-16.0	--	--
		18.0-20.0		
		22.0-25.0		
CPT-20	No Sampling			
CPT-21/SB21	12/20/2010	3.0-5.0	20-25	9.95
		13.0-14.5		
		28.0-30.0		
CPT-22/SB22	12/20/2010	4.0-6.0	--	--
		9.5-10.5		
		16.0-18.0		
		21.0-23.0		
CPT-23	No Sampling			
CPT-24	No Sampling			
CPT-25	No Sampling			
CPT-26/SB26	12/19/2010	2.0-4.0	--	--
		8.0-10.0		
		14.0-16.0		
		24.0-26.0		
CPT-27	No Sampling			
CPT-28/SB28	12/20/2010	3.0-5.0	15-20	9.75
		15.5-17.0		
		19.5-21.5		
		23.0-25.0		
CPT-29/SB29	12/20/2010	1.0-3.0	--	--
		3.0-5.0		
		13.0-15.5		
		16.5-17.0		
		21.0-24.0		
		25.0-26.5		
CPT-30/SB30	12/20/2010	3.0-5.0	15-20	9.81
		13.0-15.0		
		18.0-20.0		
		26.0-28.0		
CPT-31/SB31	12/21/2010	3.0-5.0	22-27	8.94
		24.5-25.5		
		26.0-30.0		
		30.0-34.0		

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Table 1
Boring Completion Details and Sampling Depths

Boring ID	Date Advanced	Sampling Depths (feet bgs)	Temporary Well Screen Interval (feet bgs)	Measured Depth to Water (feet bgs)
CPT-32/SB32	12/21/2010	4.0-5.0 12.0-15.0 15.0-16.0 28.0-30.0	--	
CPT-33/SB33	12/19/2010	1.0-3.0 15.5-16.5 25.0-27.0 37.0-39.0	20-25	9.65
CPT-34/SB34	12/19/2010	1.0-3.0 14.0-16.0 24.0-26.0	13-18	9.75
CPT-35/SB35	12/19/2010	1.0-3.0 7.0-8.5 14.0-18.0	--	--
CPT-36/SB36	12/19/2010	1.0-4.0 7.0-9.0 14.0-25.0 35.0-36.5	20-25	9.4
CPT-37/SB37	12/19/2010	1.0-3.0 10.0-12.0 13.0-15.0	--	--
CPT-38/SB38	12/21/2010	1.0-3.0 10.0-12.0 30.0-32.0	25-30	8.64
SB39	No Sampling / Refusal at 1 foot bgs			
SB40	12/20/2010	2.0-3.0 5.0-6.5 10.0-11.5	--	--
SB41	No Sampling / Refusal at 2 feet bgs			

Notes:
ngs = below ground surface
CPT = cone penetration testing
SB = soil boring

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SDG&E Tidelands Area
San Diego, California

Table 2
Analytes Detected* in Soil

January 28, 2011
Revised May 24, 2011
Project No. 106942001

	Boring ID:	SB01	SB01	SB01	SB02	SB02	SB02	SB02	SB03	SB03	SB03	SB03	SB05	SB05	SB05
	Sample Depth (feet bgs):	04.0	13.0	35.0	02.0	03.0	16.0	34.5	01.5	16.0	21.5	34.5	04.0	12.5	14.0
	Sample ID:	SB01-2.0-4.0	SB01-12.5-13.0	SB01-34.5-35.0	SB02-1.5-2.0	SB02-1.0-3.0	SB02-14.0-16.0	SB02-34.0-34.5	SB03-1.0-1.5	SB03-14.0-16.0	SB03-21.0-21.5	SB03-34.0-34.5	SB05-2.0-4.0	SB05-12.0-12.5	SB05-12.0-14.0
ANALYSIS	ANALYTE	UNITS													
PCBs/PCTs	Aroclor 1254	µg/kg													
PCBs/PCTs	Aroclor 1260	µg/kg													
PCBs/PCTs	Aroclor 5460	µg/kg													
PAHs	Acenaphthene	mg/kg													
PAHs	Acenaphthylene	mg/kg					1.3			3.1				0.12		
PAHs	Anthracene	mg/kg					0.63			1.5				0.064		
PAHs	Benzo(a)anthracene	mg/kg	0.023	0.050			3.4			7.6	0.045			0.27		
PAHs	Benzo(a)pyrene	mg/kg	0.034	0.092			5.2	0.031		13	0.15			0.44		0.042
PAHs	Benzo(b)fluoranthene	mg/kg	0.030	0.061			3.5			8.6	0.12			0.30		0.031
PAHs	Benzo(g,h,i)perylene	mg/kg	0.040	0.070			5.7	0.030		13	0.16			0.55		0.042
PAHs	Benzo(k)fluoranthene	mg/kg	0.023	0.063			3.7			8.1	0.074			0.33		0.026
PAHs	Chrysene	mg/kg	0.036	0.064			4.6			10	0.055			0.36		
PAHs	Dibenzo(a,h)anthracene	mg/kg					0.87			2.0				0.074		
PAHs	Fluoranthene	mg/kg	0.032	0.083			5.0			12	0.10			0.40		0.030
PAHs	Fluorene	mg/kg														
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg	0.024	0.054			4.0			9.2	0.11			0.37		0.029
PAHs	1-Methylnaphthalene	mg/kg					0.26									
PAHs	2-Methylnaphthalene	mg/kg					0.51			0.49						
PAHs	Naphthalene	mg/kg					0.92			1.2				0.069		
PAHs	Phenanthrene	mg/kg					2.3			4.6				0.19		
PAHs	Pyrene	mg/kg	0.057	0.13			9.5	0.039		23	0.14			0.75		0.031
TPH	C11-C12	mg/kg					6.8									
TPH	C13-C14	mg/kg					10									
TPH	C15-C16	mg/kg					16									
TPH	C17-C18	mg/kg					21			97						
TPH	C19-C20	mg/kg					23			220						
TPH	C21-C22	mg/kg					22			280						
TPH	C23-C24	mg/kg					17			220						
TPH	C25-C28	mg/kg					33			300				7.0		
TPH	C29-C32	mg/kg	11				66			410				13		
TPH	C33-C36	mg/kg	7.9				47			240				7.2		
TPH	C37-C40	mg/kg	8.9				37			150				6.2		
TPH	C41-C44	mg/kg	5.7				24			77						
TPH	C6-C44 Total	mg/kg	38				320			2100				48		
VOCs	Benzene	µg/kg				1.7				3.5						
VOCs	Carbon disulfide	µg/kg														
VOCs	Chlorobenzene	µg/kg														
VOCs	1,2-Dichlorobenzene	µg/kg														
VOCs	1,4-Dichlorobenzene	µg/kg														
VOCs	1,1-Dichloroethane	µg/kg										1.2				
VOCs	1,2-Dichloroethane	µg/kg														
VOCs	1,1-Dichloroethene	µg/kg						1.9			10	9.2		2.2		
VOCs	cis-1,2-Dichloroethene	µg/kg			1.6			1.8			1.6	1.7		1.2		
VOCs	trans-1,2-Dichloroethene	µg/kg														
VOCs	Ethylbenzene	µg/kg														
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg														
VOCs	Methyl tert-butyl ether (MTBE)	µg/kg														
VOCs	Toluene	µg/kg								1.6						
VOCs	Trichloroethene	µg/kg			2.6			5.0			4.7	5.9				
VOCs	Vinyl Chloride	µg/kg														

Notes:
*Detected metals not included.
bgs = below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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SDG&E Tidelands Area
San Diego, California

Table 2
Analytes Detected* in Soil

January 28, 2011
Revised May 24, 2011
Project No 106942001

		Boring ID:	SB05	SB05	SB08	SB08	SB08	SB08	SB09	SB09	SB09	SB09	SB09	SB09	SB09	SB10
		Sample Depth (feet bgs):	25.5	36.5	95.0	15.5	16.0	19.0	04.5	05.0	16.0	20.0	22.0	22.5	34.0	05.0
		Sample ID:	SB05-25.0-25.5	SB05-36.0-36.5	SB08-3.0-5.0	SB08-15.0-15.5	SB08-14.0-16.0	SB08-18.5-19.0	SB09-4.0-4.5	SB09-1.0-5.0	SB09-13.0-16.0	SB09-18.5-20.0	SB09-21.0-22.0	SB09-22.0-22.5	SB09-33.0-34.0	SB10-4.0-5.0
ANALYSIS	ANALYTE	UNITS														
PCBs/PCTs	Aroclor 1254	µg/kg														
PCBs/PCTs	Aroclor 1260	µg/kg														
PCBs/PCTs	Aroclor 5460	µg/kg			390											
PAHs	Acenaphthene	mg/kg														
PAHs	Acenaphthylene	mg/kg			0.042											
PAHs	Anthracene	mg/kg			0.025											
PAHs	Benzo(a)anthracene	mg/kg			0.068		0.034									
PAHs	Benzo(a)pyrene	mg/kg			0.11		0.10			0.028			0.029			0.024
PAHs	Benzo(b)fluoranthene	mg/kg			0.080		0.082			0.025						
PAHs	Benzo(g,h,i)perylene	mg/kg			0.16		0.096			0.033			0.029			
PAHs	Benzo(k)fluoranthene	mg/kg			0.074		0.058						0.026			
PAHs	Chrysene	mg/kg			0.083		0.030			0.022			0.029			
PAHs	Dibenzo(a,h)anthracene	mg/kg			0.023											
PAHs	Fluoranthene	mg/kg			0.082		0.045			0.022			0.080			0.024
PAHs	Fluorene	mg/kg														
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg			0.10		0.068									
PAHs	1-Methylnaphthalene	mg/kg														
PAHs	2-Methylnaphthalene	mg/kg														
PAHs	Naphthalene	mg/kg														
PAHs	Phenanthrene	mg/kg			0.042											
PAHs	Pyrene	mg/kg			0.13		0.092			0.033	0.035	0.051	0.10			0.031
TPH	C11-C12	mg/kg														
TPH	C13-C14	mg/kg														
TPH	C15-C16	mg/kg														
TPH	C17-C18	mg/kg														
TPH	C19-C20	mg/kg			5.6											
TPH	C21-C22	mg/kg			7.2											
TPH	C23-C24	mg/kg			5.8											
TPH	C25-C28	mg/kg			13											
TPH	C29-C32	mg/kg			28											
TPH	C33-C36	mg/kg			17											
TPH	C37-C40	mg/kg			8.2											
TPH	C41-C44	mg/kg														
TPH	C6-C44 Total	mg/kg			92											
VOCs	Benzene	µg/kg							1.4							
VOCs	Carbon disulfide	µg/kg														
VOCs	Chlorobenzene	µg/kg														
VOCs	1,2-Dichlorobenzene	µg/kg														
VOCs	1,4-Dichlorobenzene	µg/kg														
VOCs	1,1-Dichloroethane	µg/kg														
VOCs	1,2-Dichloroethane	µg/kg	0.84	1.9												
VOCs	1,1-Dichloroethene	µg/kg	1.7													
VOCs	cis-1,2-Dichloroethene	µg/kg				1.1		1.9						3.4		
VOCs	trans-1,2-Dichloroethene	µg/kg														
VOCs	Ethylbenzene	µg/kg													0.86	
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg														
VOCs	Methyl Tert-butyl ether (MTBE)	µg/kg														
VOCs	Toluene	µg/kg														
VOCs	Trichloroethene	µg/kg	2.5	2.2				4.4								
VOCs	Vinyl Chloride	µg/kg														

Notes:
*Detected metals not included.
bgs = below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

PORT098031

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SDG&E Tidelands Area
San Diego, California

Table 2
Analytes Detected* in Soil

January 28, 2011
Revised May 24, 2011
Project No 106942001

	Boring ID:	SB10	SB10	SB10	SB10	SB11	SB11	SB11	SB11	SB11	SB13	SB13	SB13	SB13	SB14
	Sample Depth (feet bgs):	09.0	22.0	25.5	25.5	07.0	07.5	10.0	11.0	20.0	03.5	15.0	16.0	22.5	04.5
	Sample ID:	SB10-7.5-9.0	SB10-20.0-22.0	SB10-24.0-25.5	SB10-25.0-25.5	SB11-5.0-7.0	SB11-7.0-7.5	SB11-9.5-10.0	SB11-10.5-11.0	SB11-18.0-20.0	SB13-1.0-3.5	SB13-14.5-15.0	SB13-14.0-16.0	SB13-22.0-22.5	SB14-4.0-4.5
ANALYSIS	ANALYTE	UNITS													
PCBs/PCTs	Aroclor 1254	µg/kg													
PCBs/PCTs	Aroclor 1260	µg/kg													
PCBs/PCTs	Aroclor 5460	µg/kg													
PAHs	Acenaphthene	mg/kg													
PAHs	Acenaphthylene	mg/kg				0 033					0 048				
PAHs	Anthracene	mg/kg									0 043				
PAHs	Benzo(a)anthracene	mg/kg	0 031	0 031	0.11	0 068		0 031		0.028	0.072		0.026		
PAHs	Benzo(a)pyrene	mg/kg	0 044	0 025	0 034	0 10		0 044		0 053	0 078		0.059		
PAHs	Benzo(b)fluoranthene	mg/kg	0 035	0 030	0 045	0.083		0 043		0 062	0.074		0.041		
PAHs	Benzo(g,h,i)perylene	mg/kg	0 029			0 088		0 036			0 17		0 049		
PAHs	Benzo(k)fluoranthene	mg/kg	0 034	0 027	0 037	0.077				0 052	0.057		0 037		
PAHs	Chrysene	mg/kg	0 042	0 036	0 099	0 091		0 042		0 040	0.10		0 027		
PAHs	Dibenzo(a,h)anthracene	mg/kg													
PAHs	Fluoranthene	mg/kg	0 047	0 052	0 74	0 084		0 037		0 056	0 13		0 046		
PAHs	Fluorene	mg/kg													
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg	0 024			0 055		0 024			0 057		0 037		
PAHs	1-Methylnaphthalene	mg/kg													
PAHs	2-Methylnaphthalene	mg/kg													
PAHs	Naphthalene	mg/kg											0.052		
PAHs	Phenanthrene	mg/kg				0 024					0 10				
PAHs	Pyrene	mg/kg	0 057	0.13	0 68	0 12		0.053		0.23	0 17		0 12		
TPH	C11-C12	mg/kg													
TPH	C13-C14	mg/kg													
TPH	C15-C16	mg/kg													
TPH	C17-C18	mg/kg													
TPH	C19-C20	mg/kg			7 1										
TPH	C21-C22	mg/kg			18										
TPH	C23-C24	mg/kg			61						18				
TPH	C25-C28	mg/kg			120	5.9		9 8			31		7.4		
TPH	C29-C32	mg/kg			94	25		64			66		11		
TPH	C33-C36	mg/kg			62	20		58			56				
TPH	C37-C40	mg/kg			40	16		52			47				
TPH	C41-C44	mg/kg			29	15		44			32				
TPH	C6-C44 Total	mg/kg			430	84		230			270		36		
VOCs	Benzene	µg/kg					1.3		1.7						3.4
VOCs	Carbon disulfide	µg/kg										11			
VOCs	Chlorobenzene	µg/kg													
VOCs	1,2-Dichlorobenzene	µg/kg													
VOCs	1,4-Dichlorobenzene	µg/kg													
VOCs	1,1-Dichloroethane	µg/kg													
VOCs	1,2-Dichloroethane	µg/kg													
VOCs	1,1-Dichloroethene	µg/kg													
VOCs	cis-1,2-Dichloroethene	µg/kg				1 1								11	
VOCs	trans-1,2-Dichloroethene	µg/kg												1.0	
VOCs	Ethylbenzene	µg/kg													
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg													
VOCs	Methyl Tert-butyl ether (MTBE)	µg/kg													
VOCs	Toluene	µg/kg													
VOCs	Trichloroethene	µg/kg												16	
VOCs	Vinyl Chloride	µg/kg													

Notes:
*Detected metals not included
bgs = below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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SDG&E Tidelands Area
San Diego, California

Table 2
Analytes Detected* in Soil

January 28, 2011
Revised May 24, 2011
Project No. 106942001

	Boring ID:	SB14	SB14	SB14	SB15	SB15	SB16	SB18	SB18	SB18	SB18	SB18	SB19	SB18	SB19
	Sample Depth (feet bgs):	14.0	16.5	17.5	17.0	18.0	18.0	03.0	05.0	09.0	13.5	13.5	23.5	28.0	16.0
	Sample ID:	SB14-12.5-14.0	SB14-15.0-16.5	SB14-16.5-17.5	SB15-16.5-17.0	SB15-16.0-18.0	SB16-16.0-18.0	SB18-1.0-3.0	SB18-3.0-5.0	SB18-8.0-9.0	SB18-12.0-13.5	SB18-13.0-13.5	SB18-23.0-23.5	SB18-27.5-28.0	SB19-15.5-16.0
ANALYSIS	ANALYTE	UNITS													
PCBs/PCTs	Aroclor 1254	µg/kg						190	140						
PCBs/PCTs	Aroclor 1260	µg/kg						200	150						
PCBs/PCTs	Aroclor 5460	µg/kg						210		75					
PAHs	*Acenaphthene*	*mg/kg*						*0.58*	*0.85*						
PAHs	Acenaphthylene	mg/kg			0.029				0.55	0.20					
PAHs	Anthracene	mg/kg						0.39	1.7	0.23					
PAHs	Benzo(a)anthracene	mg/kg	0.076		0.12			0.60	2.7	0.60	0.18				0.059
PAHs	Benzo(a)pyrene	mg/kg	0.15		0.24		0.035	0.65	2.6	0.66	0.18				0.064
PAHs	Benzo(b)fluoranthene	mg/kg	0.11		0.16		0.036	0.36	1.1	0.52					0.035
PAHs	Benzo(g,h,i)perylene	mg/kg	0.12		0.19		0.029	0.60	1.7	0.55	0.16				0.034
PAHs	Benzo(k)fluoranthene	mg/kg	0.088		0.15			0.25		0.35					0.049
PAHs	Chrysene	mg/kg	0.086		0.14			1.1	5.1	0.85	0.30				0.072
PAHs	Dibenzo(a,h)anthracene	mg/kg													
PAHs	Fluoranthene	mg/kg	0.17		0.25		0.030	0.025	0.56	1.9	1.0	0.18			0.082
PAHs	Fluorene	mg/kg							0.56						
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg	0.089		0.14				0.34	0.60	0.36				0.029
PAHs	1-Methylnaphthalene	mg/kg							3.5	0.52	0.25				
PAHs	2-Methylnaphthalene	mg/kg							0.44						
PAHs	Naphthalene	mg/kg								0.11					
PAHs	Phenanthrene	mg/kg			0.026				2.1	7.0	1.8	0.56			
PAHs	Pyrene	mg/kg	0.33		0.45		0.055	0.042	1.8	10	2.1	0.83			0.11
TPH	C11-C12	mg/kg													
TPH	C13-C14	mg/kg							120						
TPH	C15-C16	mg/kg							120	330		34			
TPH	C17-C18	mg/kg							140	530	39	51			
TPH	C19-C20	mg/kg	7.3						170	790	62	80			
TPH	C21-C22	mg/kg	8.7						230	830	72	80			
TPH	C23-C24	mg/kg	8.2						390	1400	120	130			
TPH	C25-C28	mg/kg	12	6.8					670	2100	200	210			
TPH	C29-C32	mg/kg	19	11	9.2				1000	2800	290	310			
TPH	C33-C36	mg/kg	10						680	2100	190	220			
TPH	C37-C40	mg/kg	7.5						540	1500	190	190			
TPH	C41-C44	mg/kg							340	1000	160	150			
TPH	C6-C44 Total	mg/kg	87	42	38				4400	14000	1400	1500			17
VOCs	Benzene	µg/kg													
VOCs	Carbon disulfide	µg/kg													
VOCs	Chlorobenzene	µg/kg										1.1			
VOCs	1,2-Dichlorobenzene	µg/kg										1.8			
VOCs	1,4-Dichlorobenzene	µg/kg										1.4			
VOCs	1,1-Dichloroethane	µg/kg													
VOCs	1,2-Dichloroethane	µg/kg													
VOCs	1,1-Dichloroethene	µg/kg													
VOCs	cis-1,2-Dichloroethene	µg/kg				1.6							2.7	7.0	
VOCs	trans-1,2-Dichloroethene	µg/kg													
VOCs	Ethylbenzene	µg/kg													
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg										33			
VOCs	*Methyl Tert-butyl ether (MTBE)*	*µg/kg*													
VOCs	Toluene	µg/kg													
VOCs	Trichloroethene	µg/kg											3.1	17	
VOCs	Vinyl Chloride	µg/kg													

Notes:
*Detected metals not included.
bgs = below ground surface
mg/kg = *milligrams per kilogram*
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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Table 2
Analytes Detected* in Soil

		Boring ID:	SB19	SB19	SB19	SB21	SB21	SB21	SB21	SB21	SB22	SB22	SB22	SB26	SB26	SB26
		Sample Depth (feet bgs):	17.5	22.5	25.0	05.0	05.0	14.0	14.5	28.0	06.0	17.5	18.0	04.0	10.0	10.0
		Sample ID:	SB19-17.0-17.5	SB19-22.0-22.5	SB19-22.0-25.0	SB21-3.0-5.0	SB21-4.5-5.0	SB21-13.5-14.0	SB21-13.0-14.5	SB21-27.5-28.0	SB22-4.0-6.0	SB22-17.0-17.5	SB22-16.0-18.0	SB26-2.5-4.0	SB26-8.0-10.0	SB26-9.5-10.0
ANALYSIS	ANALYTE	UNITS														
PCBs/PCTs	Aroclor 1254	µg/kg				100										
PCBs/PCTs	Aroclor 1260	µg/kg				110										
PCBs/PCTs	Aroclor 5460	µg/kg				4200										
PAHs	Acenaphthene	mg/kg														
PAHs	Acenaphthylene	mg/kg				0 075					0 032					
PAHs	Anthracene	mg/kg				0 049										
PAHs	Benzo(a)anthracene	mg/kg				0 16					0 068			0 043		
PAHs	Benzo(a)pyrene	mg/kg				0 28			0 063		0 10			0 072		
PAHs	Benzo(b)fluoranthene	mg/kg				0 22			0 050		0 054			0 063		
PAHs	Benzo(g,h,i)perylene	mg/kg				0 36			0 068		0 081			0 073		
PAHs	Benzo(k)fluoranthene	mg/kg				0 17			0 037		0 083			0 044		
PAHs	Chrysene	mg/kg				0 21			0 026		0 096			0 059		
PAHs	Dibenzo(a,h)anthracene	mg/kg				0 039										
PAHs	Fluoranthene	mg/kg				0 30			0 040		0 094			0 16	0 024	
PAHs	Fluorene	mg/kg			0 031											
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg				0 24			0 047		0 064			0 049		
PAHs	1-Methylnaphthalene	mg/kg														
PAHs	2-Methylnaphthalene	mg/kg														
PAHs	Naphthalene	mg/kg				0 028										
PAHs	Phenanthrene	mg/kg				0 17								0 056		
PAHs	Pyrene	mg/kg			0 027	0 45			0 060		0 12		0 025	0 14	0 026	
TPH	C11-C12	mg/kg														
TPH	C13-C14	mg/kg														
TPH	C15-C16	mg/kg														
TPH	C17-C18	mg/kg														
TPH	C19-C20	mg/kg														
TPH	C21-C22	mg/kg														
TPH	C23-C24	mg/kg											17			
TPH	C25-C28	mg/kg				19							23			
TPH	C29-C32	mg/kg				50					14		28			
TPH	C33-C36	mg/kg				49					15		14			
TPH	C37-C40	mg/kg				50					21		10			
TPH	C41-C44	mg/kg				41					21		6 5			
TPH	C6-C44 Total	mg/kg				230					74		97	20		
VOCs	Benzene	µg/kg					1 1									1.1
VOCs	Carbon disulfide	µg/kg														
VOCs	Chlorobenzene	µg/kg														
VOCs	1,2-Dichlorobenzene	µg/kg														
VOCs	1,4-Dichlorobenzene	µg/kg														
VOCs	1,1-Dichloroethane	µg/kg														
VOCs	1,2-Dichloroethane	µg/kg														
VOCs	1,1-Dichloroethene	µg/kg														
VOCs	cis-1,2-Dichloroethene	µg/kg	1 8	2.2						5.1		3 1				
VOCs	trans-1,2-Dichloroethene	µg/kg														
VOCs	Ethylbenzene	µg/kg														
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg														
VOCs	Methyl Tert-butyl ether (MTBE)	µg/kg								1.9						
VOCs	Toluene	µg/kg														
VOCs	Trichloroethene	µg/kg	2 4	3.0				4.7		6.8						
VOCs	Vinyl Chloride	µg/kg														

Notes:
*Detected metals not included
bgs = below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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SDG&E Tidelands Area
San Diego, California

Table 2
Analytes Detected* in Soil

January 28, 2011
Revised May 24, 2011
Project No. 106942001

		Boring ID:	SB26	SB26	SB28	SB28	SB29	SB29	SB29	SB29	SB29	SB29	SB29	SB30	SB30	SB31
		Sample Depth (feet bgs):	*15.5*	*16.0*	*05.0*	*21.5*	*03.0*	*04.5*	*05.0*	*15.5*	*17.0*	*23.5*	*26.0*	*15.0*	*26.5*	*04.5*
		Sample ID:	SB26-15.0-15.5	SB26-14.0-16.0	SB28-3.0-5.0	SB28-19.5-21.5	SB29-1.0-3.0	SB29-4.0-4.5	SB29-3.0-5.0	SB29-13.0-15.5	SB29-16.5-17.0	SB29-23.0-23.5	SB29-25.5-26.0	SB30-13.0-15.0	SB30-26.0-26.5	SB31-4.0-4.5
ANALYSIS	ANALYTE	UNITS														
PCBs/PCTs	Aroclor 1254	µg/kg					290									
PCBs/PCTs	Aroclor 1260	µg/kg					230									
PCBs/PCTs	Aroclor 5460	µg/kg					340				78					
PAHs	Acenaphthene	mg/kg														
PAHs	Acenaphthylene	mg/kg							0.030		0.065					
PAHs	Anthracene	mg/kg														
PAHs	Benzo(a)anthracene	mg/kg							0.054	0.032	0.093					
PAHs	Benzo(a)pyrene	mg/kg		0.072			0.39		0.18	0.089	0.32					
PAHs	Benzo(b)fluoranthene	mg/kg		0.052			0.27		0.10	0.059	0.21					
PAHs	Benzo(g,h,i)perylene	mg/kg		0.063			0.60		0.17	0.077	0.24					
PAHs	Benzo(k)fluoranthene	mg/kg		0.036					0.097	0.058	0.14					
PAHs	Chrysene	mg/kg		0.025			0.32		0.077	0.040	0.18					
PAHs	Dibenz(a,h)anthracene	mg/kg							0.022							
PAHs	Fluoranthene	mg/kg		0.083	0.026				0.047	0.066	0.058					
PAHs	Fluorene	mg/kg														
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg		0.049					0.11	0.058	0.16					
PAHs	1-Methylnaphthalene	mg/kg														
PAHs	2-Methylnaphthalene	mg/kg														
PAHs	Naphthalene	mg/kg														
PAHs	Phenanthrene	mg/kg														
PAHs	Pyrene	mg/kg		0.074	0.026		0.38		0.11	0.19	0.21					
TPH	C11-C12	mg/kg														
TPH	C13-C14	mg/kg														
TPH	C15-C16	mg/kg														
TPH	C17-C18	mg/kg														
TPH	C19-C20	mg/kg									14					
TPH	C21-C22	mg/kg					240				19			5.7		
TPH	C23-C24	mg/kg					400				36			7.8		
TPH	C25-C28	mg/kg					900			6.6	59			16		
TPH	C29-C32	mg/kg			8.6		1300		8.6	12	99			28		
TPH	C33-C36	mg/kg			8.8		900		6.1	6.6	70			26		
TPH	C37-C40	mg/kg			12		760				53			26		
TPH	C41-C44	mg/kg			13		470				32			15		
TPH	C6-C44 Total	mg/kg			42	15	5100		31	45	390			130		
VOCs	Benzene	µg/kg														1.4
VOCs	Carbon disulfide	µg/kg						15								
VOCs	Chlorobenzene	µg/kg														
VOCs	1,2-Dichlorobenzene	µg/kg														
VOCs	1,4-Dichlorobenzene	µg/kg														
VOCs	1,1-Dichloroethene	µg/kg														
VOCs	1,2-Dichloroethene	µg/kg														
VOCs	1,1-Dichloroethene	µg/kg														
VOCs	cis-1,2-Dichloroethene	µg/kg	1.1									4.8	4.3			
VOCs	trans-1,2-Dichloroethene	µg/kg														
VOCs	Ethylbenzene	µg/kg														
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg														
VOCs	Methyl Tert-butyl ether (MTBE)	µg/kg													6.4	
VOCs	Toluene	µg/kg														
VOCs	Trichloroethene	µg/kg										5.8	5.7			
VOCs	Vinyl Chloride	µg/kg														

Notes:
*Detected metals not included.
bgs = below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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SDG&E Tidelands Area
San Diego, California

Table 2
Analytes Detected* in Soil

January 28, 2011
Revised May 24 2011
Project No. 106942001

	Boring ID:	SB31	SB31	SB31	SB31	SB31	SB32	SB32	SB32	SB32	SB33	SB33	SB33	SB33	SB33
	Sample Depth (feet bgs):	05.0	25.5	25.5	28.0	33.5	05.0	15.0	16.0	29.5	03.0	16.5	27.0	27.0	38.5
	Sample ID:	SB31-3.0-5.0	SB31-24.5-25.5	SB31-25.0-25.5	SB31-27.0-28.0	SB31-33.0-33.5	SB32-4.0-5.0	SB32-12.0-15.0	SB32-15.0-16.0	SB32-29.0-29.5	SB33-1.0-3.0	SB33-16.0-16.5	SB33-25.0-27.0	SB33-26.5-27.0	SB33-38.0-38.5
ANALYSIS	ANALYTE	UNITS													
PCBs/PCTs	Aroclor 1254	µg/kg													
PCBs/PCTs	Aroclor 1260	µg/kg													
PCBs/PCTs	Aroclor 5460	µg/kg													
PAHs	Acenaphthene	mg/kg													
PAHs	Acenaphthylene	mg/kg					0 026	2 6							
PAHs	Anthracene	mg/kg						2 7							
PAHs	Benzo(a)anthracene	mg/kg					0.060	11	1 6		0.034				
PAHs	Benzo(a)pyrene	mg/kg					0 10	14	2.2		0 096				
PAHs	Benzo(b)fluoranthene	mg/kg					0.075	7.8	1.4		0.078				
PAHs	Benzo(g,h,i)perylene	mg/kg	0 023				0 11	10	1 6		0 12				
PAHs	Benzo(k)fluoranthene	mg/kg					0.080	11	1.7		0.041				
PAHs	Chrysene	mg/kg					0 082	14	1.7		0 054				
PAHs	Dibenzo(a,h)anthracene	mg/kg						1.4							
PAHs	Fluoranthene	mg/kg					0 094	23	3 6		0 10				
PAHs	Fluorene	mg/kg													
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg					0 080	7.4	1.2		0 079				
PAHs	1-Methylnaphthalene	mg/kg													
PAHs	2-Methylnaphthalene	mg/kg													
PAHs	Naphthalene	mg/kg						2.6							
PAHs	Phenanthrene	mg/kg					0 049	12			0 033				
PAHs	Pyrene	mg/kg	0 025				0 15	40	6 7		0 14		0 026		
TPH	C11-C12	mg/kg						17							
TPH	C13-C14	mg/kg						48							
TPH	C15-C16	mg/kg						63							
TPH	C17-C18	mg/kg						110							
TPH	C19-C20	mg/kg						170							
TPH	C21-C22	mg/kg						160							
TPH	C23-C24	mg/kg						99							
TPH	C25-C28	mg/kg						130	17						
TPH	C29-C32	mg/kg	9 4	14				140	41						
TPH	C33-C36	mg/kg	8 8	12				79	31						
TPH	C37-C40	mg/kg	8 8	12				52	24						
TPH	C41-C44	mg/kg	6.4	10				26	15						
TPH	C6-C44 Total	mg/kg	37	56				1100	140						
VOCs	Benzene	µg/kg										1.3			
VOCs	Carbon disulfide	µg/kg													
VOCs	Chlorobenzene	µg/kg													
VOCs	1,2-Dichlorobenzene	µg/kg													
VOCs	1,4-Dichlorobenzene	µg/kg													
VOCs	1,1-Dichloroethene	µg/kg													
VOCs	1,2-Dichloroethane	µg/kg													0 85
VOCs	1,1-Dichloroethene	µg/kg										3 2		1 3	
VOCs	cis-1,2-Dichloroethene	µg/kg			7.9	5.0	5 5			0.87		2 1		3 2	
VOCs	trans-1,2-Dichloroethene	µg/kg			2 0										
VOCs	Ethylbenzene	µg/kg													
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg													
VOCs	Methyl Tert-butyl ether (MTBE)	µg/kg													
VOCs	Toluene	µg/kg													
VOCs	Trichloroethene	µg/kg				6 7	10			4 6		2.4		5 8	
VOCs	Vinyl Chloride	µg/kg													

Notes:
*Detected metals not included
bgs = below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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Table 2
Analytes Detected* in Soil

	Boring ID:		SB34	SB34	SB34	SB34	SB34	SB35	SB35	SB35	SB35	SB36	SB36	SB36	SB36	SB37
	Sample Depth (feet bgs):		02.0	03.0	16.0	16.0	25.5	03.0	08.5	14.5	18.0	04.0	09.0	25.0	25.5	03.0
	Sample ID:		SB34-1.5-2.0	SB34-1.0-3.0	SB34-14.0-16.0	SB34-15.5-16.0	SB34-25.0-25.5	SB35-1.0-3.0	SB35-7.0-8.5	SB35-14.0-14.5	SB35-14.0-18.0	SB36-1.0-4.0	SB36-7.0-9.0	SB36-24.0-25.0	SB36-25.0-25.5	SB37-1.0-3.0
ANALYSIS	ANALYTE	UNITS														
PCBs/PCTs	Aroclor 1254	µg/kg														
PCBs/PCTs	Aroclor 1260	µg/kg						56					69			
PCBs/PCTs	Aroclor 5460	µg/kg														
PAHs	*Acenaphthene*	*mg/kg*														
PAHs	Acenaphthylene	mg/kg		0.94				0.44	0.044			1.5	0.084			0.23
PAHs	Anthracene	mg/kg		0.41				0.23				0.94	0.041			0.096
PAHs	Benzo(a)anthracene	mg/kg		1.9	0.033			0.69	0.10		0.045	3.1	0.12			0.30
PAHs	Benzo(a)pyrene	mg/kg		2.9	0.11			1.1	0.18		0.12	5.4	0.23			0.59
PAHs	Benzo(b)fluoranthene	mg/kg		1.9	0.092			0.84	0.17		0.11	3.8	0.17			0.44
PAHs	Benzo(g,h,i)perylene	mg/kg		2.9	0.094			1.4	0.17		0.10	5.3	0.25			0.61
PAHs	Benzo(k)fluoranthene	mg/kg		2.2	0.062			0.84	0.086		0.060	3.7	0.16			0.35
PAHs	Chrysene	mg/kg		2.6	0.040			0.98	0.15		0.049	4.3	0.18			0.43
PAHs	Dibenzo(a,h)anthracene	mg/kg		0.36								0.67	0.029			0.082
PAHs	Fluoranthene	mg/kg		2.1	0.063			1.1	0.17		0.075	7.1	0.22	0.040		0.40
PAHs	Fluorene	mg/kg														
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg		2.0	0.067			0.95	0.12		0.073	3.7	0.18			0.42
PAHs	1-Methylnaphthalene	mg/kg														
PAHs	2-Methylnaphthalene	mg/kg														0.027
PAHs	Naphthalene	mg/kg		0.36								0.63	0.034			0.074
PAHs	Phenanthrene	mg/kg		0.70				0.56	0.10			3.2	0.10			0.19
PAHs	Pyrene	mg/kg		4.7	0.12			1.8	0.28		0.18	10	0.38	0.059		0.76
TPH	C11-C12	mg/kg														
TPH	C13-C14	mg/kg														
TPH	C15-C16	mg/kg										8.1				
TPH	C17-C18	mg/kg		19				6.7				21				
TPH	C19-C20	mg/kg		20				6.8				28				
TPH	C21-C22	mg/kg		26				7.8				32				
TPH	C23-C24	mg/kg		24				6.9				22				
TPH	C25-C28	mg/kg		38				12				38				
TPH	C29-C32	mg/kg		68				25	11			78				7.8
TPH	C33-C36	mg/kg		70				21	10			74				
TPH	C37-C40	mg/kg		38				21	9.3			90				
TPH	C41-C44	mg/kg		32				11	8.1			75				
TPH	C6-C44 Total	mg/kg		340				120	42			470				24
VOCs	Benzene	µg/kg	1.5													
VOCs	Carbon disulfide	µg/kg														
VOCs	Chlorobenzene	µg/kg														
VOCs	1,2-Dichlorobenzene	µg/kg														
VOCs	1,4-Dichlorobenzene	µg/kg														
VOCs	1,1-Dichloroethane	µg/kg					1.2									
VOCs	1,2-Dichloroethane	µg/kg														
VOCs	1,1-Dichloroethene	µg/kg				0.89	14									
VOCs	cis-1,2-Dichloroethene	µg/kg					3.1			1.0					3.0	
VOCs	trans-1,2-Dichloroethene	µg/kg														
VOCs	Ethylbenzene	µg/kg														
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg														
VOCs	*Methyl Tert-butyl ether (MTBE)*	µg/kg														
VOCs	Toluene	µg/kg	1.8													
VOCs	Trichloroethene	µg/kg					5.9								5.2	
VOCs	Vinyl Chloride	µg/kg														

Notes:
*Detected metals not included
bgs = below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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Table 2
Analytes Detected* in Soil

	Boring ID:		SB37	SB37	SB38	SB38	SB40	SB40	SB40	SB40
	Sample Depth (feet bgs):		12.0	15.0	03.0	31.5	03.0	06.5	10.5	11.5
	Sample ID:		SB37-10.0-12.0	SB37-13.0-15.0	SB38-1.0-3.0	SB38-31.0-31.5	SB40-2.0-3.0	SB40-5.0-6.5	SB40-10.0-10.5	SB40-10.0-11.5
ANALYSIS	ANALYTE	UNITS								
PCBs/PCTs	Aroclor 1254	µg/kg			270		740			
PCBs/PCTs	Aroclor 1260	µg/kg			170		670			
PCBs/PCTs	Aroclor 5460	µg/kg			490		1500			
PAHs	Acenaphthene	mg/kg								
PAHs	Acenaphthylene	mg/kg			2.1					
PAHs*	Anthracene	mg/kg			1.9					
PAHs	Benzo(a)anthracene	mg/kg	0.027		5.8		0.081	0.033		0.047
PAHs	Benzo(a)pyrene	mg/kg	0.080	0.048	11		0.087	0.033		0.044
PAHs	Benzo(b)fluoranthene	mg/kg	0.064	0.037	5.8		0.081	0.023		0.026
PAHs	Benzo(g,h,i)perylene	mg/kg	0.068	0.043	7.8		0.097	0.024		
PAHs	Benzo(k)fluoranthene	mg/kg	0.045	0.028	6.5		0.072	0.027		0.037
PAHs	Chrysene	mg/kg	0.033		7.6		0.10	0.041		0.052
PAHs	Dibenzo(a,h)anthracene	mg/kg			1.1					
PAHs	Fluoranthene	mg/kg	0.057	0.045	12		0.12	0.070		0.079
PAHs	Fluorene	mg/kg			0.59					
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg	0.046	0.028	5.7		0.062			
PAHs	1-Methylnaphthalene	mg/kg			0.68					
PAHs	2-Methylnaphthalene	mg/kg			0.47					
PAHs	Naphthalene	mg/kg			1.5					
PAHs	Phenanthrene	mg/kg			8.3		0.068	0.059		
PAHs	Pyrene	mg/kg	0.083	0.053	23		0.14	0.082		0.090
TPH	C11-C12	mg/kg								
TPH	C13-C14	mg/kg			27					
TPH	C15-C16	mg/kg			33					
TPH	C17-C18	mg/kg			60					
TPH	C19-C20	mg/kg			100		19			
TPH	C21-C22	mg/kg			110		35			
TPH	C23-C24	mg/kg			90		70			
TPH	C25-C28	mg/kg			88		160			
TPH	C29-C32	mg/kg	8.3		150		260			
TPH	C33-C36	mg/kg			99		160			
TPH	C37-C40	mg/kg			78		110			
TPH	C41-C44	mg/kg			38		64			
TPH	C6-C44 Total	mg/kg	22		880		890	11		
VOCs	Benzene	µg/kg								
VOCs	Carbon disulfide	µg/kg								
VOCs	Chlorobenzene	µg/kg								
VOCs	1,2-Dichlorobenzene	µg/kg							1.0	
VOCs	1,4-Dichlorobenzene	µg/kg								
VOCs	1,1-Dichloroethane	µg/kg								
VOCs	1,2-Dichloroethane	µg/kg								
VOCs	1,1-Dichloroethene	µg/kg								
VOCs	cis-1,2-Dichloroethene	µg/kg				6.4				
VOCs	trans-1,2-Dichloroethene	µg/kg								
VOCs	Ethylbenzene	µg/kg								
VOCs	Freon 11 (Trichlorofluoromethane)	µg/kg								
VOCs	Methyl Tert-butyl ether (MTBE)	µg/kg								
VOCs	Toluene	µg/kg								
VOCs	Trichloroethene	µg/kg				11				
VOCs	Vinyl Chloride	µg/kg								

Notes:
*Detected metals not included.
bgs = below ground surface
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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SDG&E Tidelands Area
San Diego, California

Table 3
Analytes Detected in Groundwater*

January 28, 2011
Revised May 24, 2011
Project No. 106942001

		Boring ID:	SB01	SB03	SB08	SB10	SB15	SB18	SB21	SB28
		Sample ID:	SB01-GW-121810	SB03-GW-121810	SB08-GW-121810	SB10-GW-121910	SB15-GW-122110	SB18-GW-122010	SB21-GW-122010	SB28-GW-122010
ANALYSIS	ANALYTE	UNITS								
PAHs	Fluoranthene	ug/l				0.22				
PAHs	Naphthalene	ug/l								
TPH	C25-C28	ug/l					58		330	
TPH	C29-C32	ug/l					55		690	
TPH	C33-C36	ug/l							710	
TPH	C37-C40	ug/l							620	
TPH	C41-C44	ug/l							400	
TPH	C6-C44 Total	ug/l	110	65	110		220		3200	240
VOCs	1,1-Dichloroethane	ug/l		6 2				1.4		
VOCs	1,2-Dichloroethane	ug/l		2 8	0.70	3 0		2.2		1.0
VOCs	1,1-Dichloroethene	ug/l		75				1 6		
VOCs	cis-1,2-Dichloroethene	ug/l		18	4.1			43		6.9
VOCs	trans-1,2-Dichloroethene	ug/l						2.0		
VOCs	Methyl Tert-butyl ether (MTBE)	ug/l		1 1		1 9		7 3	22	
VOCs	Tetrachloroethene	ug/l		2 2						
VOCs	Trichloroethene	ug/l		52	8 1	3.3		130		2 9
VOCs	Vinyl Chloride	ug/l		0.72				2 4	1.7	

Notes:
*Metals not included.
ug/l = micrograms per liter
PAHs = polynuclear aromatic hydrocarbons
TPH = Total Petroleum Hydrocarbons
VOCs = volatile organic compounds

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Table 3
Analytes Detected in Groundwater*

		Boring ID:	SB30	SB31	SB33	SB34	SB36	SB38	QCEB
		Sample ID:	SB30-GW-122010	SB31-GW-122110	SB33-GW-121910	SB34-GW-121910	SB36-GW-121910	SB38-GW-122110	QCEB-121910
ANALYSIS	ANALYTE	UNITS							
PAHs	Fluoranthene	ug/l							
PAHs	Naphthalene	ug/l							0.81
TPH	C25-C28	ug/l							
TPH	C29-C32	ug/l							
TPH	C33-C36	ug/l							
TPH	C37-C40	ug/l							
TPH	C41-C44	ug/l							
TPH	C6-C44 Total	ug/l	110					110	
VOCs	1,1-Dichloroethane	ug/l			2.1	1.8			
VOCs	1,2-Dichloroethane	ug/l			1.7	0.74	1.2		
VOCs	1,1-Dichloroethene	ug/l			17	20			
VOCs	cis-1,2-Dichloroethene	ug/l	12	30	9.3	8.1	13	38	
VOCs	trans-1,2-Dichloroethene	ug/l		2.1				2.7	
VOCs	Methyl Tert-butyl ether (MTBE)	ug/l	96	1.5				1.4	
VOCs	Tetrachloroethene	ug/l							
VOCs	Trichloroethene	ug/l	11	36	13	12	21	36	
VOCs	Vinyl Chloride	ug/l		0.68		0.62	0.51	1.8	

Notes:
*Metals not included
ug/l = micrograms per liter
PAHs = polynuclear aromatic hydrocarbons
TPH = Total Petroleum Hydrocarbons
VOCs = volatile organic compounds

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SDG&E Tidelands Area
San Diego, California

Table 4
Analytes Detected in Cooling Water Tunnel Sediment

May 20, 2011
Revised May 24, 2011
Project No. 106942001

		Boring ID:	DT01	DT02A	DT02B	IT01	IT02
		Sample ID:	DT-01-122910	DT-02A-122910	DT-02B-122910	IT-01-122910	IT-02-122910
ANALYSIS	ANALYTE	UNITS					
PCBs/PCTs	Aroclor 1254	ug/kg		**640**	**550**	**190**	**230**
PCBs/PCTs	Aroclor 1260	ug/kg		660	500	170	220
PCBs/PCTs	Aroclor 5460	ug/kg		310	490	170	260
PAHs	Acenaphthene	mg/kg					
PAHs	Acenaphthylene	mg/kg			0.11	0.043	0.10
PAHs	Anthracene	mg/kg		0.19	0.16	0.087	0.16
PAHs	Benzo(a)anthracene	mg/kg		0.089	0.28	0.045	0.17
PAHs	Benzo(a)pyrene	mg/kg		0.15	0.52	0.17	0.38
PAHs	Benzo(b)fluoranthene	mg/kg		0.19	0.65	0.28	0.51
PAHs	Benzo(g,h,i)perylene	mg/kg		0.11	0.29	0.071	0.21
PAHs	Benzo(k)fluoranthene	mg/kg		0.11	0.45	0.13	0.23
PAHs	Chrysene	mg/kg		0.17	0.46	0.095	0.43
PAHs	Dibenzo(a,h)anthracene	mg/kg			0.090		0.064
PAHs	Fluoranthene	mg/kg		0.14	0.33	0.098	0.19
PAHs	Fluorene	mg/kg					
PAHs	Indeno(1,2,3-c,d)pyrene	mg/kg		0.080	0.27	0.057	0.19
PAHs	1-Methylnaphthalene	mg/kg					
PAHs	2-Methylnaphthalene	mg/kg					0.079
PAHs	Naphthalene	mg/kg					
PAHs	Phenanthrene	mg/kg		0.16	0.14	0.086	0.14
PAHs	Pyrene	mg/kg		0.31	0.43	0.15	0.27
TPH	C11-C12	mg/kg					
TPH	C13-C14	mg/kg		530			
TPH	C15-C16	mg/kg		2300		37	
TPH	C17-C18	mg/kg		3500	32	90	26
TPH	C19-C20	mg/kg		3500	33	110	25
TPH	C21-C22	mg/kg		2200	26	88	24
TPH	C23-C24	mg/kg		1600	29	66	27
TPH	C25-C28	mg/kg		2200	43	72	42
TPH	C29-C32	mg/kg		2700	86	160	67
TPH	C33-C36	mg/kg		2000	78	120	42
TPH	C37-C40	mg/kg		1400	70	110	41
TPH	C41-C44	mg/kg		550	56	85	28
TPH	C6-C44 Total	mg/kg		23000	470	940	330
VOCs	Benzene	ug/kg	15				
VOCs	Carbon disulfide	ug/kg					
VOCs	Chlorobenzene	ug/kg					
VOCs	1,2-Dichlorobenzene	ug/kg					
VOCs	1,4-Dichlorobenzene	ug/kg					
VOCs	1,1-Dichloroethane	ug/kg					
VOCs	1,2-Dichloroethane	ug/kg					
VOCs	1,1-Dichloroethene	ug/kg					
VOCs	cis-1,2-Dichloroethene	ug/kg					
VOCs	trans-1,2-Dichloroethene	ug/kg					
VOCs	Ethylbenzene	ug/kg					
VOCs	Freon 11 (Trichlorofluoromethane)	ug/kg					
VOCs	Methyl Tert-butyl ether (MTBE)	ug/kg					
VOCs	Toluene	ug/kg					
VOCs	Trichloroethene	ug/kg					
VOCs	Vinyl Chloride	ug/kg					

Notes:
*Detected metals not included.
bgs = below ground surface
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
PAHs = polynuclear aromatic hydrocarbons
PCBs/PCTs = polychlorinated biphenyls/triphenyls
VOCs = volatile organic compounds

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB01	SB01	SB01	SB02	SB02	SB02
Sample Depth Interval (ft bgs)	2.0-4.0	12.5-13.0	33.0-35.0	1.0-3.0	14.0-16.0	34.0-36.0
Sample ID	SB01-2.0-4.0	SB01-12.5-13.0	SB01-33.0-35.0	SB02-1.0-3.0	SB02-14.0-16.0	SB02-34.0-36.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<5.3	<6.8	<6.0	<5.7	<6.6	<6.0
C07	<5.3	<6.8	<6.0	<5.7	<6.6	<6.0
C08	<5.3	<6.8	<6.0	<5.7	<6.6	<6.0
C09-C10	<5.3	<6.8	<6.0	<5.7	<6.6	<6.0
C11-C12	<5.3	<6.8	<6.0	**6.8**	<6.6	<6.0
C13-C14	<5.3	<6.8	<6.0	**10**	<6.6	<6.0
C15-C16	<5.3	<6.8	<6.0	**16**	<6.6	<6.0
C17-C18	<5.3	<6.8	<6.0	**21**	<6.6	<6.0
C19-C20	<5.3	<6.8	<6.0	**23**	<6.6	<6.0
C21-C22	<5.3	<6.8	<6.0	**22**	<6.6	<6.0
C23-C24	<5.3	<6.8	<6.0	**17**	<6.6	<6.0
C25-C28	<5.3	<6.8	<6.0	**33**	<6.6	<6.0
C29-C32	**11**	<6.8	<6.0	**66**	<6.6	<6.0
C33-C36	**7.9**	<6.8	<6.0	**47**	<6.6	<6.0
C37-C40	**8.9**	<6.8	<6.0	**37**	<6.6	<6.0
C41-C44	**5.7**	<6.8	<6.0	**24**	<6.6	<6.0
C6-C44 Total	**38**	<6.8	<6.0	**320**	<6.6	<6.0

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB03	SB03	SB03	SB03	SB05	SB05
Sample Depth Interval (ft bgs)	1.0-1.5	14.0-16.0	21.0-23.0	34.0-36.0	2.0-4.0	12.0-14.0
Sample ID	SB03-1.0-1.5	SB03-14.0-16.0	SB03-21.0-23.0	SB03-34.0-36.0	SB05-2.0-4.0	SB05-12.0-14.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<47	<7.1	<5.9	<5.9	<5.3	<5.9
C07	<47	<7.1	<5.9	<5.9	<5.3	<5.9
C08	<47	<7.1	<5.9	<5.9	<5.3	<5.9
C09-C10	<47	<7.1	<5.9	<5.9	<5.3	<5.9
C11-C12	<47	<7.1	<5.9	<5.9	<5.3	<5.9
C13-C14	<47	<7.1	<5.9	<5.9	<5.3	<5.9
C15-C16	<47	<7.1	<5.9	<5.9	<5.3	<5.9
C17-C18	97	<7.1	<5.9	<5.9	<5.3	<5.9
C19-C20	**220**	<7.1	<5.9	<5.9	<5.3	<5.9
C21-C22	**280**	<7.1	<5.9	<5.9	<5.3	<5.9
C23-C24	**220**	<7.1	<5.9	<5.9	<5.3	<5.9
C25-C28	**300**	<7.1	<5.9	<5.9	**7.0**	<5.9
C29-C32	**410**	<7.1	<5.9	<5.9	**13**	<5.9
C33-C36	**240**	<7.1	<5.9	<5.9	**7.2**	<5.9
C37-C40	**150**	<7.1	<5.9	<5.9	**6.2**	<5.9
C41-C44	77	<7.1	<5.9	<5.9	<5.3	<5.9
C6-C44 Total	**2100**	<7.1	<5.9	<5.9	**48**	<5.9

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any, reported below the RL as ND

PORT098043

SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB05	SB05	SB08	SB08	SB08	SB09
Sample Depth Interval (ft bgs)	25.0-27.0	36.0-38.0	3.0-5.0	14.0-16.0	17.0-19.0	1.0-5.0
Sample ID	SB05-25.0-27.0	SB05-36.0-38.0	SB08-3.0-5.0	SB08-14.0-16.0	SB08-17.0-19.0	SB09-1.0-5.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C07	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C08	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C09-C10	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C11-C12	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C13-C14	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C15-C16	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C17-C18	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C19-C20	<6.4	<6.1	**5.6**	<6.4	<5.7	<5.3
C21-C22	<6.4	<6.1	**7.2**	<6.4	<5.7	<5.3
C23-C24	<6.4	<6.1	**5.8**	<6.4	<5.7	<5.3
C25-C28	<6.4	<6.1	**13**	<6.4	<5.7	<5.3
C29-C32	<6.4	<6.1	**28**	<6.4	<5.7	<5.3
C33-C36	<6.4	<6.1	**17**	<6.4	<5.7	<5.3
C37-C40	<6.4	<6.1	**8.2**	<6.4	<5.7	<5.3
C41-C44	<6.4	<6.1	<5.5	<6.4	<5.7	<5.3
C6-C44 Total	<6.4	<6.1	**92**	<6.4	<5.7	<5.3

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098044

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Boring ID	SB09	SB09	SB09	SB09	SB10	SB10
Sample Depth Interval (ft bgs)	13.0-16.0	18.5-20.0	21.0-22.0	32.0-33.5	4.0-5.0	7.5-9.0
Sample ID	SB09-13.0-16.0	SB09-18.5-20.0	SB09-21.0-22.0	SB09-32.0-33.5	SB10-4.0-5.0	SB10-7.5-9.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/19/10	12/19/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C07	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C08	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C09-C10	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C11-C12	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C13-C14	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C15-C16	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C17-C18	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C19-C20	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C21-C22	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C23-C24	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C25-C28	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C29-C32	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C33-C36	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C37-C40	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C41-C44	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7
C6-C44 Total	<6.2	<6.2	<6.2	<5.9	<5.5	<5.7

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098045

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB10	SB10	SB10	SB11	SB11	SB11
Sample Depth Interval (ft bgs)	20.0-22.0	24.0-25.5	32.0-33.0	5.0-7.0	9.5-10.1	18.0-20.0
Sample ID	SB10-20.0-22.0	SB10-24.0-25.5	SB10-32.0-33.0	SB11-5.0-7.0	SB11-9.5-10.0	SB11-18.0-20.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.3	<6.2	<6.0	<5.4	<5.7	<6.4
C07	<6.3	<6.2	<6.0	<5.4	<5.7	<6.4
C08	<6.3	<6.2	<6.0	<5.4	<5.7	<6.4
C09-C10	<6.3	<6.2	<6.0	<5.4	<5.7	<6.4
C11-C12	<6.3	<6.2	<6.0	<5.4	<5.7	<6.4
C13-C14	<6.3	<6.2	<6.0	<5.4	<5.7	<6.4
C15-C16	<6.3	<6.2	<6.0	<5.4	<5.7	<6.4
C17-C18	<6.3	<6.2	<6.0	<5.4	<5.7	<6.4
C19-C20	<6.3	**7.1**	<6.0	<5.4	<5.7	<6.4
C21-C22	<6.3	**18**	<6.0	<5.4	<5.7	<6.4
C23-C24	<6.3	**61**	<6.0	<5.4	<5.7	<6.4
C25-C28	<6.3	**120**	<6.0	**5.9**	**9.8**	<6.4
C29-C32	<6.3	**94**	<6.0	**25**	**64**	<6.4
C33-C36	<6.3	**62**	<6.0	**20**	**58**	<6.4
C37-C40	<6.3	**40**	<6.0	**16**	**52**	<6.4
C41-C44	<6.3	**29**	<6.0	**15**	**44**	<6.4
C6-C44 Total	<6.3	**430**	<6.0	**84**	**230**	<6.4

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098046

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB13	SB13	SB13	SB14	SB14	SB14
Sample Depth Interval (ft bgs)	1.0-3.5	14.0-16.0	19.0-23.0	3.0-5.0	12.5-14.0	15.0-16.5
Sample ID	SB13-1.0-3.5	SB13-14.0-16.0	SB13-19.0-23.0	SB14-3.0-5.0	SB14-12.5-14.0	SB14-15.0-16.5
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<11	<6.3	<5.8	<5.4	<6.5	<6.4
C07	<11	<6.3	<5.8	<5.4	<6.5	<6.4
C08	<11	<6.3	<5.8	<5.4	<6.5	<6.4
C09-C10	<11	<6.3	<5.8	<5.4	<6.5	<6.4
C11-C12	<11	<6.3	<5.8	<5.4	<6.5	<6.4
C13-C14	<11	<6.3	<5.8	<5.4	<6.5	<6.4
C15-C16	<11	<6.3	<5.8	<5.4	<6.5	<6.4
C17-C18	<11	<6.3	<5.8	<5.4	<6.5	<6.4
C19-C20	<11	<6.3	<5.8	<5.4	**7.3**	<6.4
C21-C22	<11	<6.3	<5.8	<5.4	**8.7**	<6.4
C23-C24	**18**	<6.3	<5.8	<5.4	**8.2**	<6.4
C25-C28	**31**	**7.4**	<5.8	<5.4	**12**	**6.8**
C29-C32	**66**	**11**	<5.8	<5.4	**19**	**11**
C33-C36	**56**	<6.3	<5.8	<5.4	**10**	<6.4
C37-C40	**47**	<6.3	<5.8	<5.4	**7.5**	<6.4
C41-C44	**32**	<6.3	<5.8	<5.4	<6.5	<6.4
C6-C44 Total	**270**	**36**	<5.8	<5.4	**87**	**42**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.
The sample extract was subject to Silica Gel
Cleanup prior to extract.
The total concentration includes individual
carbon range concentrations (estimated),
if any , reported below the RL as ND

PORT098047

Boring ID	SB14	SB15	SB15	SB15	SB16	SB16
Sample Depth Interval (ft bgs)	16.5-17.5	3.0-5.0	12.0-14.0	16.0-18.0	4.0-6.0	16.0-18.0
Sample ID	SB14-16.5-17.5	SB15-3.0-5.0	SB15-12.0-14.0	SB15-16.0-18.0	SB16-4.0-6.0	SB16-16.0-18.0
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C07	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C08	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C09-C10	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C11-C12	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C13-C14	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C15-C16	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C17-C18	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C19-C20	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C21-C22	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C23-C24	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C25-C28	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C29-C32	**9.2**	<5.1	<6.3	<5.9	<5.6	<6.0
C33-C36	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C37-C40	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C41-C44	<6.5	<5.1	<6.3	<5.9	<5.6	<6.0
C6-C44 Total	**38**	<5.1	<6.3	<5.9	<5.6	<6.0

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098048

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Table 5
Summary of Soil Sample Analytical Results
TPH

Boring ID	SB18	SB18	SB18	SB18	SB18	SB18
Sample Depth Interval (ft bgs)	1.0-3.0	3.0-5.0	8.0-9.0	12.0-13.5	22.0-24.0	27.5-29.0
Sample ID	SB18-1.0-3.0	SB18-3.0-5.0	SB18-8.0-9.0	SB18-12.0-13.5	SB18-22.0-24.0	SB18-27.5-29.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<56	<230	<28	<23	<5.7	<6.2
C07	<56	<230	<28	<23	<5.7	<6.2
C08	<56	<230	<28	<23	<5.7	<6.2
C09-C10	<56	<230	<28	<23	<5.7	<6.2
C11-C12	<56	<230	<28	<23	<5.7	<6.2
C13-C14	**120**	<230	<28	<23	<5.7	<6.2
C15-C16	**120**	**330**	<28	**34**	<5.7	<6.2
C17-C18	**140**	**530**	**39**	**51**	<5.7	<6.2
C19-C20	**170**	**790**	**62**	**80**	<5.7	<6.2
C21-C22	**230**	**830**	**72**	**80**	<5.7	<6.2
C23-C24	**390**	**1400**	**120**	**130**	<5.7	<6.2
C25-C28	**670**	**2100**	**200**	**210**	<5.7	<6.2
C29-C32	**1000**	**2800**	**290**	**310**	<5.7	<6.2
C33-C36	**680**	**2100**	**240**	**220**	<5.7	<6.2
C37-C40	**540**	**1500**	**190**	**190**	<5.7	<6.2
C41-C44	**340**	**1000**	**160**	**150**	<5.7	<6.2
C6-C44 Total	**4400**	**14000**	**1400**	**1500**	<5.7	<6.2

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
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Boring ID	SB19	SB19	SB19	SB21	SB21	SB21
Sample Depth Interval (ft bgs)	15.5-16.0	18.0-20.0	22.0-25.0	3.0-5.0	13.0-14.5	20.5-22.0
Sample ID	SB19-15.5-16.0	SB19-18.0-20.0	SB19-22.0-25.0	SB21-3.0-5.0	SB21-13.0-14.5	SB21-20.5-22.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C07	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C08	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C09-C10	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C11-C12	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C13-C14	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C15-C16	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C17-C18	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C19-C20	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C21-C22	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C23-C24	<6.0	<6.2	<6.2	<11	<6.2	<6.1
C25-C28	<6.0	<6.2	<6.2	**19**	<6.2	<6.1
C29-C32	<6.0	<6.2	<6.2	**50**	<6.2	<6.1
C33-C36	<6.0	<6.2	<6.2	**49**	<6.2	<6.1
C37-C40	<6.0	<6.2	<6.2	**50**	<6.2	<6.1
C41-C44	<6.0	<6.2	<6.2	**41**	<6.2	<6.1
C6-C44 Total	17	<6.2	<6.2	**230**	<6.2	<6.1

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB21	SB22	SB22	SB22	SB22	SB26
Sample Depth Interval (ft bgs)	28.0-30.0	4.0-6.0	9.5-10.5	16.0-18.0	21.0-23.0	2.0-4.0
Sample ID	SB21-28.0-30.0	SB22-4.0-6.0	SB22-9.5-10.5	SB22-16.0-18.0	SB22-21.0-23.0	SB26-2.5-4.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/19/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C07	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C08	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C09-C10	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C11-C12	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C13-C14	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C15-C16	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C17-C18	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C19-C20	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C21-C22	<5.8	<5.5	<6.2	<6.0	<6.0	<5.3
C23-C24	<5.8	<5.5	<6.2	**17**	<6.0	<5.3
C25-C28	<5.8	<5.5	<6.2	**21**	<6.0	<5.3
C29-C32	<5.8	**14**	<6.2	**28**	<6.0	<5.3
C33-C36	<5.8	**15**	<6.2	**14**	<6.0	<5.3
C37-C40	<5.8	**21**	<6.2	**10**	<6.0	<5.3
C41-C44	<5.8	**21**	<6.2	**6.5**	<6.0	<5.3
C6-C44 Total	<5.8	**74**	<6.2	**97**	<6.0	20

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098051

Boring ID	SB26	SB26	SB26	SB28	SB28	SB28
Sample Depth Interval (ft bgs)	8.0-10.0	14.0-16.0	24.0-26.0	3.0-5.0	15.5-17.0	19.5-21.5
Sample ID	SB26-8.0-10.0	SB26-14.0-16.0	SB26-24.0-26.0	SB28-3.0-5.0	SB28-15.5-17.0	SB28-19.5-21.5
Sample Date	12/19/10	12/19/10	12/19/10	12/20/10	12/20/10	12/20/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C07	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C08	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C09-C10	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C11-C12	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C13-C14	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C15-C16	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C17-C18	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C19-C20	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C21-C22	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C23-C24	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C25-C28	<6.0	<6.3	<5.8	<5.3	<6.0	<6.3
C29-C32	<6.0	<6.3	<5.8	**8.6**	<6.0	<6.3
C33-C36	<6.0	<6.3	<5.8	**8.8**	<6.0	<6.3
C37-C40	<6.0	<6.3	<5.8	**12**	<6.0	<6.3
C41-C44	<6.0	<6.3	<5.8	**13**	<6.0	<6.3
C6-C44 Total	<6:0	<6.3	<5.8	**42**	<6.0	15

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098052

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB28	SB29	SB29	SB29	SB29	SB29
Sample Depth Interval (ft bgs)	23.0-25.0	1.0-3.0	3.0-5.0	13.0-15.5	16.5-17.0	21.0-24.0
Sample ID	SB28-23.0-25.0	SB29-1.0-3.0	SB29-3.0-5.0	SB29-13.0-15.5	SB29-16.5-17.0	SB29-21.0-24.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<5.9	<170	<5.4	<6.4	<5.7	<5.9
C07	<5.9	<170	<5.4	<6.4	<5.7	<5.9
C08	<5.9	<170	<5.4	<6.4	<5.7	<5.9
C09-C10	<5.9	<170	<5.4	<6.4	<5.7	<5.9
C11-C12	<5.9	<170	<5.4	<6.4	<5.7	<5.9
C13-C14	<5.9	<170	<5.4	<6.4	<5.7	<5.9
C15-C16	<5.9	<170	<5.4	<6.4	<5.7	<5.9
C17-C18	<5.9	<170	<5.4	<6.4	<5.7	<5.9
C19-C20	<5.9	<170	<5.4	<6.4	**14**	<5.9
C21-C22	<5.9	**240**	<5.4	<6.4	**19**	<5.9
C23-C24	<5.9	**400**	<5.4	<6.4	**36**	<5.9
C25-C28	<5.9	**900**	<5.4	**6.6**	**59**	<5.9
C29-C32	<5.9	**1300**	**8.6**	**12**	**99**	<5.9
C33-C36	<5.9	**900**	**6.1**	**6.6**	**70**	<5.9
C37-C40	<5.9	**760**	<5.4	<6.4	**53**	<5.9
C41-C44	<5.9	**470**	<5.4	<6.4	**32**	<5.9
C6-C44 Total	<5.9	**5100**	**31**	**45**	**390**	<5.9

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098053

Boring ID	SB29	SB30	SB30	SB30	SB30	SB31
Sample Depth Interval (ft bgs)	25.0-26.5	3.0-5.0	13.0-15.0	18.0-20.0	26.0-28.0	3.0-5.0
Sample ID	SB29-25.0-26.5	SB30-3.0-5.0	SB30-13.0-15.0	SB30-18.0-20.0	SB30-26.0-28.0	SB31-3.0-5.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/21/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C07	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C08	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C09-C10	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C11-C12	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C13-C14	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C15-C16	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C17-C18	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C19-C20	<5.7	<5.3	<5.4	<5.9	<6.2	<5.4
C21-C22	<5.7	<5.3	**5.7**	<5.9	<6.2	<5.4
C23-C24	<5.7	<5.3	**7.8**	<5.9	<6.2	<5.4
C25-C28	<5.7	<5.3	**16**	<5.9	<6.2	<5.4
C29-C32	<5.7	<5.3	**28**	<5.9	<6.2	**9.4**
C33-C36	<5.7	<5.3	**26**	<5.9	<6.2	**8.8**
C37-C40	<5.7	<5.3	**26**	<5.9	<6.2	**8.8**
C41-C44	<5.7	<5.3	**15**	<5.9	<6.2	**6.4**
C6-C44 Total	<5.7	<5.3	**130**	<5.9	<6.2	**37**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.
The sample extract was subject to Silica Gel
Cleanup prior to extract.
The total concentration includes individual
carbon range concentrations (estimated),
if any , reported below the RL as ND

PORT098054

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Table 5
Summary of Soil Sample Analytical Results
TPH

Boring ID	SB31	SB31	SB31	SB32	SB32	SB32
Sample Depth Interval (ft bgs)	24.5-25.5	26.0-30.0	30.0-34.0	4.0-5.0	12.0-15.0	15.0-16.0
Sample ID	SB31-24.5-25.5	SB31-26.0-30.0	SB31-30.0-34.0	SB32-4.0-5.0	SB32-12.0-15.0	SB32-15.0-16.0
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.1	<6.1	<6.4	<5.5	<12	<12
C07	<6.1	<6.1	<6.4	<5.5	<12	<12
C08	<6.1	<6.1	<6.4	<5.5	<12	<12
C09-C10	<6.1	<6.1	<6.4	<5.5	<12	<12
C11-C12	<6.1	<6.1	<6.4	<5.5	**17**	<12
C13-C14	<6.1	<6.1	<6.4	<5.5	**48**	<12
C15-C16	<6.1	<6.1	<6.4	<5.5	**63**	<12
C17-C18	<6.1	<6.1	<6.4	<5.5	**110**	<12
C19-C20	<6.1	<6.1	<6.4	<5.5	**170**	<12
C21-C22	<6.1	<6.1	<6.4	<5.5	**160**	<12
C23-C24	<6.1	<6.1	<6.4	<5.5	**99**	<12
C25-C28	<6.1	<6.1	<6.4	<5.5	**130**	**17**
C29-C32	**14**	<6.1	<6.4	<5.5	**140**	**41**
C33-C36	**12**	<6.1	<6.4	<5.5	**79**	**31**
C37-C40	**12**	<6.1	<6.4	<5.5	**52**	**24**
C41-C44	**10**	<6.1	<6.4	<5.5	**26**	**15**
C6-C44 Total	**56**	<6.1	<6.4	<5.5	**1100**	**140**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.
The sample extract was subject to Silica Gel
Cleanup prior to extract.
The total concentration includes individual
carbon range concentrations (estimated),
if any , reported below the RL as ND

PORT098055

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Boring ID	SB32	SB33	SB33	SB33	SB33	SB34
Sample Depth Interval (ft bgs)	28.0-30.0	1.0-3.0	15.5-16.5	25.0-27.0	37.0-39.0	1.0-3.0
Sample ID	SB32-28.0-30.0	SB33-1.0-3.0	SB33-15.5-16.5	SB33-25.0-27.0	SB33-37.0-39.0	SB34-1.0-3.0
Sample Date	12/21/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.1	<5.6	<6.2	<6.2	<5.7	<5.3
C07	<6.1	<5.6	<6.2	<6.2	<5.7	<5.3
C08	<6.1	<5.6	<6.2	<6.2	<5.7	<5.3
C09-C10	<6.1	<5.6	<6.2	<6.2	<5.7	<5.3
C11-C12	<6.1	<5.6	<6.2	<6.2	<5.7	<5.3
C13-C14	<6.1	<5.6	<6.2	<6.2	<5.7	<5.3
C15-C16	<6.1	<5.6	<6.2	<6.2	<5.7	<5.3
C17-C18	<6.1	<5.6	<6.2	<6.2	<5.7	**19**
C19-C20	<6.1	<5.6	<6.2	<6.2	<5.7	**20**
C21-C22	<6.1	<5.6	<6.2	<6.2	<5.7	**26**
C23-C24	<6.1	<5.6	<6.2	<6.2	<5.7	**24**
C25-C28	<6.1	<5.6	<6.2	<6.2	<5.7	**38**
C29-C32	<6.1	<5.6	<6.2	<6.2	<5.7	**68**
C33-C36	<6.1	<5.6	<6.2	<6.2	<5.7	**70**
C37-C40	<6.1	<5.6	<6.2	<6.2	<5.7	**38**
C41-C44	<6.1	<5.6	<6.2	<6.2	<5.7	**32**
C6-C44 Total	<6.1	<5.6	<6.2	<6.2	<5.7	**340**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098056

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB34	SB34	SB35	SB35	SB35	SB36
Sample Depth Interval (ft bgs)	14.0-16.0	24.0-26.0	1.0-3.0	7.0-8.5	14.0-18.0	1.0-4.0
Sample ID	SB34-14.0-16.0	SB34-24.0-26.0	SB35-1.0-3.0	SB35-7.0-8.5	SB35-14.0-18.0	SB36-1.0-4.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<6.3	<5.9	<5.3	<5.5	<6.2	<5.4
C07	<6.3	<5.9	<5.3	<5.5	<6.2	<5.4
C08	<6.3	<5.9	<5.3	<5.5	<6.2	<5.4
C09-C10	<6.3	<5.9	<5.3	<5.5	<6.2	<5.4
C11-C12	<6.3	<5.9	<5.3	<5.5	<6.2	<5.4
C13-C14	<6.3	<5.9	<5.3	<5.5	<6.2	<5.4
C15-C16	<6.3	<5.9	<5.3	<5.5	<6.2	**8.1**
C17-C18	<6.3	<5.9	**6.7**	<5.5	<6.2	**21**
C19-C20	<6.3	<5.9	**6.8**	<5.5	<6.2	**28**
C21-C22	<6.3	<5.9	**7.8**	<5.5	<6.2	**32**
C23-C24	<6.3	<5.9	**6.9**	<5.5	<6.2	**22**
C25-C28	<6.3	<5.9	**12**	<5.5	<6.2	**38**
C29-C32	<6.3	<5.9	**25**	**11**	<6.2	**78**
C33-C36	<6.3	<5.9	**21**	**10**	<6.2	**74**
C37-C40	<6.3	<5.9	**21**	**9.3**	<6.2	**90**
C41-C44	<6.3	<5.9	**11**	**8.1**	<6.2	**75**
C6-C44 Total	<6.3	<5.9	**120**	**42**	<6.2	**470**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

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SDG&E Tidelands Area
San Diego, California

Table 5
Summary of Soil Sample Analytical Results
TPH

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB36	SB36	SB36	SB37	SB37	SB37
Sample Depth Interval (ft bgs)	7.0-9.0	24.0-25.0	35.0-36.5	1.0-3.0	10.0-12.0	13.0-15.0
Sample ID	SB36-7.0-9.0	SB36-24.0-25.0	SB36-35.0-36.5	SB37-1.0-3.0	SB37-10.0-12.0	SB37-13.0-15.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C07	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C08	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C09-C10	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C11-C12	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C13-C14	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C15-C16	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C17-C18	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C19-C20	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C21-C22	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C23-C24	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C25-C28	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C29-C32	<5.6	<5.9	<5.8	**7.8**	**8.3**	<6.5
C33-C36	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C37-C40	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C41-C44	<5.6	<5.9	<5.8	<5.3	<6.3	<6.5
C6-C44 Total	<5.6	<5.9	<5.8	**24**	**22**	<6.5

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098058

Table 5
Summary of Soil Sample Analytical Results
TPH

Boring ID	SB38	SB38	SB38	SB40	SB40	SB40
Sample Depth Interval (ft bgs)	1.0-3.0	10.0-12.0	30.0-32.0	2.0-3.0	5.0-6.5	10.0-11.5
Sample ID	SB38-1.0-3.0	SB38-10.0-12.0	SB38-30.0-32.0	SB40-2.0-3.0	SB40-5.0-6.5	SB40-10.0-11.5
Sample Date	12/21/10	12/21/10	12/21/10	12/20/10	12/20/10	12/20/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<12	<6.1	<5.9	<11	<5.6	<6.1
C07	<12	<6.1	<5.9	<11	<5.6	<6.1
C08	<12	<6.1	<5.9	<11	<5.6	<6.1
C09-C10	<12	<6.1	<5.9	<11	<5.6	<6.1
C11-C12	<12	<6.1	<5.9	<11	<5.6	<6.1
C13-C14	**27**	<6.1	<5.9	<11	<5.6	<6.1
C15-C16	**33**	<6.1	<5.9	<11	<5.6	<6.1
C17-C18	**60**	<6.1	<5.9	<11	<5.6	<6.1
C19-C20	**100**	<6.1	<5.9	**19**	<5.6	<6.1
C21-C22	**110**	<6.1	<5.9	**35**	<5.6	<6.1
C23-C24	**90**	<6.1	<5.9	**70**	<5.6	<6.1
C25-C28	**88**	<6.1	<5.9	**160**	<5.6	<6.1
C29-C32	**150**	<6.1	<5.9	**260**	<5.6	<6.1
C33-C36	**99**	<6.1	<5.9	**160**	<5.6	<6.1
C37-C40	**78**	<6.1	<5.9	**110**	<5.6	<6.1
C41-C44	**38**	<6.1	<5.9	**64**	<5.6	<6.1
C6-C44 Total	**880**	<6.1	<5.9	**890**	**11**	<6.1

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected at or above the indicated detection limit.
The sample extract was subject to Silica Gel Cleanup prior to extract.
The total concentration includes individual carbon range concentrations (estimated), if any , reported below the RL as ND

PORT098059

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Table 6
Summary of Soil Sample Analytical Results
VOCs

Boring ID	SB01	SB01	SB02	SB02	SB02	SB03	SB03	SB03
Sample Depth Interval (ft bgs)	2.0-2.5	34.5-35.0	1.5-2.0	14.0-14.5	34.0-34.5	1.0-1.5	14.0-14.5	21.0-21.5
Sample ID	SB01-2.0-2.5	SB01-34.5-35.0	SB02-1.5-2.0	SB02-14.0-14.5	SB02-34.0-34.5	SB03-1.0-1.5	SB03-14.0-14.5	SB03-21.0-21.5
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<50	<47	<42	<48	<39	<52	<51	<47
Benzene	<0 99	<0.94	**1.7**	<0.96	<0.78	**3.5**	<1.0	<0.94
Bromobenzene	<0.99	<0.94	<0.84	<0.96	<0.78	<1.0	<1.0	<0.94
Bromochloromethane	<2.0	<1.9	<1.7	<1.9	<1.6	<2.1	<2.0	<1.9
Bromoform	<5.0	<4.7	<4 2	<4.8	<3.9	<5 2	<5 1	<4 7
Bromomethane	<20	<19	<17	<19	<16	<21	<20	<19
n-Butylbenzene	<0.99	<0 94	<0 84	<0.96	<0.78	<1.0	<1.0	<0 94
sec-Butylbenzene	<0.99	<0.94	<0 84	<0 96	<0 78	<1 0	<1.0	<0 94
Carbon disulfide	<9.9	<9.4	<8 4	<9.6	<7 8	<10	<10	<9 4
Carbon Tetrachloride	<0.99	<0.94	<0 84	<0 96	<0 78	<1 0	<1.0	<0.94
Chlorobenzene	<0 99	<0.94	<0 84	<0 96	<0 78	<1 0	<1.0	<0.94
Chloroethane	<2.0	<1 9	<1 7	<1.9	<1 6	<2 1	<2.0	<1.9
Chloroform	<0.99	<0 94	<0 84	<0 96	<0.78	<1.0	<1.0	<0.94
Chloromethane	<20	<19	<17	<19	<16	<21	<20	<19
2-Chlorotoluene	<0 99	<0.94	<0 84	<0 96	<0.78	<1.0	<1 0	<0 94
4-Chlorotoluene	<0 99	<0.94	<0 84	<0 96	<0.78	<1.0	<1 0	<0 94
1,2-Dibromo-3-chloropropane	<5 0	<4 7	<4 2	<4.8	<3.9	<5.2	<5.1	<4.7
Dibromochloromethane	<2.0	<1 9	<1.7	<1.9	<1.6	<2.1	<2 0	<1 9
1,2-Dibromoethane (EDB)	<0.99	<0.94	<0.84	<0 96	<0.78	<1.0	<1.0	<0.94
Dibromomethane	<0.99	<0.94	<0.84	<0.96	<0.78	<1.0	<1.0	<0.94
1,2-Dichlorobenzene	<0 99	<0.94	<0 84	<0.96	<0.78	<1.0	<1 0	<0 94
1,3-Dichlorobenzene	<0 99	<0.94	<0 84	<0 96	<0.78	<1.0	<1 0	<0.94
1,4-Dichlorobenzene	<0.99	<0 94	<0 84	<0.96	<0.78	<1.0	<1.0	<0.94
Dichlorobromomethane	<0.99	<0 94	<0 84	<0.96	<0.78	<1.0	<1.0	<0.94
1,1-Dichloroethane	<0.99	<0 94	<0 84	<0.96	<0 78	<1.0	<1.0	**1.2**
1,2-Dichloroethane	<0.99	<0 94	<0 84	<0 96	<0 78	<1.0	<1.0	<0 94
1,1-Dichloroethene	<0.99	<0.94	<0.84	<0.96	**1.9**	<1.0	<1.0	**10**
cis-1,2-Dichloroethene	<0.99	**1.6**	<0 84	<0.96	**1.8**	<1.0	<1.0	**1.6**
trans-1,2-Dichloroethene	<0.99	<0.94	<0 84	<0.96	<0 78	<1.0	<1.0	<0.94
1,2-Dichloropropane	<0.99	<0.94	<0 84	<0 96	<0 78	<1 0	<1.0	<0.94
1,3-Dichloropropane	<0 99	<0 94	<0 84	<0 96	<0 78	<1 0	<1 0	<0 94
2,2-Dichloropropane	<5.0	<4.7	<4 2	<4.8	<3.9	<5 2	<5 1	<4 7
1,1-Dichloropropene	<2.0	<1.9	<1 7	<1.9	<1 6	<2.1	<2.0	<1.9
cis-1,3-Dichloropropene	<0.99	<0.94	<0 84	<0.96	<0.78	<1.0	<1 0	<0 94
trans-1,3-Dichloropropene	<2.0	<1 9	<1 7	<1.9	<1 6	<2 1	<2 0	<1 9
Ethylbenzene	<0 99	<0.94	<0 84	<0 96	<0 78	<1 0	<1 0	<0 94
Freon 11 (Trichlorofluoromethane)	<9.9	<9.4	<8.4	<9.6	<7.8	<10	<10	<9.4
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroetha	<9.9	<9 4	<8 4	<9.6	<7.8	<10	<10	<9 4
Freon 12 (Dichlorodifluoromethane)	<2.0	<1.9	<1 7	<1 9	<1.6	<2.1	<2.0	<1 9
2-Hexanone	<20	<19	<17	<19	<16	<21	<20	<19
Isopropylbenzene	<0.99	<0.94	<0 84	<0.96	<0.78	<1.0	<1 0	<0 94
p-Isopropyltoluene	<0.99	<0 94	<0 84	<0.96	<0.78	<1.0	<1 0	<0 94
Methyl Ethyl Ketone	<20	<19	<17	<19	<16	<21	<20	<19
Methyl isobutyl ketone (MIBK)	<20	<19	<17	<19	<16	<21	<20	<19
Methyl Tert-butyl ether (MTBE)	<2.0	<1.9	<1 7	<1 9	<1.6	<2.1	<2.0	<1.9
Methylene chloride	<9.9	<9.4	<8 4	<9.6	<7 8	<10	<10	<9 4
Naphthalene	<9.9	<9.4	<8 4	<9 6	<7.8	<10	<10	<9 4
n-Propylbenzene	<2.0	<1.9	<1 7	<1.9	<1.6	<2.1	<2.0	<1.9
Styrene	<0.99	<0.94	<0 84	<0.96	<0.78	<1 0	<1 0	<0.94
tert-Butylbenzene	<0 99	<0.94	<0 84	<0.96	<0 78	<1.0	<1 0	<0 94
1,1,1,2-Tetrachloroethane	<0.99	<0.94	<0 84	<0.96	<0.78	<1.0	<1 0	<0 94
1,1,2,2-Tetrachloroethane	<2.0	<1 9	<1 7	<1.9	<1.6	<2.1	<2 0	<1.9
Tetrachloroethene	<0.99	<0.94	<0.84	<0 96	<0 78	<1.0	<1.0	<0 94
Toluene	<0.99	<0.94	<0 84	<0.96	<0.78	**1.6**	<1 0	<0.94
1,2,3-Trichlorobenzene	<2 0	<1 9	<1 7	<1 9	<1 6	<2.1	<2 0	<1 9
1,2,4-Trichlorobenzene	<2.0	<1 9	<1 7	<1 9	<1.6	<2.1	<2 0	<1.9
1,1,1-Trichloroethane	<0.99	<0 94	<0 84	<0.96	<0.78	<1.0	<1.0	<0.94
1,1,2-Trichloroethane	<0.99	<0 94	<0 84	<0.96	<0.78	<1.0	<1.0	<0.94
Trichloroethene	<2 0	**2.6**	<1.7	<1.9	**5.0**	<2.1	<2.0	**4.7**
1,2,3-Trichloropropane	<2 0	<1.9	<1 7	<1 9	<1.6	<2.1	<2.0	<1 9
1,2,4-Trimethylbenzene	<2 0	<1.9	<1.7	<1 9	<1 6	<2.1	<2.0	<1 9
1,3,5-Trimethylbenzene	<2.0	<1.9	<1.7	<1 9	<1.6	<2 1	<2.0	<1.9
Vinyl Acetate	<9.9	<9.4	<8 4	<9.6	<7.8	<10	<10	<9.4
Vinyl Chloride	<0.99	<0.94	<0.84	<0.96	<0 78	<1.0	<1 0	<0 94
m,p-Xylene	<2 0	<1.9	<1 7	<1 9	<1.6	<2.1	<2 0	<1 9
o-Xylene	<0.99	<0.94	<0 84	<0.96	<0.78	<1.0	<1.0	<0 94

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit

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Table 6
Summary of Soil Sample Analytical Results
VOCs

Boring ID	SB03	SB05	SB05	SB05	SB05	SB08	SB08	SB08
Sample Depth Interval (ft bgs)	34.0-34.5	2.0-2.5	12.0-12.5	25.0-25.5	36.0-36.5	3.0-3.5	15.0-15.5	18.5-19.0
Sample ID	SB03-34.0-34.5	SB05-2.0-2.5	SB05-12.0-12.5	SB05-25.0-25.5	SB05-36.0-36.5	SB08-3.0-3.5	SB08-15.0-15.5	SB08-18.5-19.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<44	<60	<50	<42	<48	<52	<44	<46
Benzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Bromobenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Bromochloromethane	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
Bromoform	<4.4	<6.0	<5.0	<4.2	<4.8	<5.2	<4.4	<4.6
Bromomethane	<17	<24	<20	<17	<19	<21	<18	<19
n-Butylbenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
sec-Butylbenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Carbon disulfide	<8.7	<12	<10	<8.4	<9.5	<10	<8.9	<9.3
Carbon Tetrachloride	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Chlorobenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Chloroethane	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
Chloroform	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Chloromethane	<17	<24	<20	<17	<19	<21	<18	<19
2-Chlorotoluene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
4-Chlorotoluene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,2-Dibromo-3-chloropropane	<4.4	<6.0	<5.0	<4.2	<4.8	<5.2	<4.4	<4.6
Dibromochloromethane	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
1,2-Dibromoethane (EDB)	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Dibromomethane	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,2-Dichlorobenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,3-Dichlorobenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,4-Dichlorobenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Dichlorobromomethane	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,1-Dichloroethane	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,2-Dichloroethane	<0.87	<1.2	<1.0	**0.84**	**1.9**	<1.0	<0.89	<0.93
1,1-Dichloroethene	**9.2**	<1.2	**2.2**	**1.7**	<0.95	<1.0	<0.89	<0.93
cis-1,2-Dichloroethene	**1.7**	<1.2	**1.2**	<0.84	<0.95	<1.0	**1.1**	**1.9**
trans-1,2-Dichloroethene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,2-Dichloropropane	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,3-Dichloropropane	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
2,2-Dichloropropane	<4.4	<6.0	<5.0	<4.2	<4.8	<5.2	<4.4	<4.6
1,1-Dichloropropene	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
cis-1,3-Dichloropropene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
trans-1,3-Dichloropropene	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
Ethylbenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Freon 11 (Trichlorofluoromethane)	<8.7	<12	<10	<8.4	<9.5	<10	<8.9	<9.3
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroetha	<8.7	<12	<10	<8.4	<9.5	<10	<8.9	<9.3
Freon 12 (Dichlorodifluoromethane)	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
2-Hexanone	<17	<24	<20	<17	<19	<21	<18	<19
Isopropylbenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
p-Isopropyltoluene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Methyl Ethyl Ketone	<17	<24	<20	<17	<19	<21	<18	<19
Methyl isobutyl ketone (MIBK)	<17	<24	<20	<17	<19	<21	<18	<19
Methyl Tert-butyl ether (MTBE)	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
Methylene chloride	<8.7	<12	<10	<8.4	<9.5	<10	<8.9	<9.3
Naphthalene	<8.7	<12	<10	<8.4	<9.5	<10	<8.9	<9.3
n-Propylbenzene	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
Styrene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
tert-Butylbenzene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,1,1,2-Tetrachloroethane	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,1,2,2-Tetrachloroethane	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
Tetrachloroethene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Toluene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,2,3-Trichlorobenzene	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
1,2,4-Trichlorobenzene	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
1,1,1-Trichloroethane	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
1,1,2-Trichloroethane	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
Trichloroethene	**5.9**	<2.4	<2.0	**2.5**	**2.2**	<2.1	<1.8	**4.4**
1,2,3-Trichloropropane	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
1,2,4-Trimethylbenzene	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
1,3,5-Trimethylbenzene	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
Vinyl Acetate	<8.7	<12	<10	<8.4	<9.5	<10	<8.9	<9.3
Vinyl Chloride	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93
m,p-Xylene	<1.7	<2.4	<2.0	<1.7	<1.9	<2.1	<1.8	<1.9
o-Xylene	<0.87	<1.2	<1.0	<0.84	<0.95	<1.0	<0.89	<0.93

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit

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Boring ID	SB09	SB09	SB09	SB09	SB09	SB10	SB10	SB10
Sample Depth Interval (ft bgs)	4.0-4.5	13.0-13.5	19.5-20.0	22.0-22.5	34.0-34.5	4.5-5.0	8.5-9.0	20.5-21.0
Sample ID	SB09-4.0-4.5	SB09-13.0-13.5	SB09-19.5-20.0	SB09-22.0-22.5	SB09-33.0-34.0	SB10-4.5-5.0	SB10-8.5-9.0	SB10-20.5-21.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/19/10	12/19/10	12/19/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<56	<39	<40	<41	<42	<47	<54	<42
Benzene	**1.4**	<0.79	<0 80	<0.82	<0 84	<0 93	<1.1	<0 84
Bromobenzene	<1.1	<0.79	<0 80	<0.82	<0.84	<0.93	<1.1	<0.84
Bromochloromethane	<2 2	<1 6	<1.6	<1.6	<1 7	<1.9	<2.1	<1 7
Bromoform	<5 6	<3 9	<4.0	<4.1	<4 2	<4.7	<5.4	<4.2
Bromomethane	<22	<16	<16	<16	<17	<19	<21	<17
n-Butylbenzene	<1.1	<0.79	<0.80	<0 82	<0.84	<0 93	<1.1	<0 84
sec-Butylbenzene	<1.1	<0.79	<0.80	<0.82	<0.84	<0.93	<1.1	<0 84
Carbon disulfide	<11	<7 9	<8.0	<8 2	<8 4	<9 3	<11	<8.4
Carbon Tetrachloride	<1.1	<0.79	<0.80	<0.82	<0.84	<0.93	<1.1	<0 84
Chlorobenzene	<1.1	<0.79	<0 80	<0.82	<0.84	<0 93	<1 1	<0 84
Chloroethane	<2.2	<1 6	<1.6	<1 6	<1 7	<1.9	<2 1	<1 7
Chloroform	<1.1	<0 79	<0 80	<0.82	<0.84	<0 93	<1.1	<0.84
Chloromethane	<22	<16	<16	<16	<17	<19	<21	<17
2-Chlorotoluene	<1.1	<0.79	<0 80	<0.82	<0.84	<0 93	<1 1	<0 84
4-Chlorotoluene	<1.1	<0.79	<0 80	<0.82	<0 84	<0 93	<1 1	<0 84
1,2-Dibromo-3-chloropropane	<5.6	<3 9	<4 0	<4.1	<4.2	<4.7	<5 4	<4 2
Dibromochloromethane	<2.2	<1.6	<1.6	<1 6	<1 7	<1.9	<2.1	<1.7
1,2-Dibromoethane (EDB)	<1.1	<0.79	<0.80	<0.82	<0.84	<0 93	<1 1	<0.84
Dibromomethane	<1.1	<0.79	<0.80	<0.82	<0.84	<0.93	<1 1	<0.84
1,2-Dichlorobenzene	<1.1	<0.79	<0 80	<0.82	<0.84	<0 93	<1.1	<0.84
1,3-Dichlorobenzene	<1.1	<0.79	<0.80	<0.82	<0.84	<0 93	<1 1	<0.84
1,4-Dichlorobenzene	<1.1	<0.79	<0.80	<0.82	<0.84	<0.93	<1.1	<0.84
Dichlorobromomethane	<1.1	<0.79	<0.80	<0 82	<0.84	<0 93	<1 1	<0 84
1,1-Dichloroethane	<1.1	<0 79	<0.80	<0.82	<0 84	<0 93	<1.1	<0.84
1,2-Dichloroethane	<1.1	<0 79	<0.80	<0 82	<0 84	<0.93	<1.1	<0 84
1,1-Dichloroethene	<1.1	<0.79	<0.80	<0 82	<0 84	<0 93	<1.1	<0.84
cis-1,2-Dichloroethene	<1.1	<0 79	<0.80	**3.4**	<0 84	<0.93	<1.1	<0 84
trans-1,2-Dichloroethene	<1.1	<0.79	<0 80	<0.82	<0 84	<0.93	<1.1	<0.84
1,2-Dichloropropane	<1.1	<0.79	<0.80	<0.82	<0 84	<0 93	<1.1	<0.84
1,3-Dichloropropane	<1.1	<0 79	<0 80	<0.82	<0 84	<0 93	<1.1	<0 84
2,2-Dichloropropane	<5.6	<3.9	<4.0	<4.1	<4 2	<4 7	<5 4	<4 2
1,1-Dichloropropene	<2.2	<1.6	<1.6	<1.6	<1.7	<1.9	<2.1	<1 7
cis-1,3-Dichloropropene	<1 1	<0 79	<0 80	<0.82	<0.84	<0.93	<1 1	<0 84
trans-1,3-Dichloropropene	<2 2	<1.6	<1 6	<1.6	<1 7	<1 9	<2.1	<1 7
Ethylbenzene	<1 1	<0 79	<0 80	<0 82	**0.86**	<0.93	<1.1	<0 84
Freon 11 (Trichlorofluoromethane)	<11	<7.9	<8 0	<8.2	<8.4	<9.3	<11	<8 4
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroetha	<11	<7.9	<8.0	<8 2	<8 4	<9 3	<11	<8.4
Freon 12 (Dichlorodifluoromethane)	<2 2	<1.6	<1.6	<1.6	<1.7	<1.9	<2 1	<1.7
2-Hexanone	<22	<16	<16	<16	<17	<19	<21	<17
Isopropylbenzene	<1 1	<0.79	<0.80	<0.82	<0.84	<0.93	<1 1	<0 84
p-Isopropyltoluene	<1.1	<0.79	<0.80	<0.82	<0.84	<0.93	<1.1	<0 84
Methyl Ethyl Ketone	<22	<16	<16	<16	<17	<19	<21	<17
Methyl isobutyl ketone (MIBK)	<22	<16	<16	<16	<17	<19	<21	<17
Methyl Tert-butyl ether (MTBE)	<2.2	<1 6	<1 6	<1.6	<1.7	<1.9	<2.1	<1 7
Methylene chloride	<11	<7.9	<8 0	<8 2	<8 4	<9.3	<11	<8 4
Naphthalene	<11	<7.9	<8 0	<8.2	<8.4	<9.3	<11	<8.4
n-Propylbenzene	<2.2	<1.6	<1.6	<1.6	<1.7	<1.9	<2.1	<1.7
Styrene	<1.1	<0 79	<0 80	<0.82	<0.84	<0.93	<1.1	<0.84
tert-Butylbenzene	<1 1	<0 79	<0.80	<0 82	<0 84	<0 93	<1.1	<0 84
1,1,1,2-Tetrachloroethane	<1 1	<0 79	<0.80	<0 82	<0 84	<0 93	<1.1	<0 84
1,1,2,2-Tetrachloroethane	<2 2	<1.6	<1.6	<1.6	<1 7	<1 9	<2 1	<1 7
Tetrachloroethene	<1.1	<0.79	<0 80	<0 82	<0.84	<0.93	<1 1	<0 84
Toluene	<1.1	<0.79	<0 80	<0.82	<0.84	<0.93	<1 1	<0 84
1,2,3-Trichlorobenzene	<2 2	<1 6	<1.6	<1.6	<1 7	<1 9	<2.1	<1 7
1,2,4-Trichlorobenzene	<2.2	<1.6	<1 6	<1.6	<1.7	<1.9	<2 1	<1 7
1,1,1-Trichloroethane	<1 1	<0.79	<0.80	<0.82	<0.84	<0.93	<1.1	<0 84
1,1,2-Trichloroethane	<1.1	<0.79	<0.80	<0.82	<0.84	<0.93	<1 1	<0.84
Trichloroethene	<2.2	<1.6	<1 6	<1.6	<1.7	<1.9	<2.1	<1.7
1,2,3-Trichloropropane	<2.2	<1 6	<1 6	<1.6	<1.7	<1.9	<2.1	<1 7
1,2,4-Trimethylbenzene	<2 2	<1.6	<1 6	<1 6	<1.7	<1.9	<2.1	<1 7
1,3,5-Trimethylbenzene	<2.2	<1.6	<1.6	<1.6	<1 7	<1.9	<2.1	<1.7
Vinyl Acetate	<11	<7.9	<8 0	<8.2	<8 4	<9 3	<11	<8.4
Vinyl Chloride	<1 1	<0 79	<0.80	<0 82	<0.84	<0.93	<1.1	<0 84
m,p-Xylene	<2 2	<1.6	<1.6	<1.6	<1 7	<1.9	<2 1	<1 7
o-Xylene	<1.1	<0.79	<0 80	<0.82	<0.84	<0 93	<1.1	<0.84

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit

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Table 6
Summary of Soil Sample Analytical Results
VOCs

Boring ID	SB10	SB10	SB11	SB11	SB11	SB13	SB13	SB13
Sample Depth Interval (ft bgs)	25.0-25.5	32.5-33.0	7.0-7.5	10.5-11.0	19.5-20.0	1.0-1.5	14.5-15.0	22.0-22.5
Sample ID	SB10-25.0-25.5	SB10-32.5-33.0	SB11-7.0-7.5	SB11-10.5-11.0	SB11-19.5-20.0	SB13-1.0-1.5	SB13-14.5-15.0	SB13-22.0-22.5
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/21/10	12/21/10	12/21/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<44	<47	<60	<68	<38	<62	<50	<48
Benzene	<0.87	<0.94	**1.3**	**1.7**	<0.76	<1.2	<1.0	<0.95
Bromobenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Bromochloromethane	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
Bromoform	<4.4	<4.7	<6.0	<6.8	<3.8	<6.2	<5.0	<4.8
Bromomethane	<17	<19	<24	<27	<15	<25	<20	<19
n-Butylbenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
sec-Butylbenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Carbon disulfide	<8.7	<9.4	<12	<14	<7.6	<12	**11**	<9.5
Carbon Tetrachloride	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Chlorobenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Chloroethane	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
Chloroform	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Chloromethane	<17	<19	<24	<27	<15	<25	<20	<19
2-Chlorotoluene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
4-Chlorotoluene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,2-Dibromo-3-chloropropane	<4.4	<4.7	<6.0	<6.8	<3.8	<6.2	<5.0	<4.8
Dibromochloromethane	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
1,2-Dibromoethane (EDB)	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Dibromomethane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,2-Dichlorobenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,3-Dichlorobenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,4-Dichlorobenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Dichlorobromomethane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,1-Dichloroethane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,2-Dichloroethane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,1-Dichloroethene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
cis-1,2-Dichloroethene	**1.1**	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	**11**
trans-1,2-Dichloroethene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	**1.0**
1,2-Dichloropropane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,3-Dichloropropane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
2,2-Dichloropropane	<4.4	<4.7	<6.0	<6.8	<3.8	<6.2	<5.0	<4.8
1,1-Dichloropropene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
cis-1,3-Dichloropropene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
trans-1,3-Dichloropropene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
Ethylbenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Freon 11 (Trichlorofluoromethane)	<8.7	<9.4	<12	<14	<7.6	<12	<10	<9.5
Freon 113 (1,1,2-trichloro-1,2,2-trifluoretha	<8.7	<9.4	<12	<14	<7.6	<12	<10	<9.5
Freon 12 (Dichlorodifluoromethane)	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
2-Hexanone	<17	<19	<24	<27	<15	<25	<20	<19
Isopropylbenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
p-Isopropyltoluene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Methyl Ethyl Ketone	<17	<19	<24	<27	<15	<25	<20	<19
Methyl isobutyl ketone (MIBK)	<17	<19	<24	<27	<15	<25	<20	<19
Methyl Tert-butyl ether (MTBE)	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
Methylene chloride	<8.7	<9.4	<12	<14	<7.6	<12	<10	<9.5
Naphthalene	<8.7	<9.4	<12	<14	<7.6	<12	<10	<9.5
n-Propylbenzene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
Styrene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
tert-Butylbenzene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,1,1,2-Tetrachloroethane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,1,2,2-Tetrachloroethane	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
Tetrachloroethene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Toluene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,2,3-Trichlorobenzene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
1,2,4-Trichlorobenzene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
1,1,1-Trichloroethane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
1,1,2-Trichloroethane	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
Trichloroethene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	**16**
1,2,3-Trichloropropane	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
1,2,4-Trimethylbenzene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
1,3,5-Trimethylbenzene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
Vinyl Acetate	<8.7	<9.4	<12	<14	<7.6	<12	<10	<9.5
Vinyl Chloride	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95
m,p-Xylene	<1.7	<1.9	<2.4	<2.7	<1.5	<2.5	<2.0	<1.9
o-Xylene	<0.87	<0.94	<1.2	<1.4	<0.76	<1.2	<1.0	<0.95

Notes.
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit

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Boring ID	SB14	SB14	SB14	SB15	SB15	SB15	SB16	SB16
Sample Depth Interval (ft bgs)	4.0-4.5	13.5-14.0	15.5-16.0	2.0-2.5	13.0-13.5	16.5-17.0	5.5-6.0	17.0-17.5
Sample ID	SB14-4.0-4.5	SB14-13.5-14.0	SB14-15.5-16.0	SB15-2.0-2.5	SB15-13.0-13.5	SB15-16.5-17.0	SB16-5.5-6.0	SB16-17.0-17.5
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<52	<55	<46	<60	<54	<52	<49	<40
Benzene	**3.4**	<1 1	<0 93	<1 2	<1 1	<1 0	<0 97	<0 80
Bromobenzene	<1 0	<1.1	<0 93	<1 2	<1 1	<1 0	<0 97	<0 80
Bromochloromethane	<2 1	<2.2	<1 9	<2 4	<2 2	<2 1	<1.9	<1 6
Bromoform	<5 2	<5.5	<4 6	<6 0	<5 4	<5 2	<4.9	<4 0
Bromomethane	<21	<22	<19	<24	<22	<21	<19	<16
n-Butylbenzene	<1 0	<1.1	<0 93	<1 2	<1 1	<1 0	<0 97	<0 80
sec-Butylbenzene	<1 0	<1.1	<0 93	<1 2	<1 1	<1 0	<0 97	<0.80
Carbon disulfide	<10	<11	<9.3	<12	<11	<10	<9.7	<8.0
Carbon Tetrachloride	<1.0	<1.1	<0.93	<1.2	<1.1	<1.0	<0.97	<0 80
Chlorobenzene	<1 0	<1.1	<0 93	<1 2	<1 1	<1 0	<0 97	<0 80
Chloroethane	<2 1	<2.2	<1 9	<2 4	<2 2	<2 1	<1.9	<1 6
Chloroform	<1.0	<1.1	<0.93	<1.2	<1.1	<1.0	<0.97	<0.80
Chloromethane	<21	<22	<19	<24	<22	<21	<19	<16
2-Chlorotoluene	<1 0	<1.1	<0 93	<1 2	<1 1	<1 0	<0 97	<0 80
4-Chlorotoluene	<1 0	<1.1	<0 93	<1 2	<1 1	<1 0	<0.97	<0 80
1,2-Dibromo-3-chloropropane	<5 2	<5.5	<4 6	<6 0	<5 4	<5 2	<4.9	<4.0
Dibromochloromethane	<2 1	<2.2	<1 9	<2 4	<2 2	<2 1	<1 9	<1 6
1,2-Dibromoethane (EDB)	<1.0	<1.1	<0.93	<1.2	<1.1	<1.0	<0.97	<0 80
Dibromomethane	<1 0	<1.1	<0 93	<1 2	<1.1	<1.0	<0.97	<0.80
1,2-Dichlorobenzene	<1 0	<1.1	<0 93	<1 2	<1 1	<1 0	<0.97	<0 80
1,3-Dichlorobenzene	<1 0	<1.1	<0 93	<1 2	<1 1	<1 0	<0.97	<0 80
1,4-Dichlorobenzene	<1 0	<1 1	<0 93	<1 2	<1 1	<1 0	<0.97	<0 80
Dichlorobromomethane	<1.0	<1.1	<0.93	<1.2	<1 1	<1.0	<0.97	<0 80
1,1-Dichloroethane	<1 0	<1 1	<0.93	<1 2	<1 1	<1 0	<0 97	<0 80
1,2-Dichloroethane	<1.0	<1 1	<0 93	<1 2	<1 1	<1 0	<0 97	<0 80
1,1-Dichloroethene	<1.0	<1.1	<0.93	<1.2	<1.1	<1.0	<0.97	<0 80
cis-1,2-Dichloroethene	<1 0	<1 1	<0 93	<1.2	<1 1	**1.6**	<0 97	<0 80
trans-1,2-Dichloroethene	<1 0	<1 1	<0 93	<1.2	<1.1	<1.0	<0.97	<0.80
1,2-Dichloropropane	<1 0	<1 1	<0 93	<1.2	<1 1	<1.0	<0 97	<0 80
1,3-Dichloropropane	<1 0	<1 1	<0 93	<1.2	<1.1	<1.0	<0 97	<0 80
2,2-Dichloropropane	<5 2	<5 5	<4 6	<6.0	<5 4	<5.2	<4.9	<4 0
1,1-Dichloropropene	<2.1	<2.2	<1.9	<2.4	<2 2	<2.1	<1.9	<1 6
cis-1,3-Dichloropropene	<1 0	<1 1	<0 93	<1.2	<1.1	<1.0	<0.97	<0.80
trans-1,3-Dichloropropene	<2 1	<2 2	<1 9	<2.4	<2 2	<2.1	<1 9	<1 6
Ethylbenzene	<1 0	<1 1	<0 93	<1.2	<1.1	<1 0	<0 97	<0 80
Freon 11 (Trichlorofluoromethane)	<10	<11	<9 3	<12	<11	<10	<9.7	<8 0
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroetha	<10	<11	<9 3	<12	<11	<10	<9.7	<8 0
Freon 12 (Dichlorodifluoromethane)	<2.1	<2.2	<1 9	<2.4	<2 2	<2.1	<1.9	<1.6
2-Hexanone	<21	<22	<19	<24	<22	<21	<19	<16
Isopropylbenzene	<1.0	<1 1	<0 93	<1 2	<1 1	<1 0	<0 97	<0 80
p-Isopropyltoluene	<1.0	<1.1	<0 93	<1 2	<1 1	<1 0	<0 97	<0 80
Methyl Ethyl Ketone	<21	<22	<19	<24	<22	<21	<19	<16
Methyl isobutyl ketone (MIBK)	<21	<22	<19	<24	<22	<21	<19	<16
Methyl Tert-butyl ether (MTBE)	<2.1	<2.2	<1 9	<2 4	<2 2	<2 1	<1 9	<1 6
Methylene chloride	<10	<11	<9 3	<12	<11	<10	<9 7	<8 0
Naphthalene	<10	<11	<9 3	<12	<11	<10	<9.7	<8.0
n-Propylbenzene	<2 1	<2 2	<1 9	<2 4	<2.2	<2.1	<1 9	<1 6
Styrene	<1 0	<1 1	<0 93	<1 2	<1.1	<1.0	<0 97	<0 80
tert-Butylbenzene	<1 0	<1 1	<0 93	<1 2	<1 1	<1.0	<0 97	<0 80
1,1,1,2-Tetrachloroethane	<1 0	<1 1	<0 93	<1 2	<1 1	<1.0	<0 97	<0 80
1,1,2,2-Tetrachloroethane	<2 1	<2 2	<1 9	<2 4	<2 2	<2.1	<1.9	<1 6
Tetrachloroethene	<1 0	<1 1	<0 93	<1.2	<1.1	<1.0	<0 97	<0 80
Toluene	<1 0	<1 1	<0 93	<1.2	<1.1	<1.0	<0 97	<0 80
1,2,3-Trichlorobenzene	<2 1	<2 2	<1 9	<2.4	<2 2	<2.1	<1 9	<1 6
1,2,4-Trichlorobenzene	<2 1	<2 2	<1 9	<2.4	<2 2	<2 1	<1 9	<1 6
1,1,1-Trichloroethane	<1.0	<1.1	<0.93	<1.2	<1 1	<1 0	<0.97	<0.80
1,1,2-Trichloroethane	<1.0	<1 1	<0 93	<1.2	<1 1	<1 0	<0.97	<0.80
Trichloroethene	<2.1	<2.2	<1.9	<2.4	<2 2	<2 1	<1.9	<1 6
1,2,3-Trichloropropane	<2 1	<2.2	<1 9	<2 4	<2 2	<2 1	<1 9	<1 6
1,2,4-Trimethylbenzene	<2 1	<2.2	<1 9	<2 4	<2 2	<2 1	<1 9	<1 6
1,3,5-Trimethylbenzene	<2.1	<2.2	<1 9	<2 4	<2.2	<2.1	<1.9	<1 6
Vinyl Acetate	<10	<11	<9 3	<12	<11	<10	<9.7	<8 0
Vinyl Chloride	<1 0	<1.1	<0.93	<1.2	<1 1	<1.0	<0.97	<0 80
m,p-Xylene	<2 1	<2 2	<1 9	<2 4	<2 2	<2.1	<1.9	<1 6
o-Xylene	<1.0	<1 1	<0 93	<1.2	<1.1	<1.0	<0 97	<0.80

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit

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Table 6
Summary of Soil Sample Analytical Results
VOCs

Boring ID	SB18	SB18	SB18	SB18	SB18	SB19	SB19	SB19
Sample Depth Interval (ft bgs)	4.25-4.75	8.5-9.0	13.0-13.5	23.0-23.5	27.5-28.0	15.5-16.0	17.0-17.5	22.0-22.5
Sample ID	SB18-4.25-4.75	SB18-8.5-9.0	SB18-13.0-13.5	SB18-23.0-23.5	SB18-27.5-28.0	SB19-15.5-16.0	SB19-17.0-17.5	SB19-22.0-22.5
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<82	<51	<54	<43	<42	<37	<39	<44
Benzene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Bromobenzene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Bromochloromethane	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
Bromoform	<8.2	<5.1	<5.4	<4.3	<4.2	<3.7	<3.9	<4.4
Bromomethane	<33	<20	<22	<17	<17	<15	<16	<18
n-Butylbenzene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
sec-Butylbenzene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Carbon disulfide	<16	<10	<11	<8.5	<8.5	<7.4	<7.9	<8.8
Carbon Tetrachloride	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Chlorobenzene	<1.6	<1.0	**1.1**	<0.85	<0.85	<0.74	<0.79	<0.88
Chloroethane	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
Chloroform	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Chloromethane	<33	<20	<22	<17	<17	<15	<16	<18
2-Chlorotoluene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
4-Chlorotoluene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,2-Dibromo-3-chloropropane	<8.2	<5.1	<5.4	<4.3	<4.2	<3.7	<3.9	<4.4
Dibromochloromethane	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
1,2-Dibromoethane (EDB)	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Dibromomethane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,2-Dichlorobenzene	<1.6	<1.0	**1.8**	<0.85	<0.85	<0.74	<0.79	<0.88
1,3-Dichlorobenzene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,4-Dichlorobenzene	<1.6	<1.0	**1.4**	<0.85	<0.85	<0.74	<0.79	<0.88
Dichlorobromomethane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,1-Dichloroethane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,2-Dichloroethane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,1-Dichloroethene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
cis-1,2-Dichloroethene	<1.6	<1.0	<1.1	**2.7**	**7.0**	<0.74	**1.8**	**2.2**
trans-1,2-Dichloroethene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,2-Dichloropropane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,3-Dichloropropane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
2,2-Dichloropropane	<8.2	<5.1	<5.4	<4.3	<4.2	<3.7	<3.9	<4.4
1,1-Dichloropropene	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
cis-1,3-Dichloropropene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
trans-1,3-Dichloropropene	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
Ethylbenzene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Freon 11 (Trichlorofluoromethane)	<16	<10	**33**	<8.5	<8.5	<7.4	<7.9	<8.8
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroetha	<16	<10	<11	<8.5	<8.5	<7.4	<7.9	<8.8
Freon 12 (Dichlorodifluoromethane)	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
2-Hexanone	<33	<20	<22	<17	<17	<15	<16	<18
Isopropylbenzene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
p-Isopropyltoluene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Methyl Ethyl Ketone	<33	<20	<22	<17	<17	<15	<16	<18
Methyl isobutyl ketone (MIBK)	<33	<20	<22	<17	<17	<15	<16	<18
Methyl Tert-butyl ether (MTBE)	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
Methylene chloride	<16	<10	<11	<8.5	<8.5	<7.4	<7.9	<8.8
Naphthalene	<16	<10	<11	<8.5	<8.5	<7.4	<7.9	<8.8
n-Propylbenzene	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
Styrene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
tert-Butylbenzene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,1,1,2-Tetrachloroethane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,1,2,2-Tetrachloroethane	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
Tetrachloroethene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Toluene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,2,3-Trichlorobenzene	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
1,2,4-Trichlorobenzene	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
1,1,1-Trichloroethane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
1,1,2-Trichloroethane	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
Trichloroethene	<3.3	<2.0	<2.2	**3.1**	**17**	<1.5	**2.4**	**3.0**
1,2,3-Trichloropropane	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
1,2,4-Trimethylbenzene	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
1,3,5-Trimethylbenzene	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
Vinyl Acetate	<16	<10	<11	<8.5	<8.5	<7.4	<7.9	<8.8
Vinyl Chloride	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88
m,p-Xylene	<3.3	<2.0	<2.2	<1.7	<1.7	<1.5	<1.6	<1.8
o-Xylene	<1.6	<1.0	<1.1	<0.85	<0.85	<0.74	<0.79	<0.88

Notes
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit

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Table 6
Summary of Soil Sample Analytical Results
VOCs

Boring ID	SB21	SB21	SB21	SB21	SB22	SB22	SB22	SB22
Sample Depth Interval (ft bgs)	4.5-5.0	13.5-14.0	21.5-22.0	27.5-28.0	5.0-5.5	9.5-10.0	17.0-17.5	21.0-21.5
Sample ID	SB21-4.5-5.0	SB21-13.5-14.0	SB21-21.5-22.0	SB21-27.5-28.0	SB22-5.0-5.5	SB22-9.5-10.0	SB22-17.0-17.5	SB22-21.0-21.5
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<49	<44	<43	<44	<45	<40	<42	<60
Benzene	**1.1**	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Bromobenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Bromochloromethane	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
Bromoform	<4.9	<4.4	<4.3	<4.4	<4.5	<4.0	<4.2	<6.0
Bromomethane	<19	<17	<17	<17	<18	<16	<17	<24
n-Butylbenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
sec-Butylbenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Carbon disulfide	<9.7	<8.7	<8.6	<8.7	<9.1	<8.0	<8.4	<12
Carbon Tetrachloride	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Chlorobenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Chloroethane	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
Chloroform	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Chloromethane	<19	<17	<17	<17	<18	<16	<17	<24
2-Chlorotoluene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
4-Chlorotoluene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,2-Dibromo-3-chloropropane	<4.9	<4.4	<4.3	<4.4	<4.5	<4.0	<4.2	<6.0
Dibromochloromethane	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
1,2-Dibromoethane (EDB)	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Dibromomethane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,2-Dichlorobenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,3-Dichlorobenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,4-Dichlorobenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Dichlorobromomethane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,1-Dichloroethane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,2-Dichloroethane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,1-Dichloroethene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
cis-1,2-Dichloroethene	<0.97	<0.87	<0.86	**5.1**	<0.91	<0.80	**3.1**	<1.2
trans-1,2-Dichloroethene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,2-Dichloropropane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,3-Dichloropropane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
2,2-Dichloropropane	<4.9	<4.4	<4.3	<4.4	<4.5	<4.0	<4.2	<6.0
1,1-Dichloropropene	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
cis-1,3-Dichloropropene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
trans-1,3-Dichloropropene	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
Ethylbenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Freon 11 (Trichlorofluoromethane)	<9.7	<8.7	<8.6	<8.7	<9.1	<8.0	<8.4	<12
Freon 113 (1,1,2-trichloro-1,2,2-trifluoretha	<9.7	<8.7	<8.6	<8.7	<9.1	<8.0	<8.4	<12
Freon 12 (Dichlorodifluoromethane)	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
2-Hexanone	<19	<17	<17	<17	<18	<16	<17	<24
Isopropylbenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
p-Isopropyltoluene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Methyl Ethyl Ketone	<19	<17	<17	<17	<18	<16	<17	<24
Methyl isobutyl ketone (MIBK)	<19	<17	<17	<17	<18	<16	<17	<24
Methyl Tert-butyl ether (MTBE)	<1.9	<1.7	<1.7	**1.9**	<1.8	<1.6	<1.7	<2.4
Methylene chloride	<9.7	<8.7	<8.6	<8.7	<9.1	<8.0	<8.4	<12
Naphthalene	<9.7	<8.7	<8.6	<8.7	<9.1	<8.0	<8.4	<12
n-Propylbenzene	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
Styrene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
tert-Butylbenzene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,1,1,2-Tetrachloroethane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,1,2,2-Tetrachloroethane	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
Tetrachloroethene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Toluene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,2,3-Trichlorobenzene	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
1,2,4-Trichlorobenzene	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
1,1,1-Trichloroethane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
1,1,2-Trichloroethane	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
Trichloroethene	<1.9	<1.7	<1.7	**6.8**	<1.8	<1.6	<1.7	<2.4
1,2,3-Trichloropropane	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
1,2,4-Trimethylbenzene	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
1,3,5-Trimethylbenzene	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
Vinyl Acetate	<9.7	<8.7	<8.6	<8.7	<9.1	<8.0	<8.4	<12
Vinyl Chloride	<0.97	**4.7**	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2
m,p-Xylene	<1.9	<1.7	<1.7	<1.7	<1.8	<1.6	<1.7	<2.4
o-Xylene	<0.97	<0.87	<0.86	<0.87	<0.91	<0.80	<0.84	<1.2

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit

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Boring ID	SB26	SB26	SB26	SB26	SB28	SB28	SB28	SB28
Sample Depth Interval (ft bgs)	3.0-3.5	9.5-10.0	15.0-15.5	25.0-25.5	3.5-4.0	16.5-17.0	21.0-21.5	24.5-25.0
Sample ID	SB26-3.0-3.5	SB26-9.5-10.0	SB26-15.0-15.5	SB26-25.0-25.5	SB28-3.5-4.0	SB28-16.5-17.0	SB28-21.0-21.5	SB28-24.5-25.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<57	<51	<45	<44	<43	<44	<40	<38
Benzene	<1.1	**1.1**	<0 90	<0 87	<0 86	<0 88	<0.80	<0 75
Bromobenzene	<1.1	<1.0	<0 90	<0.87	<0.86	<0 88	<0 80	<0.75
Bromochloromethane	<2.3	<2.0	<1 8	<1.7	<1.7	<1.8	<1.6	<1 5
Bromoform	<5 7	<5 1	<4 5	<4 4	<4 3	<4 4	<4.0	<3 8
Bromomethane	<23	<20	<18	<17	<17	<18	<16	<15
n-Butylbenzene	<1.1	<1.0	<0 90	<0.87	<0.86	<0 88	<0 80	<0 75
sec-Butylbenzene	<1.1	<1.0	<0.90	<0.87	<0.86	<0.88	<0.80	<0.75
Carbon disulfide	<11	<10	<9 0	<8.7	<8.6	<8 8	<8 0	<7.5
Carbon Tetrachloride	<1.1	<1.0	<0 90	<0.87	<0.86	<0.88	<0 80	<0 75
Chlorobenzene	<1.1	<1.0	<0 90	<0.87	<0.86	<0 88	<0.80	<0 75
Chloroethane	<2.3	<2.0	<1 8	<1.7	<1.7	<1.8	<1 6	<1 5
Chloroform	<1.1	<1.0	<0 90	<0.87	<0.86	<0.88	<0.80	<0 75
Chloromethane	<23	<20	<18	<17	<17	<18	<16	<15
2-Chlorotoluene	<1.1	<1.0	<0 90	<0 87	<0 86	<0 88	<0.80	<0.75
4-Chlorotoluene	<1.1	<1 0	<0 90	<0.87	<0.86	<0.88	<0.80	<0 75
1,2-Dibromo-3-chloropropane	<5.7	<5.1	<4.5	<4.4	<4.3	<4.4	<4.0	<3 8
Dibromochloromethane	<2.3	<2.0	<1.8	<1.7	<1 7	<1.8	<1.6	<1.5
1,2-Dibromoethane (EDB)	<1.1	<1.0	<0 90	<0 87	<0 86	<0.88	<0.80	<0.75
Dibromomethane	<1.1	<1.0	<0 90	<0 87	<0 86	<0.88	<0.80	<0.75
1,2-Dichlorobenzene	<1.1	<1 0	<0 90	<0 87	<0.86	<0.88	<0.80	<0.75
1,3-Dichlorobenzene	<1 1	<1 0	<0.90	<0 87	<0.86	<0 88	<0.80	<0.75
1,4-Dichlorobenzene	<1.1	<1 0	<0 90	<0.87	<0.86	<0.88	<0.80	<0.75
Dichlorobromomethane	<1 1	<1.0	<0.90	<0.87	<0.86	<0.88	<0.80	<0 75
1,1-Dichloroethane	<1 1	<1.0	<0.90	<0.87	<0.86	<0 88	<0 80	<0 75
1,2-Dichloroethane	<1 1	<1.0	<0 90	<0.87	<0.86	<0.88	<0 80	<0 75
1,1-Dichloroethene	<1.1	<1.0	<0.90	<0.87	<0.86	<0.88	<0.80	<0.75
cis-1,2-Dichloroethene	<1.1	<1.0	**1.1**	<0.87	<0.86	<0.88	<0 80	<0 75
trans-1,2-Dichloroethene	<1.1	<1.0	<0 90	<0 87	<0 86	<0 88	<0 80	<0 75
1,2-Dichloropropane	<1.1	<1.0	<0 90	<0 87	<0 86	<0 88	<0.80	<0 75
1,3-Dichloropropane	<1.1	<1.0	<0 90	<0 87	<0 86	<0 88	<0.80	<0 75
2,2-Dichloropropane	<5 7	<5.1	<4.5	<4.4	<4.3	<4.4	<4 0	<3 8
1,1-Dichloropropene	<2.3	<2.0	<1 8	<1.7	<1 7	<1.8	<1 6	<1 5
cis-1,3-Dichloropropene	<1.1	<1.0	<0 90	<0.87	<0.86	<0.88	<0.80	<0.75
trans-1,3-Dichloropropene	<2.3	<2.0	<1 8	<1.7	<1 7	<1 8	<1.6	<1 5
Ethylbenzene	<1.1	<1.0	<0 90	<0.87	<0.86	<0.88	<0 80	<0 75
Freon 11 (Trichlorofluoromethane)	<11	<10	<9.0	<8.7	<8.6	<8.8	<8.0	<7.5
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroetha	<11	<10	<9.0	<8.7	<8.6	<8.8	<8.0	<7.5
Freon 12 (Dichlorodifluoromethane)	<2.3	<2.0	<1 8	<1.7	<1.7	<1.8	<1.6	<1.5
2-Hexanone	<23	<20	<18	<17	<17	<18	<16	<15
Isopropylbenzene	<1.1	<1 0	<0 90	<0 87	<0 86	<0 88	<0 80	<0 75
p-Isopropyltoluene	<1.1	<1 0	<0 90	<0 87	<0 86	<0 88	<0 80	<0 75
Methyl Ethyl Ketone	<23	<20	<18	<17	<17	<18	<16	<15
Methyl isobutyl ketone (MIBK)	<23	<20	<18	<17	<17	<18	<16	<15
Methyl Tert-butyl ether (MTBE)	<2.3	<2 0	<1 8	<1.7	<1 7	<1.8	<1 6	<1 5
Methylene chloride	<11	<10	<9 0	<8 7	<8 6	<8 8	<8 0	<7 5
Naphthalene	<11	<10	<9.0	<8 7	<8.6	<8.8	<8.0	<7.5
n-Propylbenzene	<2 3	<2.0	<1 8	<1 7	<1 7	<1.8	<1.6	<1.5
Styrene	<1 1	<1.0	<0.90	<0.87	<0.86	<0.88	<0.80	<0.75
tert-Butylbenzene	<1.1	<1.0	<0 90	<0.87	<0.86	<0.88	<0.80	<0.75
1,1,1,2-Tetrachloroethane	<1.1	<1.0	<0 90	<0 87	<0 86	<0.88	<0 80	<0 75
1,1,2,2-Tetrachloroethane	<2.3	<2.0	<1 8	<1.7	<1.7	<1.8	<1.6	<1 5
Tetrachloroethene	<1.1	<1.0	<0 90	<0 87	<0 86	<0 88	<0 80	<0 75
Toluene	<1.1	<1.0	<0 90	<0.87	<0.86	<0.88	<0.80	<0.75
1,2,3-Trichlorobenzene	<2 3	<2.0	<1.8	<1.7	<1 7	<1.8	<1 6	<1 5
1,2,4-Trichlorobenzene	<2 3	<2.0	<1.8	<1 7	<1.7	<1.8	<1 6	<1 5
1,1,1-Trichloroethane	<1.1	<1.0	<0 90	<0.87	<0.86	<0 88	<0.80	<0.75
1,1,2-Trichloroethane	<1.1	<1.0	<0 90	<0 87	<0.86	<0.88	<0.80	<0.75
Trichloroethene	<2.3	<2.0	<1.8	<1.7	<1 7	<1 8	<1.6	<1.5
1,2,3-Trichloropropane	<2.3	<2 0	<1 8	<1.7	<1.7	<1.8	<1.6	<1.5
1,2,4-Trimethylbenzene	<2.3	<2.0	<1 8	<1.7	<1 7	<1.8	<1.6	<1 5
1,3,5-Trimethylbenzene	<2.3	<2.0	<1 8	<1.7	<1.7	<1.8	<1.6	<1 5
Vinyl Acetate	<11	<10	<9 0	<8.7	<8.6	<8.8	<8.0	<7 5
Vinyl Chloride	<1.1	<1.0	<0.90	<0.87	<0.86	<0 88	<0.80	<0.75
m,p-Xylene	<2.3	<2.0	<1 8	<1 7	<1 7	<1.8	<1 6	<1 5
o-Xylene	<1.1	<1.0	<0 90	<0.87	<0.86	<0.88	<0.80	<0.75

Notes.
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit

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Boring ID	SB29	SB29	SB29	SB29	SB29	SB29	SB30	SB30
Sample Depth Interval (ft bgs)	1.5-2.0	4.0-4.5	13.5-14.0	16.5-17.0	23.0-23.5	25.5-26.0	4.0-4.5	14.0-14.5
Sample ID	SB29-1.5-2.0	SB29-4.0-4.5	SB29-13.5-14.0	SB29-16.5-17.0	SB29-23.0-23.5	SB29-25.5-26.0	SB30-4.0-4.5	SB30-14.0-14.5
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<50	<50	<49	<45	<41	<52	<58	<60
Benzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Bromobenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Bromochloromethane	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
Bromoform	<5.0	<5.0	<4.9	<4.5	<4.1	<5.2	<5.8	<6.0
Bromomethane	<20	<20	<20	<18	<16	<21	<23	<24
n-Butylbenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
sec-Butylbenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Carbon disulfide	<9.9	**15**	<9.8	<9.0	<8.1	<10	<12	<12
Carbon Tetrachloride	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Chlorobenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Chloroethane	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
Chloroform	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Chloromethane	<20	<20	<20	<18	<16	<21	<23	<24
2-Chlorotoluene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
4-Chlorotoluene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,2-Dibromo-3-chloropropane	<5.0	<5.0	<4.9	<4.5	<4.1	<5.2	<5.8	<6.0
Dibromochloromethane	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
1,2-Dibromoethane (EDB)	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Dibromomethane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,2-Dichlorobenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,3-Dichlorobenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,4-Dichlorobenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Dichlorobromomethane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,1-Dichloroethane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,2-Dichloroethane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,1-Dichloroethene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
cis-1,2-Dichloroethene	<0.99	<1.0	<0.98	<0.90	**4.8**	**4.3**	<1.2	<1.2
trans-1,2-Dichloroethene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,2-Dichloropropane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,3-Dichloropropane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
2,2-Dichloropropane	<5.0	<5.0	<4.9	<4.5	<4.1	<5.2	<5.8	<6.0
1,1-Dichloropropene	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
cis-1,3-Dichloropropene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
trans-1,3-Dichloropropene	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
Ethylbenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Freon 11 (Trichlorofluoromethane)	<9.9	<10	<9.8	<9.0	<8.1	<10	<12	<12
Freon 113 (1,1,2-trichloro-1,2,2-trifluoretha	<9.9	<10	<9.8	<9.0	<8.1	<10	<12	<12
Freon 12 (Dichlorodifluoromethane)	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
2-Hexanone	<20	<20	<20	<18	<16	<21	<23	<24
Isopropylbenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
p-Isopropyltoluene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Methyl Ethyl Ketone	<20	<20	<20	<18	<16	<21	<23	<24
Methyl Isobutyl ketone (MIBK)	<20	<20	<20	<18	<16	<21	<23	<24
Methyl Tert-butyl ether (MTBE)	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
Methylene chloride	<9.9	<10	<9.8	<9.0	<8.1	<10	<12	<12
Naphthalene	<9.9	<10	<9.8	<9.0	<8.1	<10	<12	<12
n-Propylbenzene	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
Styrene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
tert-Butylbenzene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,1,1,2-Tetrachloroethane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,1,2,2-Tetrachloroethane	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
Tetrachloroethene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Toluene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,2,3-Trichlorobenzene	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
1,2,4-Trichlorobenzene	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
1,1,1-Trichloroethane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
1,1,2-Trichloroethane	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
Trichloroethene	<2.0	<2.0	<2.0	<1.8	**5.8**	**5.7**	<2.3	<2.4
1,2,3-Trichloropropane	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
1,2,4-Trimethylbenzene	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
1,3,5-Trimethylbenzene	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
Vinyl Acetate	<9.9	<10	<9.8	<9.0	<8.1	<10	<12	<12
Vinyl Chloride	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2
m,p-Xylene	<2.0	<2.0	<2.0	<1.8	<1.6	<2.1	<2.3	<2.4
o-Xylene	<0.99	<1.0	<0.98	<0.90	<0.81	<1.0	<1.2	<1.2

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit

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Table 6
Summary of Soil Sample Analytical Results
VOCs

Boring ID	SB30	SB30	SB31	SB31	SB31	SB31	SB32	SB32
Sample Depth Interval (ft bgs)	19.0-19.5	26.0-26.5	4.0-4.5	25.0-25.5	27.0-28.0	33.0-33.5	4.0-4.5	15.5-16.0
Sample ID	SB30-19.0-19.5	SB30-26.0-26.5	SB31-4.0-4.5	SB31-25.0-25.5	SB31-27.0-28.0	SB31-33.0-33.5	SB32-4.0-4.5	SB32-15.5-16.0
Sample Date	12/20/10	12/20/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<40	<45	<52	<41	<52	<44	<62	<58
Benzene	<0.80	<0.89	**1.4**	<0.83	<1.0	<0.89	<1.2	<1.2
Bromobenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Bromochloromethane	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
Bromoform	<4.0	<4.5	<5.2	<4.1	<5.2	<4.4	<6.2	<5.8
Bromomethane	<16	<18	<21	<17	<21	<18	<25	<23
n-Butylbenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
sec-Butylbenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Carbon disulfide	<8.0	<8.9	<10	<8.3	<10	<8.9	<12	<12
Carbon Tetrachloride	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Chlorobenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Chloroethane	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
Chloroform	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Chloromethane	<16	<18	<21	<17	<21	<18	<25	<23
2-Chlorotoluene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
4-Chlorotoluene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,2-Dibromo-3-chloropropane	<4.0	<4.5	<5.2	<4.1	<5.2	<4.4	<6.2	<5.8
Dibromochloromethane	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
1,2-Dibromoethane (EDB)	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Dibromomethane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,2-Dichlorobenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,3-Dichlorobenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,4-Dichlorobenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Dichlorobromomethane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,1-Dichloroethane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,2-Dichloroethane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,1-Dichloroethene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
cis-1,2-Dichloroethene	<0.80	<0.89	<1.0	**7.9**	**5.0**	**5.5**	<1.2	<1.2
trans-1,2-Dichloroethene	<0.80	<0.89	<1.0	**2.0**	<1.0	<0.89	<1.2	<1.2
1,2-Dichloropropane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,3-Dichloropropane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
2,2-Dichloropropane	<4.0	<4.5	<5.2	<4.1	<5.2	<4.4	<6.2	<5.8
1,1-Dichloropropene	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
cis-1,3-Dichloropropene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
trans-1,3-Dichloropropene	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
Ethylbenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Freon 11 (Trichlorofluoromethane)	<8.0	<8.9	<10	<8.3	<10	<8.9	<12	<12
Freon 113 (1,1,2-trichloro-1,2,2-trifluoretha	<8.0	<8.9	<10	<8.3	<10	<8.9	<12	<12
Freon 12 (Dichlorodifluoromethane)	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
2-Hexanone	<16	<18	<21	<17	<21	<18	<25	<23
Isopropylbenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
p-Isopropyltoluene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Methyl Ethyl Ketone	<16	<18	<21	<17	<21	<18	<25	<23
Methyl isobutyl ketone (MIBK)	<16	<18	<21	<17	<21	<18	<25	<23
Methyl Tert-butyl ether (MTBE)	<1.6	**6.4**	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
Methylene chloride	<8.0	<8.9	<10	<8.3	<10	<8.9	<12	<12
Naphthalene	<8.0	<8.9	<10	<8.3	<10	<8.9	<12	<12
n-Propylbenzene	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
Styrene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
tert-Butylbenzene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,1,1,2-Tetrachloroethane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,1,2,2-Tetrachloroethane	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
Tetrachloroethene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Toluene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,2,3-Trichlorobenzene	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
1,2,4-Trichlorobenzene	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
1,1,1-Trichloroethane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
1,1,2-Trichloroethane	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
Trichloroethene	<1.6	<1.8	<2.1	<1.7	**6.7**	**10**	<2.5	<2.3
1,2,3-Trichloropropane	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
1,2,4-Trimethylbenzene	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
1,3,5-Trimethylbenzene	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
Vinyl Acetate	<8.0	<8.9	<10	<8.3	<10	<8.9	<12	<12
Vinyl Chloride	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2
m,p-Xylene	<1.6	<1.8	<2.1	<1.7	<2.1	<1.8	<2.5	<2.3
o-Xylene	<0.80	<0.89	<1.0	<0.83	<1.0	<0.89	<1.2	<1.2

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.

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Boring ID	SB32	SB33	SB33	SB33	SB33	SB34	SB34	SB34
Sample Depth Interval (ft bgs)	29.0-29.5	3.0-3.5	16.0-16.5	26.5-27.0	38.0-38.5	1.5-2.0	15.5-16.0	25.0-25.5
Sample ID	SB32-29.0-29.5	SB33-3.0-3.5	SB33-16.0-16.5	SB33-26.5-27.0	SB33-38.0-38.5	SB34-1.5-2.0	SB34-15.5-16.0	SB34-25.0-25.5
Sample Date	12/21/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<43	<49	<47	<45	<39	<54	<40	<45
Benzene	<0 86	<0 98	**1.3**	<0.90	<0.78	**1.5**	<0.80	<0.89
Bromobenzene	<0.86	<0.98	<0.94	<0.90	<0.78	<1 1	<0 80	<0 89
Bromochloromethane	<1.7	<2.0	<1.9	<1.8	<1.6	<2.2	<1.6	<1.8
Bromoform	<4 3	<4 9	<4 7	<4 5	<3 9	<5 4	<4.0	<4 5
Bromomethane	<17	<20	<19	<18	<16	<22	<16	<18
n-Butylbenzene	<0 86	<0 98	<0 94	<0.90	<0.78	<1.1	<0 80	<0 89
sec-Butylbenzene	<0.86	<0.98	<0.94	<0.90	<0.78	<1 1	<0.80	<0.89
Carbon disulfide	<8.6	<9.8	<9 4	<9 0	<7 8	<11	<8.0	<8.9
Carbon Tetrachloride	<0 86	<0 98	<0 94	<0.90	<0.78	<1.1	<0.80	<0 89
Chlorobenzene	<0.86	<0.98	<0 94	<0.90	<0.78	<1.1	<0.80	<0 89
Chloroethane	<1 7	<2 0	<1 9	<1.8	<1.6	<2.2	<1.6	<1 8
Chloroform	<0.86	<0.98	<0.94	<0.90	<0.78	<1.1	<0.80	<0 89
Chloromethane	<17	<20	<19	<18	<16	<22	<16	<18
2-Chlorotoluene	<0.86	<0.98	<0 94	<0.90	<0.78	<1.1	<0.80	<0 89
4-Chlorotoluene	<0.86	<0.98	<0 94	<0.90	<0 78	<1.1	<0.80	<0 89
1,2-Dibromo-3-chloropropane	<4 3	<4 9	<4 7	<4.5	<3.9	<5.4	<4.0	<4.5
Dibromochloromethane	<1 7	<2 0	<1.9	<1.8	<1.6	<2.2	<1 6	<1.8
1,2-Dibromoethane (EDB)	<0 86	<0.98	<0 94	<0.90	<0.78	<1.1	<0 80	<0.89
Dibromomethane	<0.86	<0.98	<0.94	<0.90	<0.78	<1.1	<0.80	<0.89
1,2-Dichlorobenzene	<0.86	<0.98	<0.94	<0.90	<0 78	<1.1	<0.80	<0 89
1,3-Dichlorobenzene	<0 86	<0 98	<0 94	<0 90	<0 78	<1 1	<0 80	<0.89
1,4-Dichlorobenzene	<0 86	<0 98	<0 94	<0.90	<0.78	<1.1	<0.80	<0.89
Dichlorobromomethane	<0 86	<0 98	<0 94	<0 90	<0.78	<1.1	<0.80	<0 89
1,1-Dichloroethane	<0 86	<0 98	<0 94	<0.90	<0.78	<1.1	<0 80	**1.2**
1,2-Dichloroethane	<0 86	<0 98	<0 94	<0.90	**0.85**	<1.1	<0.80	<0 89
1,1-Dichloroethene	<0 86	<0 98	**3.2**	1.3	<0.78	<1.1	**0.89**	**14**
cis-1,2-Dichloroethene	**0.87**	<0 98	**2.1**	3.2	<0.78	<1.1	<0 80	**3.1**
trans-1,2-Dichloroethene	<0.86	<0.98	<0.94	<0.90	<0.78	<1 1	<0.80	<0 89
1,2-Dichloropropane	<0 86	<0 98	<0.94	<0.90	<0.78	<1.1	<0.80	<0.89
1,3-Dichloropropane	<0 86	<0 98	<0 94	<0.90	<0.78	<1.1	<0.80	<0 89
2,2-Dichloropropane	<4 3	<4 9	<4 7	<4 5	<3 9	<5.4	<4.0	<4 5
1,1-Dichloropropene	<1 7	<2.0	<1.9	<1.8	<1.6	<2.2	<1.6	<1.8
cis-1,3-Dichloropropene	<0.86	<0.98	<0.94	<0.90	<0 78	<1.1	<0.80	<0.89
trans-1,3-Dichloropropene	<1.7	<2 0	<1.9	<1.8	<1 6	<2.2	<1.6	<1 8
Ethylbenzene	<0.86	<0.98	<0 94	<0 90	<0 78	<1.1	<0.80	<0.89
Freon 11 (Trichlorofluoromethane)	<8.6	<9.8	<9 4	<9.0	<7.8	<11	<8.0	<8 9
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroetha	<8.6	<9 8	<9 4	<9.0	<7.8	<11	<8.0	<8 9
Freon 12 (Dichlorodifluoromethane)	<1.7	<2.0	<1.9	<1.8	<1.6	<2 2	<1.6	<1.8
2-Hexanone	<17	<20	<19	<18	<16	<22	<16	<18
Isopropylbenzene	<0 86	<0 98	<0 94	<0.90	<0.78	<1.1	<0 80	<0 89
p-Isopropyltoluene	<0 86	<0 98	<0 94	<0 90	<0.78	<1.1	<0.80	<0 89
Methyl Ethyl Ketone	<17	<20	<19	<18	<16	<22	<16	<18
Methyl isobutyl ketone (MIBK)	<17	<20	<19	<18	<16	<22	<16	<18
Methyl Tert-butyl ether (MTBE)	<1 7	<2 0	<1 9	<1 8	<1.6	<2.2	<1 6	<1 8
Methylene chloride	<8 6	<9 8	<9 4	<9.0	<7.8	<11	<8 0	<8 9
Naphthalene	<8.6	<9 8	<9 4	<9.0	<7.8	<11	<8.0	<8.9
n-Propylbenzene	<1 7	<2 0	<1.9	<1.8	<1 6	<2.2	<1.6	<1 8
Styrene	<0.86	<0.98	<0.94	<0 90	<0.78	<1.1	<0 80	<0 89
tert-Butylbenzene	<0.86	<0.98	<0 94	<0 90	<0.78	<1 1	<0 80	<0 89
1,1,1,2-Tetrachloroethane	<0 86	<0.98	<0 94	<0 90	<0 78	<1 1	<0.80	<0 89
1,1,2,2-Tetrachloroethane	<1.7	<2.0	<1.9	<1 8	<1 6	<2.2	<1.6	<1 8
Tetrachloroethene	<0.86	<0.98	<0 94	<0.90	<0.78	<1.1	<0.80	<0.89
Toluene	<0 86	<0.98	<0 94	<0.90	<0.78	**1.8**	<0.80	<0.89
1,2,3-Trichlorobenzene	<1.7	<2.0	<1 9	<1.8	<1 6	<2.2	<1.6	<1.8
1,2,4-Trichlorobenzene	<1.7	<2.0	<1.9	<1 8	<1 6	<2.2	<1 6	<1 8
1,1,1-Trichloroethane	<0.86	<0.98	<0 94	<0.90	<0.78	<1.1	<0.80	<0 89
1,1,2-Trichloroethane	<0 86	<0.98	<0 94	<0.90	<0.78	<1.1	<0.80	<0.89
Trichloroethene	**4.6**	<2.0	**2.4**	**5.8**	<1.6	<2.2	<1.6	**5.9**
1,2,3-Trichloropropane	<1 7	<2 0	<1 9	<1.8	<1 6	<2.2	<1.6	<1 8
1,2,4-Trimethylbenzene	<1 7	<2 0	<1.9	<1.8	<1 6	<2.2	<1 6	<1 8
1,3,5-Trimethylbenzene	<1 7	<2.0	<1 9	<1.8	<1.6	<2.2	<1.6	<1.8
Vinyl Acetate	<8 6	<9 8	<9.4	<9.0	<7 8	<11	<8.0	<8.9
Vinyl Chloride	<0 86	<0.98	<0.94	<0 90	<0 78	<1.1	<0 80	<0.89
m,p-Xylene	<1.7	<2.0	<1 9	<1 8	<1 6	<2 2	<1.6	<1 8
o-Xylene	<0 86	<0 98	<0.94	<0.90	<0.78	<1.1	<0.80	<0.89

Notes.
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit

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Boring ID	SB35	SB35	SB35	SB36	SB36	SB36	SB36	SB37
Sample Depth Interval (ft bgs)	1.5-2.0	7.0-7.5	14.0-14.5	1.5-2.0	7.0-7.5	25.0-25.5	36.5-37.0	1.5-2.0
Sample ID	SB35-1.5-2.0	SB35-7.0-7.5	SB35-14.0-14.5	SB36-1.5-2.0	SB36-7.0-7.5	SB36-25.0-25.5	SB36-36.5-37.0	SB37-1.5-2.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<41	<56	<45	<62	<50	<43	<38	<41
Benzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Bromobenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Bromochloromethane	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
Bromoform	<4.1	<5.6	<4.5	<6.2	<5.0	<4.3	<3.8	<4.1
Bromomethane	<16	<22	<18	<25	<20	<17	<15	<16
n-Butylbenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
sec-Butylbenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Carbon disulfide	<8.1	<11	<9.0	<12	<10	<8.6	<7.6	<8.2
Carbon Tetrachloride	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Chlorobenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Chloroethane	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
Chloroform	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Chloromethane	<16	<22	<18	<25	<20	<17	<15	<16
2-Chlorotoluene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
4-Chlorotoluene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,2-Dibromo-3-chloropropane	<4.1	<5.6	<4.5	<6.2	<5.0	<4.3	<3.8	<4.1
Dibromochloromethane	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
1,2-Dibromoethane (EDB)	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Dibromomethane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,2-Dichlorobenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,3-Dichlorobenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,4-Dichlorobenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Dichlorobromomethane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,1-Dichloroethane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,2-Dichloroethane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,1-Dichloroethene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
cis-1,2-Dichloroethene	<0.81	<1.1	**1.0**	<1.2	<1.0	**3.0**	<0.76	<0.82
trans-1,2-Dichloroethene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,2-Dichloropropane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,3-Dichloropropane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
2,2-Dichloropropane	<4.1	<5.6	<4.5	<6.2	<5.0	<4.3	<3.8	<4.1
1,1-Dichloropropene	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
cis-1,3-Dichloropropene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
trans-1,3-Dichloropropene	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
Ethylbenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Freon 11 (Trichlorofluoromethane)	<8.1	<11	<9.0	<12	<10	<8.6	<7.6	<8.2
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroetha	<8.1	<11	<9.0	<12	<10	<8.6	<7.6	<8.2
Freon 12 (Dichlorodifluoromethane)	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
2-Hexanone	<16	<22	<18	<25	<20	<17	<15	<16
Isopropylbenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
p-Isopropyltoluene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Methyl Ethyl Ketone	<16	<22	<18	<25	<20	<17	<15	<16
Methyl isobutyl ketone (MIBK)	<16	<22	<18	<25	<20	<17	<15	<16
Methyl Tert-butyl ether (MTBE)	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
Methylene chloride	<8.1	<11	<9.0	<12	<10	<8.6	<7.6	<8.2
Naphthalene	<8.1	<11	<9.0	<12	<10	<8.6	<7.6	<8.2
n-Propylbenzene	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
Styrene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
tert-Butylbenzene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,1,1,2-Tetrachloroethane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,1,2,2-Tetrachloroethane	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
Tetrachloroethene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Toluene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,2,3-Trichlorobenzene	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
1,2,4-Trichlorobenzene	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
1,1,1-Trichloroethane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
1,1,2-Trichloroethane	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
Trichloroethene	<1.6	<2.2	<1.8	<2.5	<2.0	**5.2**	<1.5	<1.6
1,2,3-Trichloropropane	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
1,2,4-Trimethylbenzene	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
1,3,5-Trimethylbenzene	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
Vinyl Acetate	<8.1	<11	<9.0	<12	<10	<8.6	<7.6	<8.2
Vinyl Chloride	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82
m,p-Xylene	<1.6	<2.2	<1.8	<2.5	<2.0	<1.7	<1.5	<1.6
o-Xylene	<0.81	<1.1	<0.90	<1.2	<1.0	<0.86	<0.76	<0.82

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
"<X" = the constituent was not detected at or above the indicated detection limit

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Table 6
Summary of Soil Sample Analytical Results
VOCs

Boring ID	SB37	SB37	SB38	SB38	SB38	SB40	SB40	SB40
Sample Depth Interval (ft bgs)	10.5-11.0	13.5-14.0	1.5-2.0	10.5-11.0	31.0-31.5	2.0-2.5	5.0-5.5	10.0-10.5
Sample ID	SB37-10.5-11.0	SB37-13.5-14.0	SB38-1.5-2.0	SB38-10.5-11.0	SB38-31.0-31.5	SB40-2.0-2.5	SB40-5.0-5.5	SB40-10.0-10.5
Sample Date	12/19/10	12/19/10	12/21/10	12/21/10	12/21/10	12/20/10	12/20/10	12/20/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acetone	<47	<44	<44	<54	<39	<72	<80	<46
Benzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Bromobenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Bromochloromethane	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
Bromoform	<4.7	<4.4	<4.4	<5.4	<3.9	<7.2	<8.0	<4.6
Bromomethane	<19	<18	<17	<22	<16	<29	<32	<19
n-Butylbenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
sec-Butylbenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Carbon disulfide	<9.4	<8.9	<8.7	<11	<7.8	<14	<16	<9.3
Carbon Tetrachloride	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Chlorobenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Chloroethane	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
Chloroform	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Chloromethane	<19	<18	<17	<22	<16	<29	<32	<19
2-Chlorotoluene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
4-Chlorotoluene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,2-Dibromo-3-chloropropane	<4.7	<4.4	<4.4	<5.4	<3.9	<7.2	<8.0	<4.6
Dibromochloromethane	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
1,2-Dibromoethane (EDB)	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Dibromomethane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,2-Dichlorobenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	**1.0**
1,3-Dichlorobenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,4-Dichlorobenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Dichlorobromomethane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,1-Dichloroethane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,2-Dichloroethane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,1-Dichloroethene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
cis-1,2-Dichloroethene	<0.94	<0.89	<0.87	<1.1	**6.4**	<1.4	<1.6	<0.93
trans-1,2-Dichloroethene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,2-Dichloropropane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,3-Dichloropropane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
2,2-Dichloropropane	<4.7	<4.4	<4.4	<5.4	<3.9	<7.2	<8.0	<4.6
1,1-Dichloropropene	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
cis-1,3-Dichloropropene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
trans-1,3-Dichloropropene	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
Ethylbenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Freon 11 (Trichlorofluoromethane)	<9.4	<8.9	<8.7	<11	<7.8	<14	<16	<9.3
Freon 113 (1,1,2-trichloro-1,2,2-trifluoretha	<9.4	<8.9	<8.7	<11	<7.8	<14	<16	<9.3
Freon 12 (Dichlorodifluoromethane)	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
2-Hexanone	<19	<18	<17	<22	<16	<29	<32	<19
Isopropylbenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
p-Isopropyltoluene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Methyl Ethyl Ketone	<19	<18	<17	<22	<16	<29	<32	<19
Methyl isobutyl ketone (MIBK)	<19	<18	<17	<22	<16	<29	<32	<19
Methyl Tert-butyl ether (MTBE)	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
Methylene chloride	<9.4	<8.9	<8.7	<11	<7.8	<14	<16	<9.3
Naphthalene	<9.4	<8.9	<8.7	<11	<7.8	<14	<16	<9.3
n-Propylbenzene	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
Styrene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
tert-Butylbenzene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,1,1,2-Tetrachloroethane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,1,2,2-Tetrachloroethane	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
Tetrachloroethene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Toluene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,2,3-Trichlorobenzene	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
1,2,4-Trichlorobenzene	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
1,1,1-Trichloroethane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
1,1,2-Trichloroethane	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
Trichloroethene	<1.9	<1.8	<1.7	<2.2	**11**	<2.9	<3.2	<1.9
1,2,3-Trichloropropane	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
1,2,4-Trimethylbenzene	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
1,3,5-Trimethylbenzene	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
Vinyl Acetate	<9.4	<8.9	<8.7	<11	<7.8	<14	<16	<9.3
Vinyl Chloride	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93
m,p-Xylene	<1.9	<1.8	<1.7	<2.2	<1.6	<2.9	<3.2	<1.9
o-Xylene	<0.94	<0.89	<0.87	<1.1	<0.78	<1.4	<1.6	<0.93

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 7
Summary of Soil Sample Analytical Results
PAHs

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB01	SB01	SB01	SB02	SB02	SB02
Sample Depth Interval (ft bgs)	2.0-4.0	12.5-13.0	33.0-35.0	1.0-3.0	14.0-16.0	34.0-36.0
Sample ID	SB01-2.0-4.0	SB01-12.5-13.0	SB01-33.0-35.0	SB02-1.0-3.0	SB02-14.0-16.0	SB02-34.0-36.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.021	<0.027	<0.024	<0.23	<0.026	<0.024
Acenaphthylene	<0.021	<0.027	<0.024	**1.3**	<0.026	<0.024
Anthracene	<0.021	<0.027	<0.024	**0.63**	<0.026	<0.024
Benzo(a)anthracene	**0.023**	**0.050**	<0.024	**3.4**	<0.026	<0.024
Benzo(a)pyrene	**0.034**	**0.092**	<0.024	**5.2**	**0.031**	<0.024
Benzo(b)fluoranthene	**0.030**	**0.061**	<0.024	**3.5**	<0.026	<0.024
Benzo(g,h,i)perylene	**0.040**	**0.070**	<0.024	**5.7**	**0.030**	<0.024
Benzo(k)fluoranthene	**0.023**	**0.063**	<0.024	**3.7**	<0.026	<0.024
Chrysene	**0.036**	**0.064**	<0.024	**4.6**	<0.026	<0.024
Dibenzo(a,h)anthracene	<0.021	<0.027	<0.024	**0.87**	<0.026	<0.024
Fluoranthene	**0.032**	**0.083**	<0.024	**5.0**	<0.026	<0.024
Fluorene	<0.021	<0.027	<0.024	<0.23	<0.026	<0.024
Indeno(1,2,3-c,d)pyrene	**0.024**	**0.054**	<0.024	**4.0**	<0.026	<0.024
1-Methylnaphthalene	<0.021	<0.027	<0.024	**0.26**	<0.026	<0.024
2-Methylnaphthalene	<0.021	<0.027	<0.024	**0.51**	<0.026	<0.024
Naphthalene	<0.021	<0.027	<0.024	**0.92**	<0.026	<0.024
Phenanthrene	<0.021	<0.027	<0.024	**2.3**	<0.026	<0.024
Pyrene	**0.057**	**0.13**	<0.024	**9.5**	**0.039**	<0.024

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 7
Summary of Soil Sample Analytical Results
PAHs

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB03	SB03	SB03	SB03	SB05	SB05
Sample Depth Interval (ft bgs)	1.0-1.5	14.0-16.0	21.0-23.0	34.0-36.0	2.0-4.0	12.0-14.0
Sample ID	SB03-1.0-1.5	SB03-14.0-16.0	SB03-21.0-23.0	SB03-34.0-36.0	SB05-2.0-4.0	SB05-12.0-14.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.47	<0.028	<0.024	<0.024	<0.021	<0.024
Acenaphthylene	**3.1**	<0.028	<0.024	<0.024	**0.12**	<0.024
Anthracene	**1.5**	<0.028	<0.024	<0.024	**0.064**	<0.024
Benzo(a)anthracene	**7.6**	**0.045**	<0.024	<0.024	**0.27**	<0.024
Benzo(a)pyrene	**13**	**0.15**	<0.024	<0.024	**0.44**	**0.042**
Benzo(b)fluoranthene	**8.6**	**0.12**	<0.024	<0.024	**0.30**	**0.031**
Benzo(g,h,i)perylene	**13**	**0.16**	<0.024	<0.024	**0.55**	**0.042**
Benzo(k)fluoranthene	**8.1**	**0.074**	<0.024	<0.024	**0.33**	**0.026**
Chrysene	**10**	**0.055**	<0.024	<0.024	**0.36**	<0.024
Dibenzo(a,h)anthracene	**2.0**	<0.028	<0.024	<0.024	**0.074**	<0.024
Fluoranthene	**12**	**0.10**	<0.024	<0.024	**0.40**	**0.030**
Fluorene	<0.47	<0.028	<0.024	<0.024	<0.021	<0.024
Indeno(1,2,3-c,d)pyrene	**9.2**	**0.11**	<0.024	<0.024	**0.37**	**0.029**
1-Methylnaphthalene	<0.47	<0.028	<0.024	<0.024	<0.021	<0.024
2-Methylnaphthalene	**0.49**	<0.028	<0.024	<0.024	<0.021	<0.024
Naphthalene	**1.2**	<0.028	<0.024	<0.024	**0.069**	<0.024
Phenanthrene	**4.6**	<0.028	<0.024	<0.024	**0.19**	<0.024
Pyrene	**23**	**0.14**	<0.024	<0.024	**0.75**	**0.031**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Boring ID	SB05	SB05	SB08	SB08	SB08	SB09
Sample Depth Interval (ft bgs)	25.0-27.0	36.0-38.0	3.0-5.0	14.0-16.0	17.0-19.0	1.0-5.0
Sample ID	SB05-25.0-27.0	SB05-36.0-38.0	SB08-3.0-5.0	SB08-14.0-16.0	SB08-17.0-19.0	SB09-1.0-5.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.026	<0.025	<0.022	<0.025	<0.023	<0.021
Acenaphthylene	<0.026	<0.025	**0.042**	<0.025	<0.023	<0.021
Anthracene	<0.026	<0.025	**0.025**	<0.025	<0.023	<0.021
Benzo(a)anthracene	<0.026	<0.025	**0.068**	**0.034**	<0.023	<0.021
Benzo(a)pyrene	<0.026	<0.025	**0.11**	**0.10**	<0.023	**0.028**
Benzo(b)fluoranthene	<0.026	<0.025	**0.080**	**0.082**	<0.023	**0.025**
Benzo(g,h,i)perylene	<0.026	<0.025	**0.16**	**0.096**	<0.023	**0.033**
Benzo(k)fluoranthene	<0.026	<0.025	**0.074**	**0.058**	<0.023	<0.021
Chrysene	<0.026	<0.025	**0.083**	**0.030**	<0.023	**0.022**
Dibenzo(a,h)anthracene	<0.026	<0.025	**0.023**	<0.025	<0.023	<0.021
Fluoranthene	<0.026	<0.025	**0.082**	**0.045**	<0.023	**0.022**
Fluorene	<0.026	<0.025	<0.022	<0.025	<0.023	<0.021
Indeno(1,2,3-c,d)pyrene	<0.026	<0.025	**0.10**	**0.068**	<0.023	<0.021
1-Methylnaphthalene	<0.026	<0.025	<0.022	<0.025	<0.023	<0.021
2-Methylnaphthalene	<0.026	<0.025	<0.022	<0.025	<0.023	<0.021
Naphthalene	<0.026	<0.025	<0.022	<0.025	<0.023	<0.021
Phenanthrene	<0.026	<0.025	**0.042**	<0.025	<0.023	<0.021
Pyrene	<0.026	<0.025	**0.13**	**0.092**	<0.023	**0.033**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
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at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 7
Summary of Soil Sample Analytical Results
PAHs

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB09	SB09	SB09	SB09	SB10	SB10
Sample Depth Interval (ft bgs)	13.0-16.0	18.5-20.0	21.0-22.0	32.0-33.5	4.0-5.0	7.5-9.0
Sample ID	SB09-13.0-16.0	SB09-18.5-20.0	SB09-21.0-22.0	SB09-32.0-33.5	SB10-4.0-5.0	SB10-7.5-9.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/19/10	12/19/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
Acenaphthylene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
Anthracene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
Benzo(a)anthracene	<0.025	<0.025	<0.025	<0.024	<0.022	**0.031**
Benzo(a)pyrene	<0.025	<0.025	**0.029**	<0.024	**0.024**	**0.044**
Benzo(b)fluoranthene	<0.025	<0.025	<0.025	<0.024	<0.022	**0.035**
Benzo(g,h,i)perylene	<0.025	<0.025	**0.029**	<0.024	<0.022	**0.029**
Benzo(k)fluoranthene	<0.025	<0.025	**0.026**	<0.024	<0.022	**0.034**
Chrysene	<0.025	<0.025	**0.029**	<0.024	<0.022	**0.042**
Dibenzo(a,h)anthracene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
Fluoranthene	<0.025	<0.025	**0.080**	<0.024	**0.024**	**0.047**
Fluorene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
Indeno(1,2,3-c,d)pyrene	<0.025	<0.025	<0.025	<0.024	<0.022	**0.024**
1-Methylnaphthalene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
2-Methylnaphthalene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
Naphthalene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
Phenanthrene	<0.025	<0.025	<0.025	<0.024	<0.022	<0.023
Pyrene	**0.035**	**0.051**	**0.10**	<0.024	**0.031**	**0.057**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 7
Summary of Soil Sample Analytical Results
PAHs

Boring ID	SB10	SB10	SB10	SB11	SB11	SB11
Sample Depth Interval (ft bgs)	20.0-22.0	24.0-25.5	32.0-33.0	5.0-7.0	9.5-10.1	18.0-20.0
Sample ID	SB10-20.0-22.0	SB10-24.0-25.5	SB10-32.0-33.0	SB11-5.0-7.0	SB11-9.5-10.0	SB11-18.0-20.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.025	<0.025	<0.024	<0.022	<0.023	<0.026
Acenaphthylene	<0.025	<0.025	<0.024	**0.033**	<0.023	<0.026
Anthracene	<0.025	<0.025	<0.024	<0.022	<0.023	<0.026
Benzo(a)anthracene	**0.031**	**0.11**	<0.024	**0.068**	**0.031**	**0.028**
Benzo(a)pyrene	**0.025**	**0.034**	<0.024	**0.10**	**0.044**	**0.053**
Benzo(b)fluoranthene	**0.030**	**0.045**	<0.024	**0.083**	**0.043**	**0.062**
Benzo(g,h,i)perylene	<0.025	<0.025	<0.024	**0.088**	**0.036**	<0.026
Benzo(k)fluoranthene	**0.027**	**0.037**	<0.024	**0.077**	<0.023	**0.052**
Chrysene	**0.036**	**0.099**	<0.024	**0.091**	**0.042**	**0.040**
Dibenzo(a,h)anthracene	<0.025	<0.025	<0.024	<0.022	<0.023	<0.026
Fluoranthene	**0.052**	**0.74**	<0.024	**0.084**	**0.037**	**0.056**
Fluorene	<0.025	<0.025	<0.024	<0.022	<0.023	<0.026
Indeno(1,2,3-c,d)pyrene	<0.025	<0.025	<0.024	**0.065**	**0.024**	<0.026
1-Methylnaphthalene	<0.025	<0.025	<0.024	<0.022	<0.023	<0.026
2-Methylnaphthalene	<0.025	<0.025	<0.024	<0.022	<0.023	<0.026
Naphthalene	<0.025	<0.025	<0.024	<0.022	<0.023	<0.026
Phenanthrene	<0.025	<0.025	<0.024	**0.024**	<0.023	<0.026
Pyrene	**0.13**	**0.68**	<0.024	**0.12**	**0.053**	**0.23**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 7
Summary of Soil Sample Analytical Results
PAHs

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB13	SB13	SB13	SB14	SB14	SB14
Sample Depth Interval (ft bgs)	1.0-3.5	14.0-16.0	19.0-23.0	3.0-5.0	12.5-14.0	15.0-16.5
Sample ID	SB13-1.0-3.5	SB13-14.0-16.0	SB13-19.0-23.0	SB14-3.0-5.0	SB14-12.5-14.0	SB14-15.0-16.5
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.022	<0.025	<0.023	<0.022	<0.026	<0.026
Acenaphthylene	**0.048**	<0.025	<0.023	<0.022	<0.026	<0.026
Anthracene	**0.043**	<0.025	<0.023	<0.022	<0.026	<0.026
Benzo(a)anthracene	**0.072**	**0.026**	<0.023	<0.022	**0.076**	<0.026
Benzo(a)pyrene	**0.078**	**0.059**	<0.023	<0.022	**0.15**	<0.026
Benzo(b)fluoranthene	**0.072**	**0.041**	<0.023	<0.022	**0.11**	<0.026
Benzo(g,h,i)perylene	**0.17**	**0.049**	<0.023	<0.022	**0.12**	<0.026
Benzo(k)fluoranthene	**0.057**	**0.037**	<0.023	<0.022	**0.088**	<0.026
Chrysene	**0.10**	**0.027**	<0.023	<0.022	**0.086**	<0.026
Dibenzo(a,h)anthracene	<0.022	<0.025	<0.023	<0.022	<0.026	<0.026
Fluoranthene	**0.13**	**0.046**	<0.023	<0.022	**0.17**	<0.026
Fluorene	<0.022	<0.025	<0.023	<0.022	<0.026	<0.026
Indeno(1,2,3-c,d)pyrene	**0.057**	**0.037**	<0.023	<0.022	**0.089**	<0.026
1-Methylnaphthalene	<0.022	<0.025	<0.023	<0.022	<0.026	<0.026
2-Methylnaphthalene	<0.022	<0.025	<0.023	<0.022	<0.026	<0.026
Naphthalene	<0.022	**0.052**	<0.023	<0.022	<0.026	<0.026
Phenanthrene	**0.10**	<0.025	<0.023	<0.022	<0.026	<0.026
Pyrene	**0.17**	**0.12**	<0.023	<0.022	**0.33**	<0.026

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 7
Summary of Soil Sample Analytical Results
PAHs

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB14	SB15	SB15	SB15	SB16	SB16
Sample Depth Interval (ft bgs)	16.5-17.5	3.0-5.0	12.0-14.0	16.0-18.0	4.0-6.0	16.0-18.0
Sample ID	SB14-16.5-17.5	SB15-3.0-5.0	SB15-12.0-14.0	SB15-16.0-18.0	SB16-4.0-6.0	SB16-16.0-18.0
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.026	<0.020	<0.025	<0.024	<0.022	<0.024
Acenaphthylene	**0.029**	<0.020	<0.025	<0.024	<0.022	<0.024
Anthracene	<0.026	<0.020	<0.025	<0.024	<0.022	<0.024
Benzo(a)anthracene	**0.12**	<0.020	<0.025	<0.024	<0.022	<0.024
Benzo(a)pyrene	**0.24**	<0.020	<0.025	**0.035**	<0.022	<0.024
Benzo(b)fluoranthene	**0.16**	<0.020	<0.025	**0.036**	<0.022	<0.024
Benzo(g,h,i)perylene	**0.19**	<0.020	<0.025	**0.029**	<0.022	<0.024
Benzo(k)fluoranthene	**0.15**	<0.020	<0.025	<0.024	<0.022	<0.024
Chrysene	**0.14**	<0.020	<0.025	<0.024	<0.022	<0.024
Dibenzo(a,h)anthracene	<0.026	<0.020	<0.025	<0.024	<0.022	<0.024
Fluoranthene	**0.25**	<0.020	<0.025	**0.030**	<0.022	**0.025**
Fluorene	<0.026	<0.020	<0.025	<0.024	<0.022	<0.024
Indeno(1,2,3-c,d)pyrene	**0.14**	<0.020	<0.025	<0.024	<0.022	<0.024
1-Methylnaphthalene	<0.026	<0.020	<0.025	<0.024	<0.022	<0.024
2-Methylnaphthalene	<0.026	<0.020	<0.025	<0.024	<0.022	<0.024
Naphthalene	<0.026	<0.020	<0.025	<0.024	<0.022	<0.024
Phenanthrene	**0.026**	<0.020	<0.025	<0.024	<0.022	<0.024
Pyrene	**0.45**	<0.020	<0.025	**0.055**	<0.022	**0.042**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
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at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 7
Summary of Soil Sample Analytical Results
PAHs

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB18	SB18	SB18	SB18	SB18	SB18
Sample Depth Interval (ft bgs)	1.0-3.0	3.0-5.0	8.0-9.0	12.0-13.5	22.0-24.0	27.5-29.0
Sample ID	SB18-1.0-3.0	SB18-3.0-5.0	SB18-8.0-9.0	SB18-12.0-13.5	SB18-22.0-24.0	SB18-27.5-29.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	**0.58**	**0.85**	<0.11	<0.11	<0.023	<0.025
Acenaphthylene	<0.22	**0.55**	**0.20**	<0.11	<0.023	<0.025
Anthracene	**0.39**	**1.7**	**0.23**	<0.11	<0.023	<0.025
Benzo(a)anthracene	**0.60**	**2.7**	**0.60**	**0.18**	<0.023	<0.025
Benzo(a)pyrene	**0.65**	**2.6**	**0.66**	**0.18**	<0.023	<0.025
Benzo(b)fluoranthene	**0.36**	**1.1**	**0.52**	<0.11	<0.023	<0.025
Benzo(g,h,i)perylene	**0.60**	**1.7**	**0.55**	**0.16**	<0.023	<0.025
Benzo(k)fluoranthene	**0.25**	<0.46	**0.35**	<0.11	<0.023	<0.025
Chrysene	**1.1**	**5.1**	**0.85**	**0.30**	<0.023	<0.025
Dibenzo(a,h)anthracene	<0.22	<0.46	<0.11	<0.11	<0.023	<0.025
Fluoranthene	**0.56**	**1.9**	**1.0**	**0.18**	<0.023	<0.025
Fluorene	**0.56**	<0.46	<0.11	<0.11	<0.023	<0.025
Indeno(1,2,3-c,d)pyrene	**0.34**	**0.60**	**0.36**	<0.11	<0.023	<0.025
1-Methylnaphthalene	**3.5**	**0.52**	**0.25**	<0.11	<0.023	<0.025
2-Methylnaphthalene	**0.44**	<0.46	<0.11	<0.11	<0.023	<0.025
Naphthalene	<0.22	<0.46	**0.11**	<0.11	<0.023	<0.025
Phenanthrene	**2.1**	**7.9**	**1.8**	**0.56**	<0.023	<0.025
Pyrene	**1.8**	**10**	**2.1**	**0.83**	<0.023	<0.025

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
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at or above the indicated detection limit.

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Table 7
Summary of Soil Sample Analytical Results
PAHs

Boring ID	SB19	SB19	SB19	SB21	SB21	SB21
Sample Depth Interval (ft bgs)	15.5-16.0	18.0-20.0	22.0-25.0	3.0-5.0	13.0-14.5	20.5-22.0
Sample ID	SB19-15.5-16.0	SB19-18.0-20.0	SB19-22.0-25.0	SB21-3.0-5.0	SB21-13.0-14.5	SB21-20.5-22.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.024	<0.025	<0.025	<0.023	<0.025	<0.024
Acenaphthylene	<0.024	<0.025	<0.025	**0.075**	<0.025	<0.024
Anthracene	<0.024	<0.025	<0.025	**0.049**	<0.025	<0.024
Benzo(a)anthracene	**0.059**	<0.025	<0.025	**0.16**	<0.025	<0.024
Benzo(a)pyrene	**0.064**	<0.025	<0.025	**0.28**	**0.063**	<0.024
Benzo(b)fluoranthene	**0.035**	<0.025	<0.025	**0.22**	**0.050**	<0.024
Benzo(g,h,i)perylene	**0.034**	<0.025	<0.025	**0.36**	**0.068**	<0.024
Benzo(k)fluoranthene	**0.049**	<0.025	<0.025	**0.17**	**0.037**	<0.024
Chrysene	**0.072**	<0.025	<0.025	**0.21**	**0.026**	<0.024
Dibenzo(a,h)anthracene	<0.024	<0.025	<0.025	**0.039**	<0.025	<0.024
Fluoranthene	**0.082**	<0.025	<0.025	**0.30**	**0.040**	<0.024
Fluorene	<0.024	<0.025	**0.031**	<0.023	<0.025	<0.024
Indeno(1,2,3-c,d)pyrene	**0.029**	<0.025	<0.025	**0.24**	**0.047**	<0.024
1-Methylnaphthalene	<0.024	<0.025	<0.025	<0.023	<0.025	<0.024
2-Methylnaphthalene	<0.024	<0.025	<0.025	<0.023	<0.025	<0.024
Naphthalene	<0.024	<0.025	<0.025	**0.028**	<0.025	<0.024
Phenanthrene	<0.024	<0.025	<0.025	**0.17**	<0.025	<0.024
Pyrene	**0.11**	<0.025	**0.027**	**0.45**	**0.060**	<0.024

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
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at or above the indicated detection limit.

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Boring ID	SB21	SB22	SB22	SB22	SB22	SB26
Sample Depth Interval (ft bgs)	28.0-30.0	4.0-6.0	9.5-10.5	16.0-18.0	21.0-23.0	2.0-4.0
Sample ID	SB21-28.0-30.0	SB22-4.0-6.0	SB22-9.5-10.5	SB22-16.0-18.0	SB22-21.0-23.0	SB26-2.5-4.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/19/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.023	<0.022	<0.025	<0.024	<0.024	<0.021
Acenaphthylene	<0.023	**0.032**	<0.025	<0.024	<0.024	<0.021
Anthracene	<0.023	<0.022	<0.025	<0.024	<0.024	<0.021
Benzo(a)anthracene	<0.023	**0.068**	<0.025	<0.024	<0.024	**0.043**
Benzo(a)pyrene	<0.023	**0.10**	<0.025	<0.024	<0.024	**0.072**
Benzo(b)fluoranthene	<0.023	**0.054**	<0.025	<0.024	<0.024	**0.063**
Benzo(g,h,i)perylene	<0.023	**0.081**	<0.025	<0.024	<0.024	**0.073**
Benzo(k)fluoranthene	<0.023	**0.083**	<0.025	<0.024	<0.024	**0.044**
Chrysene	<0.023	**0.096**	<0.025	<0.024	<0.024	0.059
Dibenzo(a,h)anthracene	<0.023	<0.022	<0.025	<0.024	<0.024	<0.021
Fluoranthene	<0.023	**0.094**	<0.025	<0.024	<0.024	**0.16**
Fluorene	<0.023	<0.022	<0.025	<0.024	<0.024	<0.021
Indeno(1,2,3-c,d)pyrene	<0.023	**0.064**	<0.025	<0.024	<0.024	**0.049**
1-Methylnaphthalene	<0.023	<0.022	<0.025	<0.024	<0.024	<0.021
2-Methylnaphthalene	<0.023	<0.022	<0.025	<0.024	<0.024	<0.021
Naphthalene	<0.023	<0.022	<0.025	<0.024	<0.024	<0.021
Phenanthrene	<0.023	<0.022	<0.025	<0.024	<0.024	**0.056**
Pyrene	<0.023	**0.12**	<0.025	**0.025**	<0.024	**0.14**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 7
Summary of Soil Sample Analytical Results
PAHs

Boring ID	SB26	SB26	SB26	SB28	SB28	SB28
Sample Depth Interval (ft bgs)	8.0-10.0	14.0-16.0	24.0-26.0	3.0-5.0	15.5-17.0	19.5-21.5
Sample ID	SB26-8.0-10.0	SB26-14.0-16.0	SB26-24.0-26.0	SB28-3.0-5.0	SB28-15.5-17.0	SB28-19.5-21.5
Sample Date	12/19/10	12/19/10	12/19/10	12/20/10	12/20/10	12/20/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Acenaphthylene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Anthracene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Benzo(a)anthracene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Benzo(a)pyrene	<0.024	**0.072**	<0.023	<0.021	<0.024	<0.025
Benzo(b)fluoranthene	<0.024	**0.052**	<0.023	<0.021	<0.024	<0.025
Benzo(g,h,i)perylene	<0.024	**0.063**	<0.023	<0.021	<0.024	<0.025
Benzo(k)fluoranthene	<0.024	**0.036**	<0.023	<0.021	<0.024	<0.025
Chrysene	<0.024	**0.025**	<0.023	<0.021	<0.024	<0.025
Dibenzo(a,h)anthracene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Fluoranthene	0.024	**0.083**	<0.023	**0.026**	<0.024	<0.025
Fluorene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Indeno(1,2,3-c,d)pyrene	<0.024	**0.049**	<0.023	<0.021	<0.024	<0.025
1-Methylnaphthalene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
2-Methylnaphthalene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Naphthalene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Phenanthrene	<0.024	<0.025	<0.023	<0.021	<0.024	<0.025
Pyrene	0.026	**0.074**	<0.023	**0.026**	<0.024	<0.025

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 7
Summary of Soil Sample Analytical Results
PAHs

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB28	SB29	SB29	SB29	SB29	SB29
Sample Depth Interval (ft bgs)	23.0-25.0	1.0-3.0	3.0-5.0	13.0-15.5	16.5-17.0	21.0-24.0
Sample ID	SB28-23.0-25.0	SB29-1.0-3.0	SB29-3.0-5.0	SB29-13.0-15.5	SB29-16.5-17.0	SB29-21.0-24.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.023	<0.23	<0.022	<0.026	<0.045	<0.024
Acenaphthylene	<0.023	<0.23	**0.050**	<0.026	**0.065**	<0.024
Anthracene	<0.023	<0.23	<0.022	<0.026	<0.045	<0.024
Benzo(a)anthracene	<0.023	<0.23	**0.054**	**0.032**	**0.093**	<0.024
Benzo(a)pyrene	<0.023	**0.39**	**0.18**	**0.089**	**0.32**	<0.024
Benzo(b)fluoranthene	<0.023	**0.27**	**0.10**	**0.059**	**0.21**	<0.024
Benzo(g,h,i)perylene	<0.023	**0.60**	**0.17**	**0.077**	**0.24**	<0.024
Benzo(k)fluoranthene	<0.023	<0.23	**0.097**	**0.058**	**0.14**	<0.024
Chrysene	<0.023	**0.32**	**0.077**	**0.040**	**0.18**	<0.024
Dibenzo(a,h)anthracene	<0.023	<0.23	**0.022**	<0.026	<0.045	<0.024
Fluoranthene	<0.023	<0.23	**0.047**	**0.066**	**0.058**	<0.024
Fluorene	<0.023	<0.23	<0.022	<0.026	<0.045	<0.024
Indeno(1,2,3-c,d)pyrene	<0.023	<0.23	**0.11**	**0.058**	**0.16**	<0.024
1-Methylnaphthalene	<0.023	<0.23	<0.022	<0.026	<0.045	<0.024
2-Methylnaphthalene	<0.023	<0.23	<0.022	<0.026	<0.045	<0.024
Naphthalene	<0.023	<0.23	<0.022	<0.026	<0.045	<0.024
Phenanthrene	<0.023	<0.23	<0.022	<0.026	<0.045	<0.024
Pyrene	<0.023	**0.38**	**0.11**	**0.19**	**0.21**	<0.024

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 7
Summary of Soil Sample Analytical Results
PAHs

Boring ID	SB29	SB30	SB30	SB30	SB30	SB31
Sample Depth Interval (ft bgs)	25.0-26.5	3.0-5.0	13.0-15.0	18.0-20.0	26.0-28.0	3.0-5.0
Sample ID	SB29-25.0-26.5	SB30-3.0-5.0	SB30-13.0-15.0	SB30-18.0-20.0	SB30-26.0-28.0	SB31-3.0-5.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/21/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Acenaphthylene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Anthracene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Benzo(a)anthracene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Benzo(a)pyrene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Benzo(b)fluoranthene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Benzo(g,h,i)perylene	<0.023	<0.021	<0.022	<0.023	<0.025	**0.023**
Benzo(k)fluoranthene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Chrysene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Dibenzo(a,h)anthracene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Fluoranthene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Fluorene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Indeno(1,2,3-c,d)pyrene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
1-Methylnaphthalene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
2-Methylnaphthalene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Naphthalene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Phenanthrene	<0.023	<0.021	<0.022	<0.023	<0.025	<0.022
Pyrene	<0.023	<0.021	<0.022	<0.023	<0.025	**0.025**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Boring ID	SB31	SB31	SB31	SB32	SB32	SB32
Sample Depth Interval (ft bgs)	24.5-25.5	26.0-30.0	30.0-34.0	4.0-5.0	12.0-15.0	15.0-16.0
Sample ID	SB31-24.5-25.5	SB31-26.0-30.0	SB31-30.0-34.0	SB32-4.0-5.0	SB32-12.0-15.0	SB32-15.0-16.0
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.025	<0.024	<0.026	<0.022	<1.2	<0.48
Acenaphthylene	<0.025	<0.024	<0.026	**0.026**	**2.6**	<0.48
Anthracene	<0.025	<0.024	<0.026	<0.022	**2.7**	<0.48
Benzo(a)anthracene	<0.025	<0.024	<0.026	**0.060**	**11**	**1.6**
Benzo(a)pyrene	<0.025	<0.024	<0.026	**0.10**	**14**	**2.2**
Benzo(b)fluoranthene	<0.025	<0.024	<0.026	**0.075**	**7.8**	**1.4**
Benzo(g,h,i)perylene	<0.025	<0.024	<0.026	**0.11**	**10**	**1.6**
Benzo(k)fluoranthene	<0.025	<0.024	<0.026	**0.080**	**11**	**1.7**
Chrysene	<0.025	<0.024	<0.026	**0.082**	**14**	**1.7**
Dibenzo(a,h)anthracene	<0.025	<0.024	<0.026	<0.022	**1.4**	<0.48
Fluoranthene	<0.025	<0.024	<0.026	**0.094**	**23**	**3.6**
Fluorene	<0.025	<0.024	<0.026	<0.022	<1.2	<0.48
Indeno(1,2,3-c,d)pyrene	<0.025	<0.024	<0.026	**0.080**	**7.4**	**1.2**
1-Methylnaphthalene	<0.025	<0.024	<0.026	<0.022	<1.2	<0.48
2-Methylnaphthalene	<0.025	<0.024	<0.026	<0.022	<1.2	<0.48
Naphthalene	<0.025	<0.024	<0.026	<0.022	**2.6**	<0.48
Phenanthrene	<0.025	<0.024	<0.026	**0.049**	**12**	<0.48
Pyrene	<0.025	<0.024	<0.026	**0.15**	**40**	**6.7**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Boring ID	SB32	SB33	SB33	SB33	SB33	SB34
Sample Depth Interval (ft bgs)	28.0-30.0	1.0-3.0	15.5-16.5	25.0-27.0	37.0-39.0	1.0-3.0
Sample ID	SB32-28.0-30.0	SB33-1.0-3.0	SB33-15.5-16.5	SB33-25.0-27.0	SB33-37.0-39.0	SB34-1.0-3.0
Sample Date	12/21/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.024	<0.022	<0.025	<0.025	<0.023	<0.21
Acenaphthylene	<0.024	<0.022	<0.025	<0.025	<0.023	**0.94**
Anthracene	<0.024	<0.022	<0.025	<0.025	<0.023	**0.41**
Benzo(a)anthracene	<0.024	**0.034**	<0.025	<0.025	<0.023	**1.9**
Benzo(a)pyrene	<0.024	**0.096**	<0.025	<0.025	<0.023	**2.9**
Benzo(b)fluoranthene	<0.024	**0.078**	<0.025	<0.025	<0.023	**1.9**
Benzo(g,h,i)perylene	<0.024	**0.12**	<0.025	<0.025	<0.023	**2.9**
Benzo(k)fluoranthene	<0.024	**0.041**	<0.025	<0.025	<0.023	**2.2**
Chrysene	<0.024	**0.054**	<0.025	<0.025	<0.023	**2.6**
Dibenzo(a,h)anthracene	<0.024	<0.022	<0.025	<0.025	<0.023	**0.36**
Fluoranthene	<0.024	**0.10**	<0.025	<0.025	<0.023	**2.1**
Fluorene	<0.024	<0.022	<0.025	<0.025	<0.023	<0.21
Indeno(1,2,3-c,d)pyrene	<0.024	**0.079**	<0.025	<0.025	<0.023	**2.0**
1-Methylnaphthalene	<0.024	<0.022	<0.025	<0.025	<0.023	<0.21
2-Methylnaphthalene	<0.024	<0.022	<0.025	<0.025	<0 023	<0.21
Naphthalene	<0.024	<0.022	<0.025	<0.025	<0.023	**0.36**
Phenanthrene	<0.024	**0.033**	<0.025	<0.025	<0.023	**0.70**
Pyrene	<0.024	**0.14**	<0.025	**0.026**	<0.023	**4.7**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
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at or above the indicated detection limit.

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Table 7
Summary of Soil Sample Analytical Results
PAHs

Boring ID	SB34	SB34	SB35	SB35	SB35	SB36
Sample Depth Interval (ft bgs)	14.0-16.0	24.0-26.0	1.0-3.0	7.0-8.5	14.0-18.0	1.0-4.0
Sample ID	SB34-14.0-16.0	SB34-24.0-26.0	SB35-1.0-3.0	SB35-7.0-8.5	SB35-14.0-18.0	SB36-1.0-4.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.025	<0.024	<0.21	<0.022	<0.025	<0.21
Acenaphthylene	<0.025	<0.024	**0.44**	**0.044**	<0.025	**1.5**
Anthracene	<0.025	<0.024	**0.23**	<0.022	<0.025	**0.94**
Benzo(a)anthracene	**0.033**	<0.024	**0.69**	**0.10**	**0.045**	**3.1**
Benzo(a)pyrene	**0.11**	<0.024	**1.1**	**0.18**	**0.12**	**5.4**
Benzo(b)fluoranthene	**0.092**	<0.024	**0.84**	**0.17**	**0.11**	**3.8**
Benzo(g,h,i)perylene	**0.094**	<0.024	**1.4**	**0.17**	**0.10**	**5.3**
Benzo(k)fluoranthene	**0.062**	<0.024	**0.84**	**0.086**	**0.060**	**3.7**
Chrysene	**0.040**	<0.024	**0.98**	**0.15**	**0.049**	**4.3**
Dibenzo(a,h)anthracene	<0.025	<0.024	<0.21	<0.022	<0.025	**0.67**
Fluoranthene	**0.063**	<0.024	**1.1**	**0.17**	**0.075**	**7.1**
Fluorene	<0.025	<0.024	<0.21	<0.022	<0.025	<0.21
Indeno(1,2,3-c,d)pyrene	**0.067**	<0.024	**0.95**	**0.12**	**0.073**	**3.7**
1-Methylnaphthalene	<0.025	<0.024	<0.21	<0.022	<0.025	<0.21
2-Methylnaphthalene	<0.025	<0.024	<0.21	<0.022	<0.025	<0.21
Naphthalene	<0.025	<0.024	<0.21	<0.022	<0.025	**0.63**
Phenanthrene	<0.025	<0.024	**0.56**	**0.10**	<0.025	**3.2**
Pyrene	**0.12**	<0.024	**1.8**	**0.28**	**0.18**	**10**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Boring ID	SB36	SB36	SB36	SB37	SB37	SB37
Sample Depth Interval (ft bgs)	7.0-9.0	24.0-25.0	35.0-36.5	1.0-3.0	10.0-12.0	13.0-15.0
Sample ID	SB36-7.0-9.0	SB36-24.0-25.0	SB36-35.0-36.5	SB37-1.0-3.0	SB37-10.0-12.0	SB37-13.0-15.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.023	<0.024	<0.023	<0.021	<0.025	<0.026
Acenaphthylene	**0.084**	<0.024	<0.023	**0.23**	<0.025	<0.026
Anthracene	**0.041**	<0.024	<0.023	**0.096**	<0.025	<0.026
Benzo(a)anthracene	**0.12**	<0.024	<0.023	**0.30**	**0.027**	<0.026
Benzo(a)pyrene	**0.23**	<0.024	<0.023	**0.59**	**0.080**	**0.048**
Benzo(b)fluoranthene	**0.17**	<0.024	<0.023	**0.44**	**0.064**	**0.037**
Benzo(g,h,i)perylene	**0.25**	<0.024	<0.023	**0.61**	**0.068**	**0.043**
Benzo(k)fluoranthene	**0.16**	<0.024	<0.023	**0.35**	**0.045**	**0.028**
Chrysene	**0.18**	<0.024	<0.023	**0.43**	**0.033**	<0.026
Dibenzo(a,h)anthracene	**0.029**	<0.024	<0.023	**0.082**	<0.025	<0.026
Fluoranthene	**0.22**	**0.040**	<0.023	**0.40**	**0.057**	**0.045**
Fluorene	<0.023	<0.024	<0.023	<0.021	<0.025	<0.026
Indeno(1,2,3-c,d)pyrene	**0.18**	<0.024	<0.023	**0.42**	**0.046**	**0.028**
1-Methylnaphthalene	<0.023	<0.024	<0.023	<0.021	<0.025	<0.026
2-Methylnaphthalene	<0.023	<0.024	<0.023	**0.027**	<0.025	<0.026
Naphthalene	**0.034**	<0.024	<0.023	**0.074**	<0.025	<0.026
Phenanthrene	**0.10**	<0.024	<0.023	**0.19**	<0.025	<0.026
Pyrene	**0.38**	**0.059**	<0.023	**0.76**	**0.083**	**0.053**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 7
Summary of Soil Sample Analytical Results
PAHs

Boring ID	SB38	SB38	SB38	SB40	SB40	SB40
Sample Depth Interval (ft bgs)	1.0-3.0	10.0-12.0	30.0-32.0	2.0-3.0	5.0-6.5	10.0-11.5
Sample ID	SB38-1.0-3.0	SB38-10.0-12.0	SB38-30.0-32.0	SB40-2.0-3.0	SB40-5.0-6.5	SB40-10.0-11.5
Sample Date	12/21/10	12/21/10	12/21/10	12/20/10	12/20/10	12/20/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.46	<0.024	<0.024	<0.045	<0.022	<0.024
Acenaphthylene	**2.1**	<0.024	<0.024	<0.045	<0.022	<0.024
Anthracene	**1.9**	<0.024	<0.024	<0.045	<0.022	<0.024
Benzo(a)anthracene	**5.8**	<0.024	<0.024	**0.081**	**0.033**	**0.047**
Benzo(a)pyrene	**11**	<0.024	<0.024	**0.087**	**0.033**	**0.044**
Benzo(b)fluoranthene	**5.8**	<0.024	<0.024	**0.081**	**0.023**	**0.026**
Benzo(g,h,i)perylene	**7.8**	<0.024	<0.024	**0.097**	**0.024**	**<0.024**
Benzo(k)fluoranthene	**6.5**	<0.024	<0.024	**0.072**	**0.027**	**0.037**
Chrysene	**7.6**	<0.024	<0.024	**0.10**	**0.041**	**0.052**
Dibenzo(a,h)anthracene	**1.1**	<0.024	<0.024	<0.045	<0.022	<0.024
Fluoranthene	**12**	<0.024	<0.024	**0.12**	**0.070**	**0.079**
Fluorene	**0.59**	<0.024	<0.024	<0.045	<0.022	<0.024
Indeno(1,2,3-c,d)pyrene	**5.7**	<0.024	<0.024	**0.062**	<0.022	<0.024
1-Methylnaphthalene	**0.68**	<0.024	<0.024	<0.045	<0.022	<0.024
2-Methylnaphthalene	**0.47**	<0.024	<0.024	<0.045	<0.022	<0.024
Naphthalene	**1.5**	<0.024	<0.024	<0.045	<0.022	<0.024
Phenanthrene	**8.3**	<0.024	<0.024	**0.068**	**0.059**	<0.024
Pyrene	**23**	<0.024	<0.024	**0.14**	**0.082**	**0.090**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

February 28, 2011
Revised May 24, 2011
Project No, 106942001

Boring ID	SB01	SB01	SB01	SB02	SB02	SB02
Sample Depth Interval (ft bgs)	2.0-4.0	12.5-13.0	33.0-35.0	1.0-3.0	14.0-16.0	34.0-36.0
Sample ID	SB01-2.0-4.0	SB01-12.5-13.0	SB01-33.0-35.0	SB02-1.0-3.0	SB02-14.0-16.0	SB02-34.0-36.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	*8082/8082M*	*8082/8082M*	*8082/8082M*	*8082/8082M*	*8082/8082M*	*8082/8082M*
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<53	<68	<60	<57	<66	<60
Aroclor 1221	<53	<68	<60	<57	<66	<60
Aroclor 1232	<53	<68	<60	<57	<66	<60
Aroclor 1242	<53	<68	<60	<57	<66	<60
Aroclor 1248	<53	<68	<60	<57	<66	<60
Aroclor 1254	<53	<68	<60	<57	<66	<60
Aroclor 1260	<53	<68	<60	<57	<66	<60
Aroclor 1262	<53	<68	<60	<57	<66	<60
Aroclor 5460	<53	<68	<60	<57	<66	<60

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Boring ID	SB03	SB03	SB03	SB03	SB05	SB05
Sample Depth Interval (ft bgs)	1.0-1.5	14.0-16.0	21.0-23.0	34.0-36.0	2.0-4.0	12.0-14.0
Sample ID	SB03-1.0-1.5	SB03-14.0-16.0	SB03-21.0-23.0	SB03-34.0-36.0	SB05-2.0-4.0	SB05-12.0-14.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<58	<71	<59	<59	<53	<59
Aroclor 1221	<58	<71	<59	<59	<53	<59
Aroclor 1232	<58	<71	<59	<59	<53	<59
Aroclor 1242	<58	<71	<59	<59	<53	<59
Aroclor 1248	<58	<71	<59	<59	<53	<59
Aroclor 1254	<58	<71	<59	<59	<53	<59
Aroclor 1260	<58	<71	<59	<59	<53	<59
Aroclor 1262	<58	<71	<59	<59	<53	<59
Aroclor 5460	<58	<71	<59	<59	<53	<59

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 8
Summary of Soil Sample Analytical Results
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Boring ID	SB05	SB05	SB08	SB08	SB08	SB09
Sample Depth Interval (ft bgs)	25.0-27.0	36.0-38.0	3.0-5.0	14.0-16.0	17.0-19.0	1.0-5.0
Sample ID	SB05-25.0-27.0	SB05-36.0-38.0	SB08-3.0-5.0	SB08-14.0-16.0	SB08-17.0-19.0	SB09-1.0-5.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<64	<61	<55	<64	<57	<53
Aroclor 1221	<64	<61	<55	<64	<57	<53
Aroclor 1232	<64	<61	<55	<64	<57	<53
Aroclor 1242	<64	<61	<55	<64	<57	<53
Aroclor 1248	<64	<61	<55	<64	<57	<53
Aroclor 1254	<64	<61	<55	<64	<57	<53
Aroclor 1260	<64	<61	<55	<64	<57	<53
Aroclor 1262	<64	<61	<55	<64	<57	<53
Aroclor 5460	<64	<61	**390**	<64	<57	<53

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

Boring ID	SB09	SB09	SB09	SB09	SB10	SB10
Sample Depth Interval (ft bgs)	13.0-16.0	18.5-20.0	21.0-22.0	32.0-33.5	4.0-5.0	7.5-9.0
Sample ID	SB09-13.0-16.0	SB09-18.5-20.0	SB09-21.0-22.0	SB09-32.0-33.5	SB10-4.0-5.0	SB10-7.5-9.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/19/10	12/19/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<62	<62	<62	<59	<55	<57
Aroclor 1221	<62	<62	<62	<59	<55	<57
Aroclor 1232	<62	<62	<62	<59	<55	<57
Aroclor 1242	<62	<62	<62	<59	<55	<57
Aroclor 1248	<62	<62	<62	<59	<55	<57
Aroclor 1254	<62	<62	<62	<59	<55	<57
Aroclor 1260	<62	<62	<62	<59	<55	<57
Aroclor 1262	<62	<62	<62	<59	<55	<57
Aroclor 5460	<62	<62	<62	<59	<55	<57

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 8
Summary of Soil Sample Analytical Results
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Boring ID	SB10	SB10	SB10	SB11	SB11	SB11
Sample Depth Interval (ft bgs)	20.0-22.0	24.0-25.5	32.0-33.0	5.0-7.0	9.5-10.1	18.0-20.0
Sample ID	SB10-20.0-22.0	SB10-24.0-25.5	SB10-32.0-33.0	SB11-5.0-7.0	SB11-9.5-10.0	SB11-18.0-20.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<63	<62	<60	<54	<57	<64
Aroclor 1221	<63	<62	<60	<54	<57	<64
Aroclor 1232	<63	<62	<60	<54	<57	<64
Aroclor 1242	<63	<62	<60	<54	<57	<64
Aroclor 1248	<63	<62	<60	<54	<57	<64
Aroclor 1254	<63	<62	<60	<54	<57	<64
Aroclor 1260	<63	<62	<60	<54	<57	<64
Aroclor 1262	<63	<62	<60	<54	<57	<64
Aroclor 5460	<63	<62	<60	<54	<57	<64

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Table 8
Summary of Soil Sample Analytical Results
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Boring ID	SB13	SB13	SB13	SB14	SB14	SB14
Sample Depth Interval (ft bgs)	1.0-3.5	14.0-16.0	19.0-23.0	3.0-5.0	12.5-14.0	15.0-16.5
Sample ID	SB13-1.0-3.5	SB13-14.0-16.0	SB13-19.0-23.0	SB14-3.0-5.0	SB14-12.5-14.0	SB14-15.0-16.5
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<54	<63	<58	<54	<65	<64
Aroclor 1221	<54	<63	<58	<54	<65	<64
Aroclor 1232	<54	<63	<58	<54	<65	<64
Aroclor 1242	<54	<63	<58	<54	<65	<64
Aroclor 1248	<54	<63	<58	<54	<65	<64
Aroclor 1254	<54	<63	<58	<54	<65	<64
Aroclor 1260	<54	<63	<58	<54	<65	<64
Aroclor 1262	<54	<63	<58	<54	<65	<64
Aroclor 5460	<54	<63	<58	<54	<65	<64

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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San Diego, California

Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

February 28, 2011
Revised May 24, 2011
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Boring ID	SB14	SB15	SB15	SB15	SB16	SB16
Sample Depth Interval (ft bgs)	16.5-17.5	3.0-5.0	12.0-14.0	16.0-18.0	4.0-6.0	16.0-18.0
Sample ID	SB14-16.5-17.5	SB15-3.0-5.0	SB15-12.0-14.0	SB15-16.0-18.0	SB16-4.0-6.0	SB16-16.0-18.0
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<65	<51	<63	<59	<56	<60
Aroclor 1221	<65	<51	<63	<59	<56	<60
Aroclor 1232	<65	<51	<63	<59	<56	<60
Aroclor 1242	<65	<51	<63	<59	<56	<60
Aroclor 1248	<65	<51	<63	<59	<56	<60
Aroclor 1254	<65	<51	<63	<59	<56	<60
Aroclor 1260	<65	<51	<63	<59	<56	<60
Aroclor 1262	<65	<51	<63	<59	<56	<60
Aroclor 5460	<65	<51	<63	<59	<56	<60

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

Boring ID	SB18	SB18	SB18	SB18	SB18	SB18
Sample Depth Interval (ft bgs)	1.0-3.0	3.0-5.0	8.0-9.0	12.0-13.5	22.0-24.0	27.5-29.0
Sample ID	SB18-1.0-3.0	SB18-3.0-5.0	SB18-8.0-9.0	SB18-12.0-13.5	SB18-22.0-24.0	SB18-27.5-29.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<56	<58	<56	<56	<57	<62
Aroclor 1221	<56	<58	<56	<56	<57	<62
Aroclor 1232	<56	<58	<56	<56	<57	<62
Aroclor 1242	<56	<58	<56	<56	<57	<62
Aroclor 1248	<56	<58	<56	<56	<57	<62
Aroclor 1254	**190**	**140**	<56	<56	<57	<62
Aroclor 1260	**200**	**150**	<56	<56	<57	<62
Aroclor 1262	<56	<58	<56	<56	<57	<62
Aroclor 5460	**210**	<58	**75**	<56	<57	<62

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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San Diego, California

Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

February 28, 2011
Revised May 24, 2011
Project No, 106942001

Boring ID	SB19	SB19	SB19	SB21	SB21	SB21
Sample Depth Interval (ft bgs)	15.5-16.0	18.0-20.0	22.0-25.0	3.0-5.0	13.0-14.5	20.5-22.0
Sample ID	SB19-15.5-16.0	SB19-18.0-20.0	SB19-22.0-25.0	SB21-3.0-5.0	SB21-13.0-14.5	SB21-20.5-22.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<60	<62	<62	<56	<62	<61
Aroclor 1221	<60	<62	<62	<56	<62	<61
Aroclor 1232	<60	<62	<62	<56	<62	<61
Aroclor 1242	<60	<62	<62	<56	<62	<61
Aroclor 1248	<60	<62	<62	<56	<62	<61
Aroclor 1254	<60	<62	<62	**100**	<62	<61
Aroclor 1260	<60	<62	<62	**110**	<62	<61
Aroclor 1262	<60	<62	<62	<56	<62	<61
Aroclor 5460	<60	<62	<62	**4200**	<62	<61

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Boring ID	SB21	SB22	SB22	SB22	SB22	SB26
Sample Depth Interval (ft bgs)	28.0-30.0	4.0-6.0	9.5-10.5	16.0-18.0	21.0-23.0	2.0-4.0
Sample ID	SB21-28.0-30.0	SB22-4.0-6.0	SB22-9.5-10.5	SB22-16.0-18.0	SB22-21.0-23.0	SB26-2.5-4.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/19/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<58	<55	<62	<60	<60	<53
Aroclor 1221	<58	<55	<62	<60	<60	<53
Aroclor 1232	<58	<55	<62	<60	<60	<53
Aroclor 1242	<58	<55	<62	<60	<60	<53
Aroclor 1248	<58	<55	<62	<60	<60	<53
Aroclor 1254	<58	<55	<62	<60	<60	<53
Aroclor 1260	<58	<55	<62	<60	<60	<53
Aroclor 1262	<58	<55	<62	<60	<60	<53
Aroclor 5460	<58	<55	<62	<60	<60	<53

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Boring ID	SB26	SB26	SB26	SB28	SB28	SB28
Sample Depth Interval (ft bgs)	8.0-10.0	14.0-16.0	24.0-26.0	3.0-5.0	15.5-17.0	19.5-21.5
Sample ID	SB26-8.0-10.0	SB26-14.0-16.0	SB26-24.0-26.0	SB28-3.0-5.0	SB28-15.5-17.0	SB28-19.5-21.5
Sample Date	12/19/10	12/19/10	12/19/10	12/20/10	12/20/10	12/20/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<60	<63	<58	<53	<60	<63
Aroclor 1221	<60	<63	<58	<53	<60	<63
Aroclor 1232	<60	<63	<58	<53	<60	<63
Aroclor 1242	<60	<63	<58	<53	<60	<63
Aroclor 1248	<60	<63	<58	<53	<60	<63
Aroclor 1254	<60	<63	<58	<53	<60	<63
Aroclor 1260	<60	<63	<58	<53	<60	<63
Aroclor 1262	<60	<63	<58	<53	<60	<63
Aroclor 5460	<60	<63	<58	<53	<60	<63

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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San Diego, California

Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

February 28, 2011
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Boring ID	SB28	SB29	SB29	SB29	SB29	SB29
Sample Depth Interval (ft bgs)	23.0-25.0	1.0-3.0	3.0-5.0	13.0-15.5	16.5-17.0	21.0-24.0
Sample ID	SB28-23.0-25.0	SB29-1.0-3.0	SB29-3.0-5.0	SB29-13.0-15.5	SB29-16.5-17.0	SB29-21.0-24.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<59	<58	<54	<64	<57	<59
Aroclor 1221	<59	<58	<54	<64	<57	<59
Aroclor 1232	<59	<58	<54	<64	<57	<59
Aroclor 1242	<59	<58	<54	<64	<57	<59
Aroclor 1248	<59	<58	<54	<64	<57	<59
Aroclor 1254	<59	**290**	<54	<64	<57	<59
Aroclor 1260	<59	**230**	<54	<64	<57	<59
Aroclor 1262	<59	<58	<54	<64	<57	<59
Aroclor 5460	<59	**340**	<54	<64	**78**	<59

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Boring ID	SB29	SB30	SB30	SB30	SB30	SB31
Sample Depth Interval (ft bgs)	25.0-26.5	3.0-5.0	13.0-15.0	18.0-20.0	26.0-28.0	3.0-5.0
Sample ID	SB29-25.0-26.5	SB30-3.0-5.0	SB30-13.0-15.0	SB30-18.0-20.0	SB30-26.0-28.0	SB31-3.0-5.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/21/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<57	<53	<54	<59	<62	<54
Aroclor 1221	<57	<53	<54	<59	<62	<54
Aroclor 1232	<57	<53	<54	<59	<62	<54
Aroclor 1242	<57	<53	<54	<59	<62	<54
Aroclor 1248	<57	<53	<54	<59	<62	<54
Aroclor 1254	<57	<53	<54	<59	<62	<54
Aroclor 1260	<57	<53	<54	<59	<62	<54
Aroclor 1262	<57	<53	<54	<59	<62	<54
Aroclor 5460	<57	<53	<54	<59	<62	<54

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

February 28, 2011
Revised May 24, 2011
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Boring ID	SB31	SB31	SB31	SB32	SB32	SB32
Sample Depth Interval (ft bgs)	24.5-25.5	26.0-30.0	30.0-34.0	4.0-5.0	12.0-15.0	15.0-16.0
Sample ID	SB31-24.5-25.5	SB31-26.0-30.0	SB31-30.0-34.0	SB32-4.0-5.0	SB32-12.0-15.0	SB32-15.0-16.0
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<61	<61	<64	<55	<58	<60
Aroclor 1221	<61	<61	<64	<55	<58	<60
Aroclor 1232	<61	<61	<64	<55	<58	<60
Aroclor 1242	<61	<61	<64	<55	<58	<60
Aroclor 1248	<61	<61	<64	<55	<58	<60
Aroclor 1254	<61	<61	<64	<55	<58	<60
Aroclor 1260	<61	<61	<64	<55	<58	<60
Aroclor 1262	<61	<61	<64	<55	<58	<60
Aroclor 5460	<61	<61	<64	<55	<58	<60

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

February 28, 2011
Revised May 24, 2011
Project No, 106942001

Boring ID	SB32	SB33	SB33	SB33	SB33	SB34
Sample Depth Interval (ft bgs)	28.0-30.0	1.0-3.0	15.5-16.5	25.0-27.0	37.0-39.0	1.0-3.0
Sample ID	SB32-28.0-30.0	SB33-1.0-3.0	SB33-15.5-16.5	SB33-25.0-27.0	SB33-37.0-39.0	SB34-1.0-3.0
Sample Date	12/21/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<61	<56	<62	<62	<57	<53
Aroclor 1221	<61	<56	<62	<62	<57	<53
Aroclor 1232	<61	<56	<62	<62	<57	<53
Aroclor 1242	<61	<56	<62	<62	<57	<53
Aroclor 1248	<61	<56	<62	<62	<57	<53
Aroclor 1254	<61	<56	<62	<62	<57	<53
Aroclor 1260	<61	<56	<62	<62	<57	<53
Aroclor 1262	<61	<56	<62	<62	<57	<53
Aroclor 5460	<61	<56	<62	<62	<57	<53

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

Boring ID	SB34	SB34	SB35	SB35	SB35	SB36
Sample Depth Interval (ft bgs)	14.0-16.0	24.0-26.0	1.0-3.0	7.0-8.5	14.0-18.0	1.0-4.0
Sample ID	SB34-14.0-16.0	SB34-24.0-26.0	SB35-1.0-3.0	SB35-7.0-8.5	SB35-14.0-18.0	SB36-1.0-4.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<63	<59	<53	<55	<62	<54
Aroclor 1221	<63	<59	<53	<55	<62	<54
Aroclor 1232	<63	<59	<53	<55	<62	<54
Aroclor 1242	<63	<59	<53	<55	<62	<54
Aroclor 1248	<63	<59	<53	<55	<62	<54
Aroclor 1254	<63	<59	<53	<55	<62	<54
Aroclor 1260	<63	<59	**56**	<55	<62	<54
Aroclor 1262	<63	<59	<53	<55	<62	<54
Aroclor 5460	<63	<59	<53	<55	<62	<54

Notes:
ug/kg = micrograms per kilogram
ft = feet
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<X = the constinuent was not detected
at or above the indicated detection limit.

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Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

Boring ID	SB36	SB36	SB36	SB37	SB37	SB37
Sample Depth Interval (ft bgs)	7.0-9.0	24.0-25.0	35.0-36.5	1.0-3.0	10.0-12.0	13.0-15.0
Sample ID	SB36-7.0-9.0	SB36-24.0-25.0	SB36-35.0-36.5	SB37-1.0-3.0	SB37-10.0-12.0	SB37-13.0-15.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<56	<59	<58	<53	<63	<65
Aroclor 1221	<56	<59	<58	<53	<63	<65
Aroclor 1232	<56	<59	<58	<53	<63	<65
Aroclor 1242	<56	<59	<58	<53	<63	<65
Aroclor 1248	<56	<59	<58	<53	<63	<65
Aroclor 1254	<56	<59	<58	<53	<63	<65
Aroclor 1260	**69**	<59	<58	<53	<63	<65
Aroclor 1262	<56	<59	<58	<53	<63	<65
Aroclor 5460	<56	<59	<58	<53	<63	<65

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 8
Summary of Soil Sample Analytical Results
PCBs / PCTs

February 28, 2011
Revised May 24, 2011
Project No, 106942001

Boring ID	SB38	SB38	SB38	SB40	SB40	SB40
Sample Depth Interval (ft bgs)	1.0-3.0	10.0-12.0	30.0-32.0	2.0-3.0	5.0-6.5	10.0-11.5
Sample ID	SB38-1.0-3.0	SB38-10.0-12.0	SB38-30.0-32.0	SB40-2.0-3.0	SB40-5.0-6.5	SB40-10.0-11.5
Sample Date	12/21/10	12/21/10	12/21/10	12/20/10	12/20/10	12/20/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Aroclor 1016	<58	<61	<59	<57	<56	<61
Aroclor 1221	<58	<61	<59	<57	<56	<61
Aroclor 1232	<58	<61	<59	<57	<56	<61
Aroclor 1242	<58	<61	<59	<57	<56	<61
Aroclor 1248	<58	<61	<59	<57	<56	<61
Aroclor 1254	**210**	<61	<59	**740**	<56	<61
Aroclor 1260	**170**	<61	<59	**670**	<56	<61
Aroclor 1262	<58	<61	<59	<57	<56	<61
Aroclor 5460	**490**	<61	<59	**1500**	<56	<61

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 9
Summary of Soil Sample Analytical Results
Title 22 Metals

February 28, 2010
Revised May 24, 2011
Project No 106942001

Boring ID	SB01	SB01	SB01	SB02	SB02	SB02	SB03	SB03	SB03
Sample Depth Interval (ft bgs)	2.0-4.0	12.5-13.0	33.0-35.0	1.0-3.0	14.0-16.0	34.0-36.0	1.0-1.5	14.0-16.0	21.0-23.0
Sample ID	SB01-2.0-4.0	SB01-12.5-13.0	SB01-33.0-35.0	SB02-1.0-3.0	SB02-14.0-16.0	SB02-34.0-36.0	SB03-1.0-1.5	SB03-14.0-16.0	SB03-21.0-23.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0.750	<1 02	<0 905	<0 850	<0.993	<0 895	<0 873	<1 07	<0 892
Arsenic	3.00	6.13	2.46	4.37	6.49	2.48	5.21	8.03	2.19
Barium	26.8	65.4	49.6	81.1	91.5	53.1	60.2	69.8	8.9
Beryllium	<0.267	<0 341	<0 302	<0.283	<0 331	<0 298	<0 291	0.436	<0.297
Cadmium	<0.535	<0 681	<0 603	<0.567	<0.662	<0 597	<0 582	<0 710	<0.595
Chromium	5.57	12.4	13.7	15.9	20.1	13.0	11.5	25.5	2.32
Cobalt	2.70	7.02	8.45	6.28	10.5	8.77	6.85	9.07	1.75
Copper	8.38	12.3	9.71	16.8	15.5	10.4	16.1	25.2	1.13
Lead	9.58	9.06	1.49	13.2	21.4	1.56	23.4	20.9	<0.595
Mercury	<0 0893	<0 0893	<0 101	<0 0947	0.129	<0 0996	<0 0972	0.27	<0 0993
Molybdenum	<0.267	0.480	<0 302	0.820	0.641	<0 298	0.506	1.39	<0.297
Nickel	2.50	4.68	5.86	7.85	7.41	6.24	10.3	9.3	1.04
Selenium	<0.802	<1.02	<0 905	<0.850	<0.993	<0 895	<0 873	<1.07	<0.892
Silver	<0.267	<0.341	<0 302	<0.283	<0.331	<0.298	<0 291	<0.355	<0.297
Thallium	<0.802	<1 02	<0 905	<0.850	<0.993	<0.895	<0 873	<1.07	<0.8952
Vanadium	14.1	34.5	46.3	38.5	43.5	42.6	42.5	54.9	8.86
Zinc	27.6	38	29.6	42.5	62.8	30.6	56.3	60.2	4.07

Notes
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
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at or above the indicated detection limit

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Table 9
Summary of Soil Sample Analytical Results
Title 22 Metals

	Boring ID	SB03	SB05	SB05	SB05	SB05	SB08	SB08	SB08	SB09
	Sample Depth Interval (ft bgs)	34.0-36.0	2.0-4.0	12.0-14.0	25.0-27.0	36.0-38.0	3.0-5.0	14.0-16.0	17.0-19.0	1.0-5.0
	Sample ID	SB03-34 0-36.0	SB05-2.0-4.0	SB05-12.0-14.0	SB05-25.0-27.0	SB05-36.0-38.0	SB08-3.0-5.0	SB08-14.0-16.0	SB08-17.0-19.0	SB09-1.0-5.0
	Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10	12/18/10
	EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
	Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony		<0 884	<0 800	<0 883	<0.965	<0.919	<0 828	<0 955	<0 857	<0 800
Arsenic		1.89	3.17	3.03	4.18	<0 919	4.68	3.92	8.48	3.59
Barium		35.6	20.7	15.9	17.1	6.96	48.2	32.8	29.3	32
Beryllium		<0 295	<0 267	<0.294	<0.322	<0 306	<0 276	<0 318	<0 286	<0 267
Cadmium		<0 590	<0 534	<0 589	<0.644	<0.613	<0 552	<0 637	<0 571	<0 533
Chromium		9.73	5.56	3.67	5.29	2.18	22.9	7.85	2.41	7.16
Cobalt		5.14	2.81	1.69	3.76	1.24	5.44	3.89	1.94	3.05
Copper		7.441	4.19	5.75	2.35	1.27	29.1	12.9	1.67	7.32
Lead		<0.5990	7.24	1.7	<0 644	<0 613	21.6	8.06	<0 571	4.369
Mercury		<0 0985	<0 0891	<0 0984	<1 07	<0 102	0.441	0.185	<0 0954	<0 0890
Molybdenum		<0 295	<0 267	0.322	<0 322	<0 306	1.12	1.03	<0 286	<0.267
Nickel		3.98	2.64	1.31	2.84	0.686	18.5	2.72	1.47	9.5
Selenium		<0.884	<0.800	<0.883	<0.965	<0.919	<0 828	<0 955	<0.857	<0.800
Silver		<0.295	<0.267	<0.294	<0.322	<0.306	<0 276	<0 318	<0.286	<0.267
Thallium		<0 884	<0 800	<0 883	<0.965	<0.919	<0.828	<0 955	<0.857	<0 800
Vanadium		33.7	12.5	10.2	27.6	10.8	53.8	17.7	22.2	14.5
Zinc		19.9	21.4	14.3	12.7	3.84	60.4	27.9	6.08	22.8

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
"<X = the constituent was not detected at or above the indicated detection limit

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Table 9
Summary of Soil Sample Analytical Results
Title 22 Metals

Boring ID	SB09	SB09	SB09	SB09	SB10	SB10	SB10	SB10	SB10
Sample Depth Interval (ft bgs)	13.0-16.0	18.5-20.0	21.0-22.0	32.0-33.5	4.0-5.0	7.5-9.0	20.0-22.0	24.0-25.5	32.0-33.0
Sample ID	SB09-13.0-16.0	SB09-18.5-20.0	SB09-21.0-22.0	SB09-32.0-33.5	SB10-4.0-5.0	SB10-7.5-9.0	SB10-20.0-22.0	SB10-24.0-25.5	SB10-32.0-33.0
Sample Date	12/18/10	12/18/10	12/18/10	12/18/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*	*mg/kg*
Antimony	<0 926	<0 924	<0 934	<0 892	<0 821	<0 851	<0 939	<0.928	<0 904
Arsenic	4.49	5.14	3.38	2.36	7.10	3.74	4.63	5.75	2.98
Barium	49.6	66.5	50.0	46.2	88.2	34.4	65.4	41.6	64.1
Beryllium	<0.309	<0 308	<0 311	<0 297	<0.274	<0 284	<0 313	<0 309	<0 301
Cadmium	<0 617	<0 616	<0 623	<0 595	<0.548	<0 568	<0 626	<0 619	<0.602
Chromium	8.33	11.0	8.03	10.1	8.32	7.38	8.00	9.19	10.5
Cobalt	5.78	7.27	5.26	6.55	4.12	3.39	5.03	5.93	7.43
Copper	7.2	9.12	6.82	6.96	5.46	10.1	10.8	5.10	9.78
Lead	1.66	1.92	10.1	2.29	3.15	15.7	7.02	4.09	1.25
Mercury	<0 103	<0 103	<0.104	<0 0993	<0 0915	<0 0948	<0 105	<0.103	<0 101
Molybdenum	<0 309	<0 308	<0.311	<0.297	1.01	<0 284	<0 313	0.636	<0.301
Nickel	4.28	5.47	4 09	4.76	3.59	5.19	4.13	3.72	5.16
Selenium	<0 926	<0.924	<0.934	<0.892	<0.821	<0 851	<0 939	<0.928	<0.904
Silver	<0 309	<0.308	<0.311	<0.297	<0 274	<0.284	<0.313	<0.309	<0.301
Thallium	<0.926	<0.924	<0.934	<0 892	<0.821	<0.851	<0.939	<0.928	<0 904
Vanadium	34.2	43.2	30.0	30.4	26.8	23.2	31.2	27.5	39.3
Zinc	20.4	26.2	19.4	21.4	18.6	25.9	25.7	25.5	25.3

Notes:
mg/kg = milligrams per kilogram
ft = feet
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at or above the indicated detection limit

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Table 9
Summary of Soil Sample Analytical Results
Title 22 Metals

Boring ID	SB11	SB11	SB11	SB13	SB13	SB13	SB14	SB14	SB14
Sample Depth Interval (ft bgs)	5.0-7.0	9.5-10.1	18.0-20.0	1.0-3.5	14.0-16.0	19.0-23.0	3.0-5.0	12.5-14.0	15.0-16.5
Sample ID	SB11-5.0-7.0	SB11-9.5-10.0	SB11-18.0-20.0	SB13-1.0-3.5	SB13-14.0-16.0	SB13-19.0-23.0	SB14-3.0-5.0	SB14-12.5-14.0	SB14-15.0-16.5
Sample Date	12/19/10	12/19/10	12/19/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0.806	<0.848	<0.959	<0.806	<0.941	<0.874	<0.808	<0.982	<0.958
Arsenic	3.79	3.64	4.04	3.70	3.12	7.94	4.10	4.03	2.76
Barium	40.1	32.3	48.9	17.1	17.7	20.5	7.29	34.7	17.2
Beryllium	<0.269	<0.283	<0.320	<0.269	<0.314	<0.291	<0.269	<0.327	<0.319
Cadmium	<0.538	<0.566	<0.639	<0.538	<0.627	<0.583	<0.539	<0.654	<0.639
Chromium	14.5	11.9	8.02	7.01	19.3	2.87	10.4	9.58	38.7
Cobalt	3.51	3.30	4.93	3.41	3.21	2.87	1.28	3.90	3.06
Copper	18.2	14.9	8.76	44.0	11.5	2.17	1.42	53.1	16.2
Lead	15.0	7.94	4.63	33.4	22.9	<0.583	<0.539	19.2	5.75
Mercury	0.128	<0.0945	<0.107	0.0909	<0.105	<0.0973	<0.0900	<0.109	<0.107
Molybdenum	0.584	0.618	<0.320	<0.269	0.637	<0.291	<0.269	1.32	0.538
Nickel	10.9	8.44	3.62	4.20	1.97	2.17	14.2	3.38	2.76
Selenium	<0.806	<0.848	<0.959	<0.806	<0.941	<0.874	<0.808	<0.982	<0.958
Silver	<0.269	<0.283	<0.320	<0.269	<0.314	<0.291	<0.269	<0.327	<0.319
Thallium	<0.806	<0.848	<0.959	<0.806	<0.941	<0.874	<0.808	<0.982	<0.958
Vanadium	42.8	33.6	32.6	15.6	10.2	23.7	11.0	24.9	15.8
Zinc	39.9	26.9	26.6	61.5	22.3	6.35	5.00	27.6	17.5

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
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at or above the indicated detection limit.

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Boring ID	SB14	SB15	SB15	SB15	SB16	SB16	SB19	SB18	SB18	SB18	SB19
Sample Depth Interval (ft bgs)	16.5-17.5	3.0-5.0	12.0-14.0	16.0-18.0	4.0-6.0	16.0-18.0	1.0-3.0	3.0-5.0	8.0-9.0	12.0-13.5	22.0-24.0
Sample ID	SB14-16.5-17.5	SB15-3.0-5.0	SB15-12.0-14.0	SB15-16.0-18.0	SB16-4.0-6.0	SB16-16.0-18.0	SB19-1.0-3.0	SB18-3.0-5.0	SB18-8.0-9.0	SB18-12.0-13.5	SB18-22.0-24.0
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0 982	<0 767	<0 948	<0 890	<0.833	<0.904	<0 837	1.98	<0 835	<0 845	<0 861
Arsenic	3.62	1.69	5.67	6.31	4.61	5.10	6.33	5.39	3.38	3.99	7.49
Barium	22.7	7.66	44.6	14.2	39.5	34.5	58.3	49.2	41.7	35.6	25.9
Beryllium	<0.327	<0.256	<0 316	<0 297	<0.278	<0 301	<0 279	<0 288	<0 278	<0.282	<0 287
Cadmium	<0 654	<0 511	<0 632	<0 593	<0 556	<0 602	<0 558	<0 576	<0 557	<0.563	<0 574
Chromium	8.81	5.86	27.8	4.06	7.88	6.03	267	478	35.4	48.5	9.18
Cobalt	3.15	2.15	6.23	3.14	4.65	3.71	11.5	17.1	7.75	6.01	2.95
Copper	765	2.42	13.1	2.80	7.07	5.46	152	289	15.3	25.8	2.50
Lead	16.3	<0 511	12.9	<0.593	4.32	1.15	63.3	94.4	5.95	10.7	<0.574
Mercury	0.313	<0.0854	0.346	<0 0991	<0 0928	<0.101	0.777	1.79	0.218	0.154	<0 0959
Molybdenum	0.945	<0.256	0.636	0.379	1.00	<0.301	6.48	11.8	0.606	0.916	<0 287
Nickel	3.44	18.1	4.88	1.83	3.53	2.86	169	431	58.6	49.1	2.10
Selenium	<0.982	<0.767	<0 948	<0 890	<0.833	<0.904	<0.837	<0.864	<0.835	<0.845	<0.861
Silver	<0.327	<0.256	<0 316	<0 297	<0.278	<0 301	<0.279	<0.288	<0.278	<0.282	<0.287
Thallium	<0.982	<0.767	<0 948	<0 890	<0.833	<0 904	<0.837	<0.864	<0.835	<0.845	<0 861
Vanadium	10.9	14.8	30.5	23.0	27.9	25.6	251	716	79 0	89.2	22.0
Zinc	29.0	7.76	37.0	9.20	18.2	14.2	161	125	29.1	31.0	6.34

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit

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Boring ID	SB18	SB19	SB19	SB19	SB21	SB21	SB21	SB21	SB22	SB22	SB22
Sample Depth Interval (ft bgs)	27.5-29.0	15.5-16.0	18.0-20.0	22.0-25.0	3.0-5.0	13.0-14.5	20.5-22.0	28.0-30.0	4.0-6.0	9.5-10.5	16.0-18.0
Sample ID	SB18-27.5-29.0	SB19-15.5-16.0	SB19-18.0-20.0	SB19-22.0-25.0	SB21-3.0-5.0	SB21-13.0-14.5	SB21-20.5-22.0	SB21-28.0-30.0	SB22-4.0-6.0	SB22-9.5-10.5	SB22-16.0-18.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0.925	<0.897	<0.923	<0.929	<0.845	<0.932	<0.909	<0.871	<0.831	<0.928	<0.903
Arsenic	2.32	3.50	5.07	6.07	6.29	3.31	4.28	2.53	3.86	3.97	6.85
Barium	22.3	39.8	41.8	30.8	128	22.2	38.9	15.5	36.0	44.9	16.4
Beryllium	<0.308	<0.299	<0.308	<0.310	<0.282	<0.311	<0.303	<0.290	<0.277	<0.309	<0.301
Cadmium	<0.617	<0.598	<0.615	<0.620	<0.563	<0.621	<0.606	<0.581	<0.554	<0.619	<0.602
Chromium	4.69	59.0	8.01	16.5	7.71	5.07	6.85	4.20	5.95	9.52	5.15
Cobalt	3.67	4.73	5.81	4.65	3.11	2.08	3.05	2.28	3.30	4.05	3.02
Copper	2.90	6.85	10.3	4.74	248	7.11	6.14	2.15	6.30	6.40	5.20
Lead	<0.617	3.39	5.51	<0.620	243	4.79	<0.606	<0.581	6.45	2.12	2.00
Mercury	<0.103	<0.0999	<0.103	<0.103	6.66	0.114	<0.101	<0.0970	<0.0926	<0.103	<0.100
Molybdenum	<0.308	<0.299	0.752	<0.310	<0.282	0.667	<0.303	<0.290	<0.277	<0.309	1.21
Nickel	2.70	4.28	4.17	2.92	6.23	1.66	3.17	1.55	2.65	3.36	2.83
Selenium	<0.925	<0.897	<0.923	<0.929	<0.845	<0.932	<0.909	<0.871	<0.831	<0.928	<0.903
Silver	<0.308	<0.299	<0.308	<0.310	<0.282	<0.311	<0.303	<0.290	<0.277	<0.309	<0.301
Thallium	<0.925	<0.897	<0.923	<0.929	<0.845	<0.932	<0.909	<0.871	<0.831	<0.928	<0.903
Vanadium	31.7	32.0	34.7	57.9	15.1	10.7	22.3	15.1	21.0	21.3	67.4
Zinc	11.9	18.8	22.0	12.0	234	15.4	16.6	8.69	18.3	21.2	13.9

Notes
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit.

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Boring ID	SB22	SB26	SB26	SB26	SB26	SB28	SB29	SB28	SB28	SB29	SB29
Sample Depth Interval (ft bgs)	21.0-23.0	2.0-4.0	8.0-10.0	14.0-16.0	24.0-26.0	3.0-5.0	15.5-17.0	19.5-21.5	23.0-25.0	1.0-3.0	3.0-5.0
Sample ID	SB22-21.0-23.0	SB26-2.5-4.0	SB26-8.0-10.0	SB26-14.0-16.0	SB26-24.0-26.0	SB28-3.0-5.0	SB28-15.5-17.0	SB28-19.5-21.5	SB28-23.0-25.0	SB29-1.0-3.0	SB29-3.0-5.0
Sample Date	12/20/10	12/19/10	12/19/10	12/19/10	12/19/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0.901	<0.792	<0.899	<0.940	<0.869	<0.795	<0.904	<0.949	<0.880	<0.874	<0.807
Arsenic	1.26	3.10	2.29	3.34	2.10	2.98	3.90	3.43	3.77	10.0	3.97
Barium	19.1	39.1	9.09	25.7	49.6	25.5	20.6	22.2	45.8	89.2	35.8
Beryllium	<0.300	<0.264	<0.300	<0.313	<0.290	<0.265	<0.301	<0.316	<0.293	0.393	<0.269
Cadmium	<0.601	<0.528	<0.600	<0.627	<0.579	<0.530	<0.602	<0.633	<0.587	<0.583	<0.538
Chromium	3.05	7.34	2.80	6.07	9.60	5.35	5.32	6.64	11.2	711	115
Cobalt	4.44	4.36	1.48	2.82	8.69	2.68	2.92	3.01	10.5	24.6	6.21
Copper	2.89	9.59	2.72	8.42	11.6	7.16	4.14	3.43	8.44	532	35.3
Lead	<0.601	4.33	1.53	5.77	1.69	9.17	14.9	9.40	1.77	92.8	34.7
Mercury	<0.100	<0.0882	<0.100	0.201	<0.0968	<0.0885	<0.101	<0.106	<0.0980	1.57	<0.0899
Molybdenum	<0.300	<0.264	<0.300	0.372	<0.290	<0.265	<0.301	0.473	<0.293	68.1	0.469
Nickel	1.90	3.40	0.876	2.15	6.22	3.73	2.15	2.13	6.09	426	109
Selenium	<0.901	<0.792	<0.899	<0.940	<0.869	<0.795	<0.904	<0.949	<0.880	<0.874	<0.807
Silver	<0.300	<0.264	<0.300	<0.313	<0.290	<0.265	<0.301	<0.316	<0.293	<0.291	<0.269
Thallium	<0.901	<0.792	<0.899	<0.940	<0.869	<0.795	<0.904	<0.949	<0.880	<0.874	<0.807
Vanadium	23.7	22.7	9.71	17.4	39.8	20.1	15.2	13.5	48.7	467	56.8
Zinc	6.53	22.5	7.68	19.5	24.8	26.5	28.6	18.2	24.6	355	70.2

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected at or above the indicated detection limit.

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Table 9
Summary of Soil Sample Analytical Results
Title 22 Metals

Boring ID	SB29	SB29	SB29	SB29	SB30	SB30	SB30	SB30	SB31	SB31	SB31
Sample Depth Interval (ft bgs)	15.0-15.5	16.5-17.0	21.0-24.0	25.0-26.5	3.0-5.0	13.0-15.0	18.0-20.0	26.0-28.0	3.0-5.0	24.5-25.5	26.0-30.0
Sample ID	SB29-15.0-15.5	SB29-16.5-17.0	SB29-21.0-24.0	SB29-25.0-26.5	SB30-3.0-5.0	SB30-13.0-15.0	SB30-18.0-20.0	SB30-26.0-28.0	SB31-3.0-5.0	SB31-24.5-25.5	SB31-26.0-30.0
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/20/10	12/21/10	12/21/10	12/21/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0.958	<0.849	<0.890	<0.849	<0.790	<0.815	<0.878	<0.924	<0.809	<0.921	<0.917
Arsenic	7.31	4.22	7.14	10.5	2.39	4.38	6.01	8.98	4.91	4.97	1.72
Barium	56.8	38.2	17.1	14.6	6.05	35.8	77.3	22.2	26.2	27.1	20.1
Beryllium	0.389	<0.283	<0.297	<0.283	<0.263	<0.272	<0.293	<0.308	<0.270	<0.307	<0.306
Cadmium	<0.639	<0.566	<0.593	<0.566	<0.527	<0.543	<0.585	<0.616	<0.539	<0.614	<0.611
Chromium	32.0	275	6.86	3.43	2.92	9.59	21.4	4.56	5.68	6.43	3.12
Cobalt	8.77	7.36	3.16	2.50	1.27	5.28	7.64	4.50	3.35	4.03	2.29
Copper	21.9	184	2.39	1.25	0.583	5.18	14.6	2.77	21.0	4.36	1.75
Lead	24.1	30.9	<0.593	<0.566	4.31	5.28	4.33	<0.616	8.64	5.44	<0.611
Mercury	0.514	0.535	<0.0991	<0.0946	<0.0880	<0.0908	<0.0978	<0.103	<0.0901	<0.103	<0.102
Molybdenum	1.72	17.0	<0.297	<0.283	<0.263	<0.272	<0.293	<0.308	<0.270	0.422	<0.306
Nickel	8.93	102	2.07	1.37	0.728	3.27	8.14	2.41	2.72	3.04	1.37
Selenium	<0.958	<0.849	<0.890	<0.849	<0.790	<0.815	<0.878	<0.924	<0.809	<0.921	<0.917
Silver	<0.319	<0.283	<0.297	<0.283	<0.263	<0.272	<0.293	<0.308	<0.270	<0.307	<0.306
Thallium	<0.958	<0.849	<0.890	<0.849	<0.790	<0.815	<0.878	<0.924	<0.809	<0.921	<0.917
Vanadium	46.2	143	20.8	22.3	5.29	17.3	48.1	26.3	18.3	21.8	14.2
Zinc	60.6	132	8.08	2.85	5.54	27.2	34.5	9.64	20.3	19.9	7.42

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
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at or above the indicated detection limit

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Boring ID	SB31	SB32	SB32	SB32	SB32	SB33	SB33	SB33	SB33	SB34	SB34
Sample Depth Interval (ft bgs)	30.0-34.0	4.0-5.0	12.0-15.0	15.0-16.0	28.0-30.0	1.0-3.0	15.5-16.5	25.0-27.0	37.0-39.0	1.0-3.0	14.0-16.0
Sample ID	SB31-30.0-34.0	SB32-4.0-5.0	SB32-12.0-15.0	SB32-15.0-16.0	SB32-28.0-30.0	SB33-1.0-3.0	SB33-15.5-16.5	SB33-25.0-27.0	SB33-37.0-39.0	SB34-1.0-3.0	SB34-14.0-16.0
Sample Date	12/21/10	12/21/10	12/21/10	12/21/10	12/21/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0 964	<0 822	<0 868	<0 899	<0 917	<0 841	<0 923	<0 931	<0 857	<0 802	<0 951
Arsenic	2.39	3.40	3.72	2.67	4.78	4.98	5.11	2.42	4.56	5.71	3.34
Barium	26.5	34.3	43.5	28.3	33.5	32.4	12.5	30.7	34.1	58.4	15.6
Beryllium	<0.321	<0.274	<0 289	<0 300	<0 306	<0.280	<0 308	<0 310	<0 286	<0 267	<0 317
Cadmium	<0.643	<0.548	<0 579	<0 600	<0 611	<0.561	<0 615	<0 620	<0 571	<0 535	<0 634
Chromium	5.16	6.09	7.99	6.53	6.21	7.94	4.10	6.57	5.87	10.5	4.71
Cobalt	7.83	3.31	4.31	3.51	10.9	3.76	2.67	4.02	3.23	5.77	2.22
Copper	2.98	10.6	12.2	9.82	4.36	8.36	3.36	4.81	3.90	11.8	13.4
Lead	1.29	9.38	13.3	276	<0.611	8.00	13.2	16.6	<0 571	25.7	6.75
Mercury	*<0 107*	*<0 0916*	*<0 0966*	*<0 100*	*<0.102*	***0.133***	*<0 103*	*<0.104*	*<0 0954*	*<0 0893*	***0.201***
Molybdenum	<0 321	0.379	0.354	<0.300	<0.306	0.283	<0 308	<0.310	<0 286	<0 267	0.339
Nickel	4.73	3.66	5.26	5.20	5.00	2.96	1.39	2.73	2.22	7.13	1.53
Selenium	<0.964	<0.822	<0.868	<0.899	<0.917	<0 841	<0 923	<0 931	<0 857	<0 802	<0.951
Silver	<0.321	<0 274	<0.289	<0.300	<0 306	<0.280	<0 308	<0 310	<0 286	<0 267	<0.317
Thallium	<0.964	<0.822	<0.868	<0.899	<0 917	<0.841	<0 923	<0 931	<0.857	<0 802	<0.951
Vanadium	20.0	18.8	25.6	26.0	30.6	21.0	11.2	23.5	21.0	38.2	10.7
Zinc	15.8	25.2	29.1	24.6	17.3	26.8	21.3	26.0	9.15	45.9	20.9

Notes:
mg/kg = milligrams per kilogram
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at or above the indicated detection limit.

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Table 9
Summary of Soil Sample Analytical Results
Title 22 Metals

Boring ID	SB34	SB35	SB35	SB35	SB36	SB36	SB36	SB36	SB37	SB37	SB37
Sample Depth Interval (ft bgs)	24.0-26.0	1.0-3.0	7.0-8.5	14.0-18.0	1.0-4.0	7.0-9.0	24.0-25.0	35.0-36.5	1.0-3.0	10.0-12.0	13.0-15.0
Sample ID	SB34-24.0-26.0	SB35-1.0-3.0	SB35-7.0-8.5	SB35-14.0-18.0	SB36-1.0-4.0	SB36-7.0-9.0	SB36-24.0-25.0	SB36-35.0-36.5	SB37-1.0-3.0	SB37-10.0-12.0	SB37-13.0-15.0
Sample Date	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10	12/19/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0 890	<0.798	<0.827	<0 932	<0 803	<0.846	<0 887	<0 877	<0.802	<0.946	<0 968
Arsenic	1.76	4.90	4.97	4.21	4.26	3.13	6.12	3.95	4.82	3.49	3.13
Barium	14.0	54.8	33.1	21.6	54.4	34.2	28.7	44.9	47.4	26.5	27.2
Beryllium	<0 297	<0 266	<0 276	<0 311	<0 268	<0.282	<0.296	<0 292	<0 267	<0 315	<0 323
Cadmium	<0 593	<0.532	<0 551	<0 621	<0.535	<0.564	<0 591	<0 585	<0 535	<0 631	<0.645
Chromium	2.46	10.1	7.36	7.64	9.18	7.87	5.65	6.53	11.5	6.52	6.71
Cobalt	3.38	5.81	3.68	2.96	5.30	4.47	7.43	2.78	6.79	3.15	3.18
Copper	1.36	14.8	9.56	19.8	12.0	7.96	4.02	4.53	18.6	5.72	4.95
Lead	<0 593	15.6	5.33	11.2	18.1	7.13	1.02	<0 585	7.59	4.87	5.08
Mercury	<0 0991	<0 0888	0.123	0.214	<0.0894	<0 0941	<0 0987	<0 0977	<0 0893	<0.105	<0 108
Molybdenum	<0 297	0.267	<0 276	0.655	<0 268	<0 282	0.899	<0 292	<0.267	0 317	<0 323
Nickel	1.59	13.0	3.06	2.73	17.7	3.73	4.31	1.96	13.4	2.25	2.27
Selenium	<0 890	<0 798	<0.827	<0.932	<0 803	<0 846	<0 887	<0 877	<0.802	<0.946	<0 968
Silver	<0.297	<0 266	<0.276	<0.311	<0.268	<0 282	<0 296	<0 292	<0.267	<0.315	<0 323
Thallium	<0.890	<0.798	<0 827	<0 932	<0.803	<0.846	<0.887	<0.877	<0 802	<0 946	<0.968
Vanadium	10.6	45.4	23.3	19.6	40.6	25.5	22.3	16.3	45.4	16.1	15.6
Zinc	5.11	37.2	25.2	29.3	41.7	26.1	13.9	10.5	30.4	21.4	20.5

Notes
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constituent was not detected
at or above the indicated detection limit

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Table 9
Summary of Soil Sample Analytical Results
Title 22 Metals

Boring ID	SB38	SB38	SB38	SB40	SB40	SB40
Sample Depth Interval (ft bgs)	1.0-3.0	10.0-12.0	30.0-32.0	2.0-3.0	5.0-6.5	10.0-11.5
Sample ID	SB38-1.0-3.0	SB38-10.0-12.0	SB38-30.0-32.0	SB40-2.0-3.0	SB40-5.0-6.5	SB40-10.0-11.5
Sample Date	12/21/10	12/21/10	12/21/10	12/20/10	12/20/10	12/20/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<0 865	<0 908	<0 892	<0.852	<0 834	<0 916
Arsenic	14.3	4.72	5.48	15.5	4.50	5.58
Barium	109	19.9	47.5	244	44.4	56.7
Beryllium	<0 288	<0 303	<0 297	0.660	<0 278	<0 305
Cadmium	<0 577	<0 605	<0 595	1.43	<0 556	<0 611
Chromium	109	6.53	5.77	1010	64.4	100
Cobalt	8.07	2.94	5.83	39.5	9.24	7.39
Copper	110	4.01	3.69	1800	183	142
Lead	82.2	2.33	<0.595	109	29.1	8.13
Mercury	0.110	<0.101	<0 0993	1.00	0.131	<0.102
Molybdenum	1.92	<0 303	<0.297	466	24.6	38.6
Nickel	42.7	1.85	3.22	95.3	84.3	11.6
Selenium	<0 865	<0.908	<0.892	<0.852	<0 834	<0.916
Silver	<0 288	<0.303	<0.297	<0 284	<0 278	<0.305
Thallium	<0 865	<0.908	<0.892	<0.852	<0 834	<0.916
Vanadium	88.6	14.7	30.0	148	42.0	36.3
Zinc	251	15.2	14.9	1070	92.3	117

Notes.
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
"X = the constituent was not detected
at or above the indicated detection limit.

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SCE&E Tidelands Area
San Diego, California

Table 10
Summary of Groundwater Sample Analytical Restuls
TPH

February 28, 2011
Revised May 24, 2011
Project No 106942001

Boring ID	SB01	SB03	SB08	SB10	SB15	SB16	SB18
Sample ID	SB01-GW-121810	SB03-GW-121810	SB08-GW-121810	SB10-GW-121910	SB15-GW-122110	SB16-GW-122110	SB18-GW-122010
Sample Date	12/18/10	12/18/10	12/18/10	12/19/10	12/21/10	12/21/10	12/20/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B	8015B
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
C06	<50	<50	<50	<50	<50	<50	<50
C07	<50	<50	<50	<50	<50	<50	<50
C08	<50	<50	<50	<50	<50	<50	<50
C09-C10	<50	<50	<50	<50	<50	<50	<50
C11-C12	<50	<50	<50	<50	<50	<50	<50
C13-C14	<50	<50	<50	<50	<50	<50	<50
C15-C16	<50	<50	<50	<50	<50	<50	<50
C17-C18	<50	<50	<50	<50	<50	<50	<50
C19-C20	<50	<50	<50	<50	<50	<50	<50
C21-C22	<50	<50	<50	<50	<50	<50	<50
C23-C24	<50	<50	<50	<50	<50	<50	<50
C25-C28	<50	<50	<50	<50	**58**	<50	<50
C29-C32	<50	<50	<50	<50	**55**	<50	<50
C33-C36	<50	<50	<50	<50	<50	<50	<50
C37-C40	<50	<50	<50	<50	<50	<50	<50
C41-C44	<50	<50	<50	<50	<50	<50	<50
C6-C44 Total	**110**	**65**	**110**	<50	**220**	<50	<50

Notes:
ug/l= micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.
The sample extract was subject to Silica Gel
Cleanup prior to extract.
The total concentration includes individual
carbon range concentrations (estimated),
if any , reported below the RL as ND

PORT098120

Table 10
Summary of Groundwater Sample Analytical Restuls
TPH

Boring ID	SB21	SB28	SB30	SB31	SB33	SB34	SB36
Sample ID	SB21-GW-122010	SB28-GW-122010	SB30-GW-122010	SB31-GW-122110	SB33-GW-121910	SB34-GW-121910	SB36-GW-121910
Sample Date	12/20/10	12/20/10	12/20/10	12/21/10	12/19/10	12/19/10	12/19/10
EPA Method	8015B	8015B	8015B	8015B	8015B	8015B	8015B
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
C06	<250	<50	<50	<50	<50	<50	<50
C07	<250	<50	<50	<50	<50	<50	<50
C08	<250	<50	<50	<50	<50	<50	<50
C09-C10	<250	<50	<50	<50	<50	<50	<50
C11-C12	<250	<50	<50	<50	<50	<50	<50
C13-C14	<250	<50	<50	<50	<50	<50	<50
C15-C16	<250	<50	<50	<50	<50	<50	<50
C17-C18	<250	<50	<50	<50	<50	<50	<50
C19-C20	<250	<50	<50	<50	<50	<50	<50
C21-C22	<250	<50	<50	<50	<50	<50	<50
C23-C24	<250	<50	<50	<50	<50	<50	<50
C25-C28	**330**	<50	<50	<50	<50	<50	<50
C29-C32	**690**	<50	<50	<50	<50	<50	<50
C33-C36	**710**	<50	<50	<50	<50	<50	<50
C37-C40	**620**	<50	<50	<50	<50	<50	<50
C41-C44	**400**	<50	<50	<50	<50	<50	<50
C6-C44 Total	**3200**	**240**	**110**	<50	<50	<50	<50

Notes:
ug/l= micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.
The sample extract was subject to Silica Gel
Cleanup prior to extract.
The total concentration includes individual
carbon range concentrations (estimated),
if any , reported below the RL as ND

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SGE&E Tidelands Area
San Diego, California

Table 10
Summary of Groundwater Sample Analytical Restuls
TPH

February 28, 2011
Revised May 24, 2011
Project No 106942001

Boring ID	SB38	QCEB	QCEB	QCEB	QCEB
Sample ID	SB38-GW-122110	QCEB-121810	QCEB-121910	QCEB-122010	QCEB-122110
Sample Date	12/21/10	12/18/10	12/19/10	12/20/10	12/21/10
EPA Method	8015B	8015B	8015B	8015B	8015B
Units	ug/l	ug/l	ug/l	ug/l	ug/l
C06	<50	<50	<50	<50	<50
C07	<50	<50	<50	<50	<50
C08	<50	<50	<50	<50	<50
C09-C10	<50	<50	<50	<50	<50
C11-C12	<50	<50	<50	<50	<50
C13-C14	<50	<50	<50	<50	<50
C15-C16	<50	<50	<50	<50	<50
C17-C18	<50	<50	<50	<50	<50
C19-C20	<50	<50	<50	<50	<50
C21-C22	<50	<50	<50	<50	<50
C23-C24	<50	<50	<50	<50	<50
C25-C28	<50	<50	<50	<50	<50
C29-C32	<50	<50	<50	<50	<50
C33-C36	<50	<50	<50	<50	<50
C37-C40	<50	<50	<50	<50	<50
C41-C44	<50	<50	<50	<50	<50
C6-C44 Total	110	<50	<50	<50	<50

Notes
ug/l= micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.
The sample extract was subject to Silica Gel
Cleanup prior to extract
The total concentration includes individual
carbon range concentrations (estimated),
if any , reported below the RL as ND

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Table 11
Summary of Groundwater Sample Analytical Results
VOCs

Boring ID	SB01	SB03	SB08	SB10	SB15	SB16
Sample ID	SB01-GW-121810	SB03-GW-121810	SB08-GW-121810	SB10-GW-121910	SB15-GW-122110	SB16-GW-122110
Sample Date	12/18/10	12/18/10	12/18/10	12/19/10	12/21/10	12/21/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Acetone	<50	<50	<50	<50	<50	<50
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	<10	<10	<10	<10	<10	<10
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<10	<10	<10	<10	<10	<10
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	**6.2**	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<0.50	**2.8**	**0.70**	**3.0**	<0.50	<0.50
1,1-Dichloroethene	<1.0	**75**	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	**18**	**4.1**	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 11 (Trichlorofluoromethane)	<10	<10	<10	<10	<10	<10
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethar	<10	<10	<10	<10	<10	<10
Freon 12 (Dichlorodifluoromethane)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<10	<10	<10	<10	<10	<10
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	<10	<10	<10	<10	<10	<10
Methyl isobutyl ketone (MIBK)	<10	<10	<10	<10	<10	<10
Methyl Tert-butyl ether (MTBE)	<1.0	**1.1**	<1.0	**1.9**	<1.0	<1.0
Methylene chloride	<10	<10	<10	<10	<10	<10
Naphthalene	<10	<10	<10	<10	<10	<10
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	**2.2**	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	**52**	**8.1**	**3.3**	<1.0	<1.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<0.50	**0.72**	<0.50	<0.50	<0.50	<0.50
m,p-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit

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Table 11
Summary of Groundwater Sample Analytical Results
VOCs

Boring ID	SB18	SB21	SB28	SB30	SB31	SB33
Sample ID	SB18-GW-122010	SB21-GW-122010	SB28-GW-122010	SB30-GW-122010	SB31-GW-122110	SB33-GW-121910
Sample Date	12/20/10	12/20/10	12/20/10	12/20/10	12/21/10	12/19/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Acetone	<50	<50	<50	<50	<50	<50
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	<10	<10	<10	<10	<10	<10
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<10	<10	<10	<10	<10	<10
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	**1.4**	<1.0	<1.0	<1.0	<1.0	**2.1**
1,2-Dichloroethane	**2.2**	<0.50	**1.0**	<0.50	<0.50	**1.7**
1,1-Dichloroethene	**1.6**	<1.0	<1.0	<1.0	<1.0	**17**
cis-1,2-Dichloroethene	**43**	<1.0	**6.9**	**12**	**30**	**9.3**
trans-1,2-Dichloroethene	**2.0**	<1.0	<1.0	<1.0	**2.1**	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 11 (Trichlorofluoromethane)	<10	<10	<10	<10	<10	<10
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethar	<10	<10	<10	<10	<10	<10
Freon 12 (Dichlorodifluoromethane)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<10	<10	<10	<10	<10	<10
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	<10	<10	<10	<10	<10	<10
Methyl isobutyl ketone (MIBK)	<10	<10	<10	<10	<10	<10
Methyl Tert-butyl ether (MTBE)	**7.3**	22	<1.0	**96**	**1.5**	<1.0
Methylene chloride	<10	<10	<10	<10	<10	<10
Naphthalene	<10	<10	<10	<10	<10	<10
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	**130**	<1.0	**2.9**	**11**	**36**	**13**
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	<10	<10	<10	<10	<10	<10
Vinyl Chloride	**2.4**	1.7	<0.50	<0.50	**0.68**	<0.50
m,p-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes.
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 11
Summary of Groundwater Sample Analytical Results
VOCs

Boring ID	SB34	SB36	SB38	QCEB	QCEB	QCEB
Sample ID	SB34-GW-121910	SB36-GW-121910	SB38-GW-122110	QCEB-121810	QCEB-121910	QCEB-122010
Sample Date	12/19/10	12/19/10	12/21/10	12/18/10	12/19/10	12/20/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Acetone	<50	<50	<50	<50	<50	<50
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	<10	<10	<10	<10	<10	<10
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<10	<10	<10	<10	<10	<10
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	**0.74**	**1.2**	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	**20**	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	**8.1**	**13**	**38**	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	**2.7**	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 11 (Trichlorofluoromethane)	<10	<10	<10	<10	<10	<10
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethar	<10	<10	<10	<10	<10	<10
Freon 12 (Dichlorodifluoromethane)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<10	<10	<10	<10	<10	<10
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	<10	<10	<10	<10	<10	<10
Methyl isobutyl ketone (MIBK)	<10	<10	<10	<10	<10	<10
Methyl Tert-butyl ether (MTBE)	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0
Methylene chloride	<10	<10	<10	<10	<10	<10
Naphthalene	<10	<10	<10	<10	<10	<10
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	**12**	**21**	**36**	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	<10	<10	<10	<10	<10	<10
Vinyl Chloride	**0.62**	**0.51**	**1.8**	<0.50	<0.50	<0.50
m,p-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 11
Summary of Groundwater Sample Analytical Results
VOCs

Boring ID	QCEB	QCTB	QCTB	QCTB	QCTB	QCTB
Sample ID	QCEB-122110	QCTB-121810	QCTB-121910	QCTB-122010	QCTB-122110	QCTB-122910
Sample Date	12/21/10	12/18/10	12/19/10	12/20/10	12/21/10	12/29/10
EPA Method	8260B	8260B	8260B	8260B	8260B	8260B
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Acetone	<50	<50	<50	<50	<50	<50
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	<10	<10	<10	<10	<10	<10
n-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<10	<10	<10	<10	<10	<10
2-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-chloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane (EDB)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Freon 11 (Trichlorofluoromethane)	<10	<10	<10	<10	<10	<10
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethar	<10	<10	<10	<10	<10	<10
Freon 12 (Dichlorodifluoromethane)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	<10	<10	<10	<10	<10	<10
Isopropylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone	<10	<10	<10	<10	<10	<10
Methyl isobutyl ketone (MIBK)	<10	<10	<10	<10	<10	<10
Methyl Tert-butyl ether (MTBE)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<10	<10	<10	<10	<10	<10
Naphthalene	<10	<10	<10	<10	<10	<10
n-Propylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Acetate	<10	<10	<10	<10	<10	<10
Vinyl Chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m,p-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 12
Summary of Groundwater Sample Analytical Results
SVOCs

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB01	SB03	SB08	SB10	SB15	SB16	SB18
Sample ID	SB01-GW-121810	SB03-GW-121810	SB08-GW-121810	SB10-GW-121910	SB15-GW-122110	SB16-GW-122110	SB18-GW-122010
Sample Date	12/18/10	12/18/10	12/18/10	12/19/10	12/21/10	12/21/10	12/20/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C	8270C
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Acenaphthene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Acenaphthylene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Anthracene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Benzo(a)anthracene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Benzo(a)pyrene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Benzo(b)fluoranthene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Benzo(g,h,i)perylene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Benzo(k)fluoranthene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Chrysene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Dibenzo(a,h)anthracene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Fluoranthene	<0.24	<0.21	<0.22	**0.22**	<0.23	<0.20	<0.21
Fluorene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Indeno(1,2,3-c,d)pyrene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
1-Methylnaphthalene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
2-Methylnaphthalene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Naphthalene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Phenanthrene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21
Pyrene	<0.24	<0.21	<0.22	<0.20	<0.23	<0.20	<0.21

Notes:
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit

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SDG&E Tidelands Area
San Diego, California

Table 12
Summary of Groundwater Sample Analytical Results
SVOCs

February 28, 2011
Revised May 24, 2011
Project No 106942001

Boring ID	SB21	SB28	SB30	SB31	SB33	SB34	SB36
Sample ID	SB21-GW-122010	SB28-GW-122010	SB30-GW-122010	SB31-GW-122110	SB33-GW-121910	SB34-GW-121910	SB36-GW-121910
Sample Date	12/20/10	12/20/10	12/20/10	12/21/10	12/19/10	12/19/10	12/19/10
EPA Method	8270C	8270C	8270C	8270C	8270C	8270C	8270C
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Acenaphthene	<0 24	<0.22	<0.28	<0.20	<0.22	<0.20	<0.22
Acenaphthylene	<0.24	<0.22	<0.28	<0.20	<0.22	<0.20	<0.22
Anthracene	<0.24	<0.22	<0.28	<0.20	<0.22	<0.20	<0.22
Benzo(a)anthracene	<0.24	<0.22	<0.28	<0 20	<0 22	<0.20	<0.22
Benzo(a)pyrene	<0 24	<0.22	<0.28	<0.20	<0 22	<0.20	<0 22
Benzo(b)fluoranthene	<0.24	<0.22	<0.28	<0 20	<0 22	<0.20	<0.22
Benzo(g,h,i)perylene	<0 24	<0.22	<0.28	<0.20	<0 22	<0.20	<0 22
Benzo(k)fluoranthene	<0 24	<0 22	<0 28	<0.20	<0 22	<0.20	<0 22
Chrysene	<0.24	<0.22	<0 28	<0.20	<0.22	<0.20	<0 22
Dibenzo(a,h)anthracene	<0.24	<0 22	<0.28	<0.20	<0.22	<0.20	<0.22
Fluoranthene	<0.24	<0.22	<0 28	<0.20	<0 22	<0.20	<0.22
Fluorene	<0.24	<0.22	<0.28	<0.20	<0.22	<0.20	<0.22
Indeno(1,2,3-c,d)pyrene	<0.24	<0.22	<0.28	<0 20	<0.22	<0.20	<0.22
1-Methylnaphthalene	<0 24	<0.22	<0.28	<0.20	<0.22	<0.20	<0.22
2-Methylnaphthalene	<0.24	<0.22	<0.28	<0 20	<0.22	<0.20	<0.22
Naphthalene	<0 24	<0.22	<0.28	<0.20	<0 22	<0.20	<0.22
Phenanthrene	<0.24	<0.22	<0.28	<0.20	<0 22	<0.20	<0.22
Pyrene	<0.24	<0 22	<0.28	<0.20	<0.22	<0.20	<0 22

Notes:
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 12
Summary of Groundwater Sample Analytical Results
SVOCs

Boring ID	SB38	QCEB	QCEB	QCEB	QCEB
Sample ID	SB38-GW-122110	QCEB-121810	QCEB-121910	QCEB-122010	QCEB-122110
Sample Date	12/21/10	12/18/10	12/19/10	12/20/10	12/21/10
EPA Method	8270C	8270C	8270C	8270C	8270C
Units	ug/l	ug/l	ug/l	ug/l	ug/l
Acenaphthene	<0.21	<0.20	<0.20	<0.20	<0.20
Acenaphthylene	<0.21	<0.20	<0.20	<0 20	<0 20
Anthracene	<0.21	<0.20	<0.20	<0.20	<0 20
Benzo(a)anthracene	<0 21	<0.20	<0.20	<0.20	<0.20
Benzo(a)pyrene	<0 21	<0 20	<0.20	<0.20	<0.20
Benzo(b)fluoranthene	<0.21	<0.20	<0.20	<0.20	<0.20
Benzo(g,h,i)perylene	<0 21	<0.20	<0.20	<0.20	<0.20
Benzo(k)fluoranthene	<0 21	<0.20	<0.20	<0.20	<0.20
Chrysene	<0.21	<0 20	<0.20	<0.20	<0.20
Dibenzo(a,h)anthracene	<0.21	<0.20	<0.20	<0.20	<0.20
Fluoranthene	<0.21	<0.20	<0.20	<0 20	<0.20
Fluorene	<0.21	<0.20	<0.20	<0.20	<0.20
Indeno(1,2,3-c,d)pyrene	<0.21	<0.20	<0.20	<0.20	<0.20
1-Methylnaphthalene	<0.21	<0.20	<0.20	<0.20	<0.20
2-Methylnaphthalene	<0.21	<0.20	<0.20	<0.20	<0.20
Naphthalene	<0 21	<0.20	**0.81**	<0.20	<0.20
Phenanthrene	<0 21	<0.20	<0.20	<0.20	<0.20
Pyrene	<0.21	<0.20	<0.20	<0 20	<0.20

Notes:
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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SDG&E Tidelands Area
San Diego, California

Table 13
Summary of Groundwater Sample Analytical Results
PCBs / PCTs

February 28, 2011
Revised May 24, 2011
Project No 106942001

Boring ID	SB01	SB03	SB08	SB10	SB15	SB16	SB18
Sample ID	SB01-GW-121810	SB03-GW-121810	SB08-GW-121810	SB10-GW-121910	SB15-GW-122110	SB16-GW-122110	SB18-GW-122010
Sample Date	12/18/10	12/18/10	12/18/10	12/19/10	12/21/10	12/21/10	12/20/10
EPA Method	8082	8082	8082	8082	8082	8082	8082
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Aroclor 1016	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2
Aroclor 1221	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2
Aroclor 1232	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2
Aroclor 1242	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2
Aroclor 1248	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2
Aroclor 1254	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2
Aroclor 1260	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2
Aroclor 1262	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2
Aroclor 5460	<1.0	<1.0	<1.0	<1.0	<1.0	<1.3	<1.2

Notes:
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 13
Summary of Groundwater Sample Analytical Results
PCBs / PCTs

Boring ID	SB21	SB28	SB30	SB31	SB33	SB34	SB36
Sample ID	SB21-GW-122010	SB28-GW-122010	SB30-GW-122010	SB31-GW-122110	SB33-GW-121910	SB34-GW-121910	SB36-GW-121910
Sample Date	12/20/10	12/20/10	12/20/10	12/21/10	12/19/10	12/19/10	12/19/10
EPA Method	8082	8082	8082	8082	8082	8082	8082
Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Aroclor 1016	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
Aroclor 1221	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
Aroclor 1232	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
Aroclor 1242	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
Aroclor 1248	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
Aroclor 1254	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
Aroclor 1260	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
Aroclor 1262	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0
Aroclor 5460	<1.2	<1.0	<1.0	<1.1	<1.0	<1.0	<1.0

Notes:
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 13
Summary of Groundwater Sample Analytical Results
PCBs / PCTs

Boring ID	SB38	QCEB	QCEB	QCEB	QCEB
Sample ID	SB38-GW-122110	QCEB-121810	QCEB-121910	QCEB-122010	QCEB-122110
Sample Date	12/21/10	12/18/10	12/19/10	12/20/10	12/21/10
EPA Method	8082	8082	8082	8082	8082
Units	ug/l	ug/l	ug/l	ug/l	ug/l
Aroclor 1016	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 1221	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 1232	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 1242	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 1248	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 1254	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 1260	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 1262	<1.0	<1.0	<1.0	<1.0	<1.0
Aroclor 5460	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:
ug/l = micrograms per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 14
Summary of Groundwater Analytical Results
Title 22 Metals

Boring ID	SB01	SB03	SB08	SB10	SB15	SB16	SB18
Sample ID	SB01-GW-121810	SB03-GW-121810	SB08-GW-121810	SB10-GW-121910	SB15-GW-122110	SB16-GW-122110	SB18-GW-122010
Sample Date	12/18/10	12/18/10	12/18/10	12/19/10	12/21/10	12/21/10	12/20/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Antimony	<0.0150	**0.0150**	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	**0.0599**	**0.0415**	**0.0353**	**0.0238**	**0.0590**	**0.0588**	**0.0493**
Barium	**0.807**	**0.255**	**0.113**	**0.758**	**0.221**	**0.257**	**0.197**
Beryllium	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cadmium	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chromium	<0.0100	<0.0100	<0.0100	<0.0100	**0.0132**	**0.0190**	**0.0136**
Cobalt	**0.100**	**0.0637**	0.0134	**0.0603**	**0.0185**	**0.0258**	**0.0458**
Copper	<0.0100	**0.0262**	<0.0100	**0.0239**	<0.0100	**0.0143**	**0.0108**
Lead	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	**0.0446**	**0.0286**	**0.0377**	**0.0497**	**0.0361**	**0.0226**	**0.0514**
Nickel	**0.0518**	**0.0744**	**0.0171**	**0.268**	**0.0272**	**0.0328**	**0.0984**
Selenium	<0.0150	<0.0150	<0.0150	<0.0150	**0.0175**	**0.0241**	**0.0188**
Silver	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	**0.00539**	<0.00500
Thallium	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	**0.0169**	**0.0584**	<0.0100	**0.103**	**0.0228**	**0.0520**	**0.0455**
Zinc	**0.162**	**0.117**	**0.0223**	**0.136**	**0.0704**	**0.0779**	**0.190**

Notes:
mg/l = milligrams per liter
<X = the constituent was not detected
at or above the indicated detection limit

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SDG&E Tidelands Area
San Diego, California

Table 14
Summary of Groundwater Analytical Results
Title 22 Metals

February 28, 2011
Revised May 24, 2011
Project No. 106942001

Boring ID	SB21	SB28	SB30	SB31	SB33	SB34	SB36
Sample ID	SB21-GW-122010	SB28-GW-122010	SB30-GW-122010	SB31-GW-122110	SB33-GW-121910	SB34-GW-121910	SB36-GW-121910
Sample Date	12/20/10	12/20/10	12/20/10	12/21/10	12/19/10	12/19/10	12/19/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Antimony	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	**0.0501**	**0.0541**	**0.0418**	**0.0782**	**0.0310**	**0.0481**	**0.0394**
Barium	**0.326**	**0.246**	**0.193**	**0.813**	**0.231**	**0.148**	**0.244**
Beryllium	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Cadmium	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
Chromium	**0.0209**	**0.0169**	<0.0100	**0.124**	<0.0100	<0.0100	<0.0100
Cobalt	**0.0447**	**0.0304**	**0.0213**	**0.0629**	**0.0424**	**0.0512**	**0.0163**
Copper	**0.0407**	**0.0163**	<0.0100	**0.533**	<0.0100	<0.0100	<0.0100
Lead	**0.0250**	<0.0100	<0.0100	**0.0784**	<0.0100	<0.0100	<0.0100
Mercury	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	**0.0512**	**0.0576**	**0.0323**	**0.0450**	**0.0945**	**0.0298**	**0.0699**
Nickel	**0.0569**	**0.0319**	**0.0272**	**0.0897**	**0.0820**	**0.0564**	**0.0297**
Selenium	<0.0150	**0.0165**	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	**0.0246**	**0.0415**	**0.0101**	**0.209**	<0.0100	**0.0156**	**0.0249**
Zinc	**0.366**	**0.0697**	**0.0987**	**0.381**	**0.131**	**0.0991**	**0.0546**

Notes:
mg/l = milligrams per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 14
Summary of Groundwater Analytical Results
Title 22 Metals

Boring ID	SB38	QCEB	QCEB	QCEB	QCEB
Sample ID	SB38-GW-122110	QCEB-121810	QCEB-121910	QCEB-122010	QCEB-122110
Sample Date	12/21/10	12/18/10	12/19/10	12/20/10	12/21/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/l	mg/l	mg/l	mg/l	mg/l
Antimony	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Arsenic	**0.389**	<0.0100	<0.0100	<0.0100	<0.0100
Barium	**4.85**	<0.0100	<0.0100	<0.0100	<0.0100
Beryllium	**0.0134**	<0.0100	<0.0100	<0.0100	<0.0100
Cadmium	**0.0102**	<0.0100	<0.0100	<0.0100	<0.0100
Chromium	**1.27**	<0.0100	<0.0100	<0.0100	<0.0100
Cobalt	**0.248**	<0.0100	<0.0100	<0.0100	<0.0100
Copper	**16.5**	<0.0100	<0.0100	<0.0100	<0.0100
Lead	**1.15**	<0.0100	<0.0100	<0.0100	<0.0100
Mercury	**0.00340**	<0.000500	<0.000500	<0.000500	<0.000500
Molybdenum	**0.0241**	<0.0100	<0.0100	<0.0100	<0.0100
Nickel	**0.344**	<0.0100	<0.0100	<0.0100	<0.0100
Selenium	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Silver	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Thallium	<0.0150	<0.0150	<0.0150	<0.0150	<0.0150
Vanadium	**1.71**	<0.0100	<0.0100	<0.0100	<0.0100
Zinc	***3.60***	***0.0259***	<0.0100	<0.0100	<0.0100

Notes:
mg/l = milligrams per liter
<X = the constituent was not detected
at or above the indicated detection limit.

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Table 15
Summary of Cooling Water Tunnel Sediment Samples
TPH

Boring ID	DT01	DT02A	DT02B	IT01	IT02
Sample Depth Interval (ft bgs)	00.0	00.0	00.0	00.0	00.0
Sample ID	DT-01-122910	DT-02A-122910	DT-02B-122910	IT-01-122910	IT-02-122910
Sample Date	12/29/10	12/29/10	12/29/10	12/29/10	12/29/10
EPA Method	8015B	8015B	8015B	8015B	8015B
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
C06	<29	<93	<15	<33	<13
C07	<29	<93	<15	<33	<13
C08	<29	<93	<15	<33	<13
C09-C10	<29	<93	<15	<33	<13
C11-C12	<29	<93	<15	<33	<13
C13-C14	<29	**530**	<15	<33	<13
C15-C16	<29	**2300**	<15	**37**	<13
C17-C18	<29	**3500**	**32**	**90**	**26**
C19-C20	<29	**3500**	**33**	**110**	**25**
C21-C22	<29	**2200**	**26**	**88**	**24**
C23-C24	<29	**1600**	**29**	**66**	**27**
C25-C28	<29	**2200**	**43**	**72**	**42**
C29-C32	<29	**2700**	**86**	**160**	**67**
C33-C36	<29	**2000**	**78**	**120**	**42**
C37-C40	<29	**1400**	**70**	**110**	**41**
C41-C44	<29	**550**	**56**	**85**	**28**
C6-C44 Total	<29	**23000**	**470**	**940**	**330**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.
The sample extract was subject to Silica Gel
Cleanup prior to extract.
The total concentration includes individual
carbon range concentrations (estimated),
if any , reported below the RL as ND

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Table 16
Summary of Cooling Water Tunnel Sediment Samples
VOCs

Sample ID	DT-01-122910	DT-02A-122910	IT-02-122910
Sample Date	12/29/10	12/29/10	12/29/10
EPA Method	8260B	8260B	8260B
Units	ug/kg	ug/kg	ug/kg
Acetone	<350	<440	<190
Benzene	15	<8.8	<3.9
Bromobenzene	<6.9	<8.8	<3.9
Bromochloromethane	<14	<18	<7.8
Bromoform	<35	<44	<19
Bromomethane	<140	<180	<78
n-Butylbenzene	<6.9	<8.8	<3.9
sec-Butylbenzene	<6.9	<8.8	<3.9
Carbon disulfide	<69	<88	<39
Carbon Tetrachloride	<6.9	<8.8	<3.9
Chlorobenzene	<6.9	<8.8	<3.9
Chloroethane	<14	<18	<7.8
Chloroform	<6.9	<8.8	<3.9
Chloromethane	<140	<180	<78
2-Chlorotoluene	<6.9	<8.8	<3.9
4-Chlorotoluene	<6.9	<8.8	<3.9
1,2-Dibromo-3-chloropropane	<35	<44	<19
Dibromochloromethane	<14	<18	<7.8
1,2-Dibromoethane (EDB)	<6.9	<8.8	<3.9
Dibromomethane	<6.9	<8.8	<3.9
1,2-Dichlorobenzene	<6.9	<8.8	<3.9
1,3-Dichlorobenzene	<6.9	<8.8	<3.9
1,4-Dichlorobenzene	<6.9	<8.8	<3.9
Dichlorobromomethane	<6.9	<8.8	<3.9
1,1-Dichloroethane	<6.9	<8.8	<3.9
1,2-Dichloroethane	<6.9	<8.8	<3.9
1,1-Dichloroethene	<6.9	<8.8	<3.9
cis-1,2-Dichloroethene	<6.9	<8.8	<3.9
trans-1,2-Dichloroethene	<6.9	<8.8	<3.9
1,2-Dichloropropane	<6.9	<8.8	<3.9
1,3-Dichloropropane	<6.9	<8.8	<3.9
2,2-Dichloropropane	<35	<44	<19
1,1-Dichloropropene	<14	<18	<7.8
cis-1,3-Dichloropropene	<6.9	<8.8	<3.9
trans-1,3-Dichloropropene	<14	<18	<7.8
Ethylbenzene	<6.9	<8.8	<3.9
Freon 11 (Trichlorofluoromethane)	<69	<88	<39
Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethan	<69	<88	<39
Freon 12 (Dichlorodifluoromethane)	<14	<18	<7.8
2-Hexanone	<140	<180	<78
Isopropylbenzene	<6.9	<8.8	<3.9
p-Isopropyltoluene	<6.9	<8.8	<3.9
Methyl Ethyl Ketone	<140	<180	<78
Methyl isobutyl ketone (MIBK)	<140	<180	<78
Methyl Tert-butyl ether (MTBE)	<14	<18	<7.8
Methylene chloride	<69	<88	<39
Naphthalene	<69	<88	<39
n-Propylbenzene	<14	<18	<7.8
Styrene	<6.9	<8.8	<3.9
tert-Butylbenzene	<6.9	<8.8	<3.9
1,1,1,2-Tetrachloroethane	<6.9	<8.8	<3.9
1,1,2,2-Tetrachloroethane	<14	<18	<7.8
Tetrachloroethene	<6.9	<8.8	<3.9
Toluene	<6.9	<8.8	<3.9
1,2,3-Trichlorobenzene	<14	<18	<7.8
1,2,4-Trichlorobenzene	<14	<18	<7.8
1,1,1-Trichloroethane	<6.9	<8.8	<3.9
1,1,2-Trichloroethane	<6.9	<8.8	<3.9
Trichloroethene	<14	<18	<7.8
1,2,3-Trichloropropane	<14	<18	<7.8
1,2,4-Trimethylbenzene	<14	<18	<7.8
1,3,5-Trimethylbenzene	<14	<18	<7.8
Vinyl Acetate	<69	<88	<39
Vinyl Chloride	<6.9	<8.8	<3.9
m,p-Xylene	<14	<18	<7.8
o-Xylene	<6.9	<8.8	<3.9

Notes.
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = *the constituent was not detected*
at or above the indicated detection limit

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Table 17
Summary of Cooling Water Tunnel Sediment Samples
SVOCs

Sample ID	DT-01-122910	DT-02A-122910	DT-02B-122910	IT-01-122910	IT-02-122910
Sample Date	12/29/10	12/29/10	12/29/10	12/29/10	12/29/10
EPA Method	8270C	8270C	8270C	8270C	8270C
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acenaphthene	<0.12	<0.074	<0.061	<0.027	<0.054
Acenaphthylene	<0.12	<0.074	**0.11**	**0.043**	**0.10**
Anthracene	<0.12	**0.19**	**0.16**	**0.087**	**0.16**
Benzo(a)anthracene	<0.12	**0.089**	**0.28**	**0.045**	**0.17**
Benzo(a)pyrene	<0.12	**0.15**	**0.52**	**0.17**	**0.38**
Benzo(b)fluoranthene	<0.12	**0.19**	**0.65**	**0.28**	**0.51**
Benzo(g,h,i)perylene	<0.12	**0.11**	**0.29**	**0.071**	**0.21**
Benzo(k)fluoranthene	<0.12	**0.11**	**0.45**	**0.13**	**0.23**
Chrysene	<0.12	**0.17**	**0.46**	**0.095**	**0.43**
Dibenzo(a,h)anthracene	<0.12	<0.074	**0.090**	<0.027	**0.064**
Fluoranthene	<0.12	**0.14**	**0.33**	**0.098**	**0.19**
Fluorene	<0.12	<0.074	<0.061	<0.027	<0.054
Indeno(1,2,3-c,d)pyrene	<0.12	**0.080**	**0.27**	**0.057**	**0.19**
1-Methylnaphthalene	<0.12	<0.074	<0.061	<0.027	<0.054
2-Methylnaphthalene	<0.12	<0.074	<0.061	<0.027	**0.079**
Naphthalene	<0.12	<0.074	<0.061	<0.027	<0.054
Phenanthrene	<0.12	**0.16**	**0.14**	**0.086**	**0.14**
Pyrene	<0.12	**0.31**	**0.43**	**0.15**	**0.27**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Table 18
Summary of Cooling Water Tunnel Sediment Samples
PCBs/PCTs

Sample ID	DT-01-122910	DT-02A-122910	DT-02B-122910	IT-01-122910	IT-02-122910
Sample Date	12/29/10	12/29/10	12/29/10	12/29/10	12/29/10
EPA Method	8082/8082M	8082/8082M	8082/8082M	8082/8082M	8082/8082M
Units	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*	*ug/kg*
Aroclor 1016	<290	<190	<150	<67	<130
Aroclor 1221	<290	<190	<150	<67	<130
Aroclor 1232	<290	<190	<150	<67	<130
Aroclor 1242	<290	<190	<150	<67	<130
Aroclor 1248	<290	<190	<150	<67	<130
Aroclor 1254	<290	**640**	**550**	**190**	**230**
Aroclor 1260	<290	**660**	**500**	**170**	**220**
Aroclor 1262	<290	<190	<150	<67	<130
Aroclor 5460	<290	**310**	**490**	**170**	**260**

Notes:
ug/kg = micrograms per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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Table 19
Summary of Cooling Water Tunnel Sediment Samples
Metals

Sample ID	DT-01-122910	DT-02A-122910	DT-02B-122910	IT-01-122910	IT-02-122910
Sample Date	12/29/10	12/29/10	12/29/10	12/29/10	12/29/10
EPA Method	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A	6010B/7471A
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	<4.36	<2.78	<2.29	<1.00	<2.02
Arsenic	**44.6**	**14.2**	**30.5**	**8.55**	**32.8**
Barium	**123**	**67.4**	**154**	**56.9**	**125**
Beryllium	<1.45	<0.926	0.874	<0.333	0.723
Cadmium	<2.91	<1.85	<1.53	<0.667	<1.34
Chromium	**65.9**	**75.2**	**109**	**18.1**	**89.4**
Cobalt	**12.4**	**10.6**	**22.5**	**7.46**	**18.6**
Copper	**114**	**466**	**961**	**159**	**699**
Lead	**38.3**	**110**	**228**	**55.0**	**170**
Mercury	<0.485	**0.847**	**2.07**	**0.216**	**1.06**
Molybdenum	**35.2**	**2.84**	**3.58**	**2.33**	**3.51**
Nickel	**24.2**	**17.1**	**33.6**	**18.3**	**26.6**
Selenium	<4.36	<2.78	<2.29	<1.00	<2.02
Silver	<1.45	<0.926	**0.951**	<0.333	**1.69**
Thallium	<4.36	<2.78	<2.29	<1.00	<2.02
Vanadium	**87.1**	**60.0**	**132**	**43.1**	**136**
Zinc	**190**	**511**	**885**	**382**	**869**

Notes:
mg/kg = milligrams per kilogram
ft = feet
bgs = below ground surface
<X = the constinuent was not detected
at or above the indicated detection limit.

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APPENDIX A

APPROVED DEH BORING PERMITS

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
TELEPHONE: 858-505-6805/ 800-253-9933 FAX: 858-505-6805
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

RECEIVED
FEB 16 2011
NINYO & MOORE
SAN DIEGO OFFICE

February 10, 2011

Ninyo & Moore
Attn: Stephan Beck
5710 Ruffin Rd.
San Diego, Ca 92123

Gregg Drilling and Testing, Inc.
Attn: Joanna McKeehan
2726 Walnut Avenue
Signal Hill, CA 90755

Dear Mr. Beck and Ms. McKeehan:

MONITORING WELL PERMIT COMPLIANCE
SAN DIEGO PORT DISTRICT PROPERTY
FOOT OF SAMPSON ST., SOUTH OF BELT ST., SAN DIEGO, CA 92113
A.P.N. 760-022-06-00 PERMIT #LMON107327 ESTAB. # NONE

On January 21, 2011, staff of the Department of Environmental Health (DEH), Monitoring Well Program (MWP) received the investigative fee of $446.00 and the signed pages of the application form requested in the Official Notice dated January 5, 2011.

At this time, the issues outlined in that Notice have been corrected. Thank you for your cooperation. If I can be of further assistance, please feel free to contact me .

Sincerely,

Marisue Crystal
Environmental Health Technician
Monitoring Well Program
Phone: (858) 505-6669

Enclosure

cc: Bill Hays, San Diego Unified Port District

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CORRECTED
PERMIT #LMON107327
A.P.N. #760-022-06 (adjacent to)
EST #H13942

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
MONITORING WELL PROGRAM

SOIL BORING CONSTRUCTION PERMIT

SITE NAME: SAN DIEGO PORT DISTRICT PROPERTY

SITE ADDRESS: FOOT OF SAMPSON ST, SOUTH OF BELT ST., SAN DIEGO, CA 92113

PERMIT FOR: **70 SOIL BORINGS**

PERMIT APPROVAL DATE: AUGUST 30, 2010

PERMIT EXPIRES ON: DECEMBER 28, 2010

RESPONSIBLE PARTY: SAN DIEGO UNIFIED PORT DISTRICT

PERMIT CONDITIONS:

1. All borings must be sealed from the bottom of the boring to the ground surface with an approved sealing material as specified in California Well Standards Bulletin 74-90, Part III, Section 19.D. **Drill cuttings are not an acceptable fill material.**

2. All borings must be properly destroyed within 24 hours of drilling.

3. Placement of any sealing material at a depth greater than 30 feet must be done using the tremie method.

4. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, E- 4. (**http://www.sdcounty.ca.gov/deh/lwq/sam/manual_guidelines.html**). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.

5. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.

6. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 619) 338-2339.

NOTE: **This permit does not constitute approval of a work plan as defined in Section 2722 of Article 11 of C.C.R., Title 23. Work plans are required for all unauthorized release investigations in San Diego County.**

APPROVED BY: M. Crystal DATE: 8.30.2010
MARISUE CRYSTAL

NOTIFIED: _____
DEH: SAM-9075

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APPENDIX B

GEOPHYSICAL SURVEY REPORT

SOUTHWEST
GEOPHYSICS, INC.
YOUR SUBSURFACE SOLUTION

January 14, 2011
Proposal No. 110336

Mr. Scott Lutz
Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123

Subject: Geophysical Services
BAE Systems
San Diego, California

Dear Mr. Lutz:

In accordance with your authorization, we are pleased to submit this letter-report pertaining to our geophysical survey services at the BAE Systems property located in San Diego, California (Figure 1). Specifically, our services included delineating the presence of detectable underground utilities in the area of 43 proposed boreholes at the site. This report presents our survey methodology, equipment used, analysis, and findings from our study.

Our scope of services for the project included performance of a geophysical survey, analysis of the data collected, and preparation of this letter-report. The geophysical survey included the use of a GSSI SIR 3000 ground penetrating radar (GPR) with a 400 MHz transducer, Schonstedt GA-52 magnetic gradiometer, Geonics model EM61 time domain instrument, RD4000 line tracer, and M-Scope TW6 pipe and cable locator. Roughly a 10-foot by 10-foot area centered about the proposed borehole locations were surveyed, access permitting. In many cases surface objects (i.e., buildings, vehicles, storage containers, etc.) limited the survey area.

Interpretation of the collected data took place in real time as the survey progressed. The results of our survey were marked on the ground surface with paint and reported to your field representative at the time of our survey. Based on the results, a preferential boring location was marked on the ground surface with pink paint. It should be noted that the depth of radar penetration was on the order of 3 feet and that non metallic objects deeper than the penetration depth may not be detected.

8057 Raytheon Road, Suite 9 • San Diego • California 92111 • Telephone 858-527-0849 • Fax 858-225-0114

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The field evaluation and geophysical analyses presented in this report have been conducted in general accordance with current practice and the standard of care exercised by consultants performing similar tasks in the project area. No warranty, expressed or implied, is made regarding the conclusions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be present. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface surveying can be performed upon request.

Please note that our evaluation was limited to the assessment of the possible presence of detectable underground utilities, and that "USA" or "Dig Alert" should also be contacted prior to conducting subsurface exploration activities. In addition, we recommend that available utility plans/drawings for the project site be reviewed as appropriate.

Southwest Geophysics, Inc. should be contacted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document. This report is intended exclusively for use by the client. Any use or reuse of this report by parties other than the client is undertaken at said parties' sole risk.

We appreciate the opportunity to be of service on this project. Should you have any questions please contact the undersigned at your convenience.

Sincerely,
SOUTHWEST GEOPHYSICS, INC.

Afrildo Iko Syahrial
Senior Staff Geophysicist

Hans van de Vrugt, C.E.G., R.Gp.
Principal Geologist/Geophysicist

HV/AIS/hv
Distribution: Addressee (electronic)

8057 Raytheon Road, Suite 9 • San Diego • California 92111 • Telephone 858-527-0849 • Fax 858.225-0114

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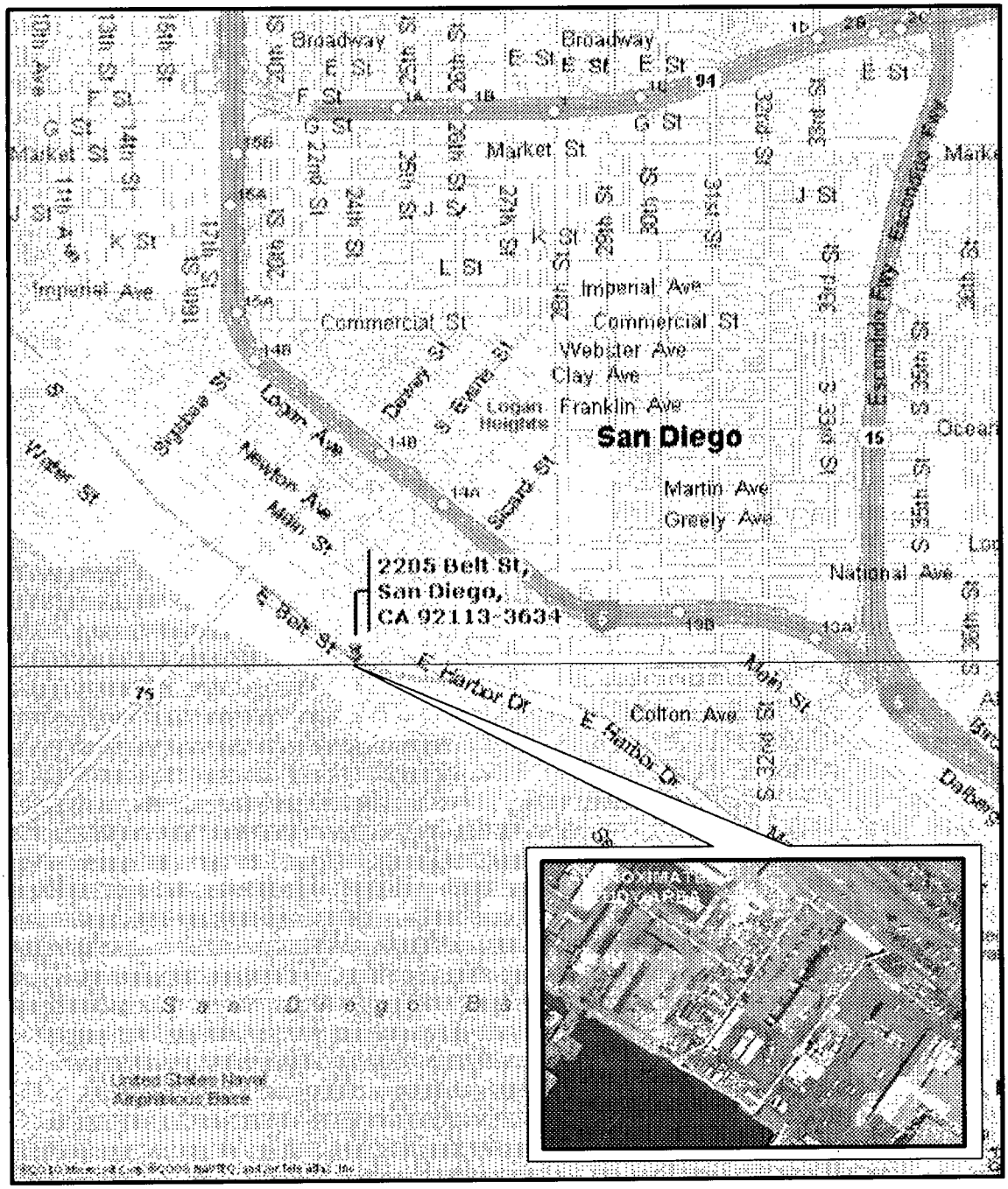

SITE LOCATION MAP	N	BAE Systems San Diego, California	SOUTHWEST GEOSCIENCES INC
		Project No : 110336 / Date: 01/11	Figure 1

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APPENDIX C

ENVIRONMENTAL DATABASE REPORT

400 East Belt St
400 East Belt St
San Diego, CA 92113

Inquiry Number: 4069684.2s
September 18, 2014

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

400 EAST BELT ST
SAN DIEGO, CA 92113

COORDINATES

Latitude (North):	32.6933000 - 32° 41' 35.88"
Longitude (West):	117.1450000 - 117° 8' 42.00"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	486407.7
UTM Y (Meters):	3617106.2
Elevation:	18 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	32117-F2 POINT LOMA, CA
Most Recent Revision:	1994

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20120519
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL---------- National Priority List

Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls
LUCIS..... Land Use Control Information System

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

CA RESPONSE..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

INDIAN UST..... Underground Storage Tanks on Indian Land
FEMA UST..... Underground Storage Tank Listing

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

ODI..... Open Dump Inventory
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
CA HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
CA WMUDS/SWAT..... Waste Management Unit Database

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
CA HIST Cal-Sites..... Historical Calsites Database
CA Toxic Pits..... Toxic Pits Cleanup Act Sites
CA CDL..... Clandestine Drug Labs

US HIST CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST ..... Facility Inventory Database

Local Land Records

LIENS 2 ..... CERCLA Lien Information
CA LIENS ..... Environmental Liens Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CA MCS ..... Military Cleanup Sites Listing
CA SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOT OPS ..... Incident and Accident Data
DOD ..... Department of Defense Sites
FUDS ..... Formerly Used Defense Sites
CONSENT ..... Superfund (CERCLA) Consent Decrees
ROD ..... Records Of Decision
UMTRA ..... Uranium Mill Tailings Sites
US MINES ..... Mines Master Index File
TSCA ..... Toxic Substances Control Act
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS ..... Section 7 Tracking Systems
MLTS ..... Material Licensing Tracking System
RADINFO ..... Radiation Information Database
RAATS ..... RCRA Administrative Action Tracking System
RMP ..... Risk Management Plans
CA BOND EXP. PLAN ..... Bond Expenditure Plan
CA UIC ..... UIC Listing
CA Cortese ..... "Cortese" Hazardous Waste & Substances Sites List
CA CUPA Listings ..... CUPA Resources List
CA DRYCLEANERS ..... Cleaner Facilities
CA WIP ..... Well Investigation Program Case List
INDIAN RESERV ..... Indian Reservations
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
CA Financial Assurance ..... Financial Assurance Information Listing
CA MWMP ..... Medical Waste Management Program Listing
2020 COR ACTION ..... 2020 Corrective Action Program List
LEAD SMELTERS ..... Lead Smelter Sites
US FIN ASSUR ..... Financial Assurance Information
PCB TRANSFORMER ..... PCB Transformer Registration Database
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
COAL ASH DOE ..... Steam-Electric Plant Operation Data
EPA WATCH LIST ..... EPA WATCH LIST

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ..... EDR Proprietary Manufactured Gas Plants

EDR US Hist Cleaners..... EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF..... Recovered Government Archive Solid Waste Facilities List
CA RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MASTER PLATING	***2109 NEWTON AVE***	***NNE 1/4 - 1/2 (0.275 mi.)***	***M87***	***493***

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there are

10 CERC-NFRAP sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KELCO DIVISION OF MERCK & CO.,	2145 EAST BELT	NNE 0 - 1/8 (0.007 mi.)	A4	30
CONTINENTAL OF SAN DIEGO, INC.	***1995 BAY FRONT***	***N 0 - 1/8 (0.028 mi.)***	***A11***	***72***
SOUTHWEST MARINE	2205 EAST BELT (FOOT OF	E 0 - 1/8 (0.044 mi.)	B24	121
PACIFIC TREATMENT CORP	***2190 MAIN ST***	***NE 1/8 - 1/4 (0.202 mi.)***	***G55***	***356***
CLEANING DYNAMICS CORP	***2146 MAIN ST***	***NNE 1/8 - 1/4 (0.202 mi.)***	***H63***	***391***
BARRIO SENIOR VILLAS	***2330 NEWTON AVE***	***ENE 1/4 - 1/2 (0.326 mi.)***	***P94***	***504***
ALLEN, WILLIS M.	1902 NATIONAL AVE.	N 1/4 - 1/2 (0.454 mi.)	Z119	558
PROLINE PAINT STORE	2646 MAIN ST.	E 1/4 - 1/2 (0.467 mi.)	AA123	580
SUPERIOR CRANE AND RIGGING, IN	1779 MAIN STREET	NNW 1/4 - 1/2 (0.494 mi.)	132	621
INDUSTRIAL METALS & SALVAGE CO	***1345 SOUTH 27TH ST.***	***E 1/4 - 1/2 (0.497 mi.)***	***AA135***	***641***

Federal RCRA CORRACTS facilities list

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/11/2014 has revealed that there are 2 CORRACTS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC TREATMENT CORP	***2190 MAIN ST***	***NE 1/8 - 1/4 (0.202 mi.)***	***G55***	***356***
PACIFIC TREATMENT	***1668 NATIONAL AVENUE***	***NNW 1/2 - 1 (0.683 mi.)***	***AB142***	***654***

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 03/11/2014 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC TREATMENT CORP	***2190 MAIN ST***	***NE 1/8 - 1/4 (0.202 mi.)***	***G55***	***356***

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or

dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/11/2014 has revealed that there are 18 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CNRSW PORT OPS BROW REFURBISHM	***2145 E BELT ST***	***NNE 0 - 1/8 (0.007 mi.)***	***A1***	***8***
SWRMC/SUPSHIP USN, AT CMSD	1995 BAY FRONT STREET	N 0 - 1/8 (0.028 mi.)	A7	62
SOUTHWEST MARINE, INC.(CMSD-PR	1995 BAY FRONT STREET	N 0 - 1/8 (0.028 mi.)	A9	69
SOUTHWEST MARINE	1995 BAYFRONT STREET	N 0 - 1/8 (0.028 mi.)	A10	71
CONTINENTAL OF SAN DIEGO, INC.	***1995 BAY FRONT***	***N 0 - 1/8 (0.028 mi.)***	***A11***	***72***
CONTINENTAL MARITIME OF SAN DI	1995 BAYFRONT STREET	N 0 - 1/8 (0.028 mi.)	A12	84
BAE SYSTEMS CMSD	1995 BAY FRONT STREET	N 0 - 1/8 (0.028 mi.)	A15	90
CONTINENTAL MARTIME NASSCO	***1995 BAY FRONT ST PIER***	***N 0 - 1/8 (0.028 mi.)***	***A16***	***94***
SWRMC/SUPSHIP USN, AT BAE SYST	FOOT OF SAMPSON STREET	E 0 - 1/8 (0.040 mi.)	B18	100
BAE SYSTEMS SAN DIEGO SHIP REP	***2205 EAST BELT STREET***	***E 0 - 1/8 (0.044 mi.)***	***B21***	***105***
BAE SYSTEMS SHIPYARD	2205 E BELT ST	E 0 - 1/8 (0.044 mi.)	B22	114
BAE SYSTEMS (NASSCO)	2205 E BELT STREET	E 0 - 1/8 (0.044 mi.)	B26	128
NATIONAL STEEL AND SHIP BUILDI	2205 E BELT STREET BLDG	E 0 - 1/8 (0.044 mi.)	B28	169
BAE SYSTEMS SAN DIEGO SHIP REP	***1401 SAMPSON STREET***	***ENE 0 - 1/8 (0.050 mi.)***	***B29***	***171***
SAN DIEGO GAS & ELEC SILVERGAT	***1348 SAMPSON STREET***	***ENE 0 - 1/8 (0.080 mi.)***	***C34***	***202***
CP KELCO	***2025 EAST HARBOR DRIVE***	***N 1/8 - 1/4 (0.169 mi.)***	***E42***	***259***
SAN DIEGO MARKETING TERMINAL	***2295 E HARBOR DRIVE***	***E 1/8 - 1/4 (0.197 mi.)***	***F44***	***287***
CHEVRON SAN DIEGO TERMINAL 100	***2351 E HARBOR DR.***	***E 1/8 - 1/4 (0.248 mi.)***	***L77***	***441***

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/11/2014 has revealed that there are 6 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BUMBLE BEE SEAFOODS	***1995 BAYFRONT***	***N 0 - 1/8 (0.028 mi.)***	***A8***	***66***
SOUTHBAY SANDBLASTING AND TANK	***1995 BAYFRONT ST PIER 1***	***N 0 - 1/8 (0.028 mi.)***	***A14***	***89***
PACIFIC SHIP REPAIR AND FABRIC	***2205 E BELT ST***	***E 0 - 1/8 (0.044 mi.)***	***B25***	***122***
SDG&E TANKS 801 & 802	***2141 MAIN ST***	***NNE 1/8 - 1/4 (0.201 mi.)***	***H53***	***351***
PACIFIC TREATMENT CORP	***2190 MAIN ST***	***NE 1/8 - 1/4 (0.202 mi.)***	***G55***	***356***
CLEANING DYNAMICS CORP	***2146 MAIN ST***	***NNE 1/8 - 1/4 (0.202 mi.)***	***H63***	***391***

RCRA-CESQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-CESQG list, as provided by EDR, and dated 03/11/2014 has revealed that there is

1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PERFORMANCE CONTRACTING, INC	***2015 MAIN ST***	***N 1/8 - 1/4 (0.246 mi.)***	***K72***	***415***

State- and tribal - equivalent CERCLIS

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 06/05/2014 has revealed that there are 16 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ISP ALGINATES Status: Inactive - Needs Evaluation Status: Refer: 1248 Local Agency	***2145 E BELT ST***	***NNE 0 - 1/8 (0.007 mi.)***	***A2***	***12***
CONTINENTAL MARITIME OF SAN DI Status: Inactive - Needs Evaluation	***1995 BAY FRONT STREET***	***N 0 - 1/8 (0.028 mi.)***	***A6***	***44***
CHEVRON HARBOR TERMINAL-LOWER Status: Refer: 1248 Local Agency	***2295 BELT STREET***	***ESE 1/8 - 1/4 (0.152 mi.)***	***D37***	***207***
CP KELCO Status: Refer: 1248 Local Agency	***2025 EAST HARBOR DRIVE***	***N 1/8 - 1/4 (0.169 mi.)***	***E42***	***259***
CLEANING DYNAMICS/PACIFIC TREA Status: Refer: RCRA	***2190 MAIN STREET***	***NE 1/8 - 1/4 (0.202 mi.)***	***G57***	***370***
PACIFIC TREATMENT CORP Status: Inactive - Needs Evaluation	***2146 MAIN ST***	***NNE 1/8 - 1/4 (0.202 mi.)***	***H60***	***382***
MASTER PLATING Status: Inactive - Needs Evaluation	***2109 NEWTON AVE***	***NNE 1/4 - 1/2 (0.275 mi.)***	***M85***	***477***
BARRIO STATION INC Status: Refer: Other Agency	***2320 NEWTON AV***	***ENE 1/4 - 1/2 (0.326 mi.)***	***P93***	***502***
CESAR CHAVEZ CAMPUS Status: Refer: 1248 Local Agency	***1901 MAIN STREET***	***NNW 1/4 - 1/2 (0.355 mi.)***	***R106***	***536***
BURBANK ELEMENTARY EXPANSION Status: Certified	***2146 JULIAN AVENUE***	***NE 1/2 - 1 (0.562 mi.)***	***136***	***644***
CENTER CITY TOWING Status: Refer: RCRA	***1668 NATIONAL AV***	***NNW 1/2 - 1 (0.683 mi.)***	***AB141***	***651***
SDUSD - MAINTENANCE Status: Refer: RWQCB	***1826 IRVING AV***	***N 1/2 - 1 (0.751 mi.)***	***143***	***661***
GRAYBILL TERMINAL(FORMER) Status: Refer: 1248 Local Agency	1551 NATIONAL AVENUE	NNW 1/2 - 1 (0.784 mi.)	144	669
GIFFORD'S BARRELS Status: Refer: Other Agency	2606 COMMERCIAL STREET	NNE 1/2 - 1 (0.874 mi.)	145	670

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STUDIO 15	***70 15TH STREET***	***NNW 1/2 - 1 (0.881 mi.)***	***146***	***671***
Status: Certified / Operation & Maintenance				

Lower Elevation	Address	Direction / Distance	Map ID	Page
NATIONAL STEEL & SHIPBUILDING	HARBOR DRIVE & 28TH STR	ESE 1/2 - 1 (0.565 mi.)	137	648
Status: Active				

State and tribal landfill and/or solid waste disposal site lists

CA SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the CA SWF/LF list, as provided by EDR, and dated 05/19/2014 has revealed that there is 1 CA SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALTRANS DISTRICT 11-CORONADO	***1995 NEWTON AVE***	***N 1/4 - 1/2 (0.343 mi.)***	***S102***	***529***

State and tribal leaking storage tank lists

CA LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the CA LUST list, as provided by EDR, and dated 07/30/2014 has revealed that there are 44 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ISP ALGINATES	***2145 E BELT ST***	***NNE 0 - 1/8 (0.007 mi.)***	***A2***	***12***
Status: Completed - Case Closed				
ISP ALGINATES INC	***2145 BELT ST E***	***NNE 0 - 1/8 (0.007 mi.)***	***A3***	***23***
CONTINENTAL MARITIME OF S D	***1995 BAYFRONT ST***	***N 0 - 1/8 (0.028 mi.)***	***A5***	***31***
Status: Completed - Case Closed				
CONTINENTAL OF SAN DIEGO, INC.	***1995 BAY FRONT***	***N 0 - 1/8 (0.028 mi.)***	***A11***	***72***
SOUTHWEST MARINE INC.	***FOOT OF SAMPSON ST***	***E 0 - 1/8 (0.044 mi.)***	***B23***	***116***
SILVERGATE POWER PLANT	***1348 SAMPSON ST***	***ENE 0 - 1/8 (0.080 mi.)***	***C32***	***190***
Status: Open - Site Assessment				
Status: Completed - Case Closed				
ARCO	***2295 HARBOR DR E***	***E 1/8 - 1/4 (0.197 mi.)***	***F47***	***307***
Status: Completed - Case Closed				
Status: Open - Remediation				
ARCO TERMINAL	2295 HARBOR DR E	E 1/8 - 1/4 (0.197 mi.)	F48	346
ARCO GAS TERMINAL	2295 HARBOR DR E	E 1/8 - 1/4 (0.197 mi.)	F49	346
TANK #801 & #802 *	***2141 MAIN ST***	***NNE 1/8 - 1/4 (0.201 mi.)***	***H54***	***352***
Status: Completed - Case Closed				

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CLEANING DYNAMICS/PACIFIC TREA	***2190 MAIN STREET***	***NE 1/8 - 1/4 (0.202 mi.)***	***G57***	***370***
Status: Open - Remediation				
SOUTHWEST MARINE	***2201-2399 MAIN ST***	***NE 1/8 - 1/4 (0.203 mi.)***	***G65***	***393***
CHEVRON USA INC.	***2351 E HARBOR DR***	***E 1/8 - 1/4 (0.229 mi.)***	***F67***	***395***
Status: Open - Remediation				
SAN DIEGO MUSEUM OF ART	***2286 MAIN ST***	***ENE 1/8 - 1/4 (0.246 mi.)***	***J71***	***410***
Status: Completed - Case Closed				
CHEVRON USA INC. - HARBOR DR E	***2351 HARBOR DR E***	***E 1/8 - 1/4 (0.248 mi.)***	***L75***	***438***
P&L KNEPP TRUCKING	***2001 MAIN ST***	***N 1/4 - 1/2 (0.254 mi.)***	***K78***	***446***
Status: Completed - Case Closed				
RESTAURANT DEPOT	1335 CESAR E CHAVEZ WAY	NNW 1/4 - 1/2 (0.256 mi.)	79	450
Status: Completed - Case Closed				
SAN DIEGO EXPRESS INC	***2304 MAIN ST***	***ENE 1/4 - 1/2 (0.262 mi.)***	***J81***	***456***
Status: Completed - Case Closed				
CARLSON AND BEAULOYE	***2141 NEWTON AVE***	***NE 1/4 - 1/2 (0.272 mi.)***	***M82***	***457***
CARLSON & BEAULOYE MACHINE SHO	***2141 NEWTON AVE***	***NE 1/4 - 1/2 (0.272 mi.)***	***M83***	***459***
Status: Completed - Case Closed				
PRAXAIR	***2205 NEWTON AV***	***NE 1/4 - 1/2 (0.275 mi.)***	***84***	***475***
Status: Completed - Case Closed				
A.O. REED	1990 MAIN ST	N 1/4 - 1/2 (0.287 mi.)	N88	495
A O REED	***1990 MAIN ST***	***N 1/4 - 1/2 (0.287 mi.)***	***N89***	***496***
Status: Completed - Case Closed				
SDG&E	***2043 NEWTON AV***	***NNE 1/4 - 1/2 (0.297 mi.)***	***O90***	***498***
Status: Completed - Case Closed				
MAAC PRO ECT, SDG&E	2043 NEWTON AVE	NNE 1/4 - 1/2 (0.297 mi.)	O91	500
TUNA CLIPPER MARINE	***1444 CROSBY ST***	***NNW 1/4 - 1/2 (0.328 mi.)***	***Q95***	***506***
Status: Completed - Case Closed				
TUNA CLIPPER	1444 CROSBY ST	NNW 1/4 - 1/2 (0.328 mi.)	Q96	509
SANTA FE RAILWAY	***1342 CROSBY ST***	***NNW 1/4 - 1/2 (0.328 mi.)***	***Q97***	***509***
BNSF SAN DIEGO RAILYARD	***1342 CROSBY ST***	***NNW 1/4 - 1/2 (0.328 mi.)***	***Q98***	***511***
Status: Open - Site Assessment				
Status: Completed - Case Closed				
CITY OF S.D. PARKING LOT	***2183 NATIONAL AVE***	***NE 1/4 - 1/2 (0.343 mi.)***	***T103***	***530***
CALIFORNIA METAL FORMING	***2183 NATIONAL AV***	***NE 1/4 - 1/2 (0.343 mi.)***	***T104***	***533***
Status: Completed - Case Closed				
LUIS COMANJA AUTO SERVICE	***2295 NATIONAL AV***	***ENE 1/4 - 1/2 (0.371 mi.)***	***110***	***543***
Status: Completed - Case Closed				
SAN DIEGO EXPRESS	***2635 LOGON ST***	***ENE 1/4 - 1/2 (0.438 mi.)***	***X116***	***549***
Status: Completed - Case Closed				
SAN DIEGO EXPRESS INC	***2635 LOGAN AVE***	***ENE 1/4 - 1/2 (0.438 mi.)***	***X117***	***552***
SOUTHWEST COACHES INC	***1902 NATIONAL AV***	***N 1/4 - 1/2 (0.454 mi.)***	***Z120***	***558***
SOUTHWEST COACHES, INC.	***1902 NATIONAL AVE***	***N 1/4 - 1/2 (0.454 mi.)***	***Z121***	***561***
Status: Completed - Case Closed				
PRO-LINE PAINTS COMPANY	***2646 MAIN STREET***	***E 1/4 - 1/2 (0.467 mi.)***	***AA122***	***564***
Status: Completed - Case Closed				
BETTENCOURT AUTO BODY	***1865 NATIONAL***	***N 1/4 - 1/2 (0.486 mi.)***	***Z125***	***605***
J J AUTO BODY	***2694 MAIN ST***	***E 1/4 - 1/2 (0.488 mi.)***	***AA127***	***607***
Status: Completed - Case Closed				

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MARKEL-JOHNSON POULTRY CO INC Status: Completed - Case Closed	***2697 MAIN ST***	***E 1/4 - 1/2 (0.488 mi.)***	***AA129***	***611***
FIRE RESCUE- FIRE STATION #07 Status: Completed - Case Closed	***944 CROSBY ST***	***N 1/4 - 1/2 (0.491 mi.)***	***Z131***	***616***
ABC CONSTRUCTION CO Status: Completed - Case Closed	***2665 NATIONAL AVENUE***	***ENE 1/4 - 1/2 (0.495 mi.)***	***133***	***621***
IMS RECYCLING SERVICES INC Status: Completed - Case Closed	***1345 SOUTH 27TH ST***	***E 1/4 - 1/2 (0.497 mi.)***	***AA134***	***631***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PORT OF SAN DIEGO Status: Completed - Case Closed	***1875 WATER ST***	***NW 1/4 - 1/2 (0.453 mi.)***	***Y118***	***554***

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the CA SLIC list, as provided by EDR, and dated 07/30/2014 has revealed that there are 29 CA SLIC sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ISP ALGINATES Facility Status: Completed - Case Closed Facility Status: Open - Site Assessment	***2145 E BELT ST***	***NNE 0 - 1/8 (0.007 mi.)***	***A2***	***12***
CONTINENTAL MARITIME OF SAN DI Facility Status: Completed - Case Closed	***1995 BAY FRONT STREET***	***N 0 - 1/8 (0.028 mi.)***	***A6***	***44***
SAN DIEGO BAY SHIPYARD SEDIMEN Facility Status: Open - Site Assessment	***2205 EAST BELT STREET***	***E 0 - 1/8 (0.044 mi.)***	***B27***	***130***
SILVERGATE POWER PLANT Facility Status: Open - Site Assessment	***1348 SAMPSON ST***	***ENE 0 - 1/8 (0.080 mi.)***	***C32***	***190***
CHEVRON PIPELINE RUPTURE Facility Status: Completed - Case Closed	BELT STREET	ESE 1/8 - 1/4 (0.150 mi.)	D36	207
KELCO Facility Status: Completed - Case Closed	***2025 HARBOR DR***	***N 1/8 - 1/4 (0.169 mi.)***	***E40***	***255***
ARCO Facility Status: Completed - Case Closed	***2295 HARBOR DR E***	***E 1/8 - 1/4 (0.197 mi.)***	***F47***	***307***
CHEVRON USA INC. Facility Status: Completed - Case Closed Facility Status: Open - Site Assessment	***2351 E HARBOR DR***	***E 1/8 - 1/4 (0.229 mi.)***	***F67***	***395***
SAN DIEGO MUSEUM OF ART Facility Status: Completed - Case Closed	***2286 MAIN ST***	***ENE 1/8 - 1/4 (0.246 mi.)***	***J71***	***410***
FORMER UNOCAL PIPELINE Facility Status: Open - Site Assessment	NONE CROSBY & BAY FRONT	NW 1/4 - 1/2 (0.299 mi.)	92	501
BARRIO STATION INC Facility Status: Completed - Case Closed	***2320 NEWTON AV***	***ENE 1/4 - 1/2 (0.326 mi.)***	***P93***	***502***
TUNA CLIPPER MARINE Facility Status: Completed - Case Closed	***1444 CROSBY ST***	***NNW 1/4 - 1/2 (0.328 mi.)***	***Q95***	***506***
BNSF SAN DIEGO RAILYARD Facility Status: Completed - Case Closed	***1342 CROSBY ST***	***NNW 1/4 - 1/2 (0.328 mi.)***	***Q98***	***511***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FORDS & FOREIGN AUTO PARTS Facility Status: Completed - Case Closed	***2335 NEWTON AV***	***ENE 1/4 - 1/2 (0.330 mi.)***	***P99***	***525***
DORMANS TIRE CO Facility Status: Completed - Case Closed	***2385 MAIN ST***	***E 1/4 - 1/2 (0.332 mi.)***	***100***	***526***
MERCADO COMMERCIAL CENTER Facility Status: Completed - Case Closed	***1920 MAIN ST***	***N 1/4 - 1/2 (0.340 mi.)***	***R101***	***528***
CESAR CHAVEZ CAMPUS Facility Status: Open - Site Assessment Facility Status: Completed - Case Closed	***1901 MAIN STREET***	***NNW 1/4 - 1/2 (0.355 mi.)***	***R106***	***536***
MEDLAND CONTROLS INC Facility Status: Completed - Case Closed	***2393 NEWTON AV***	***ENE 1/4 - 1/2 (0.361 mi.)***	***U107***	***540***
MERCADO DEL BARRIO Facility Status: Completed - Case Closed	CESAR CHAVEZ PARKWAY ANN	1/4 - 1/2 (0.365 mi.)	S109	541
JOHNSON TRUCK REPAIR & PAINT Facility Status: Completed - Case Closed	***1931 NEWTON AV***	***N 1/4 - 1/2 (0.381 mi.)***	***V111***	***546***
SAN DIEGO HOUSING COMMISSION Facility Status: Completed - Case Closed	2650-52 BOSTON AV	E 1/4 - 1/2 (0.427 mi.)	W113	547
CROSBY ST CORRIDOR Facility Status: Completed - Case Closed	NONE CROSBY ST	N 1/4 - 1/2 (0.429 mi.)	V114	548
SEE CASE H39637-002 - MERCADO Facility Status: Completed - Case Closed	NONE NATIONAL AVENUE	N 1/4 - 1/2 (0.429 mi.)	V115	548
SOUTHWEST COACHES, INC. Facility Status: Open - Site Assessment	***1902 NATIONAL AVE***	***N 1/4 - 1/2 (0.454 mi.)***	***Z121***	***561***
URBAN CORPS OF SAN DIEGO Facility Status: Completed - Case Closed	***1864 NATIONAL AV***	***N 1/4 - 1/2 (0.488 mi.)***	***Z126***	***606***
FIRE RESCUE- FIRE STATION #07 Facility Status: Completed - Case Closed	***944 CROSBY ST***	***N 1/4 - 1/2 (0.491 mi.)***	***Z131***	***616***
ABC CONSTRUCTION CO Facility Status: Completed - Case Closed	***2665 NATIONAL AVENUE***	***ENE 1/4 - 1/2 (0.495 mi.)***	***133***	***621***

Lower Elevation	Address	Direction / Distance	Map ID	Page
PORT OF SAN DIEGO Facility Status: Open - Site Assessment	***1875 WATER ST***	***NW 1/4 - 1/2 (0.453 mi.)***	***Y118***	***554***
FREIGHT HANDLERS INC Facility Status: Completed - Case Closed	***1790 WATER ST***	***NW 1/4 - 1/2 (0.489 mi.)***	***Y130***	***615***

CA SAN DIEGO CO. SAM: The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

A review of the CA SAN DIEGO CO. SAM list, as provided by EDR, and dated 03/23/2010 has revealed that there are 41 CA SAN DIEGO CO. SAM sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CNRSW PORT OPS BROW REFURBISHM	***2145 E BELT ST***	***NNE 0 - 1/8 (0.007 mi.)***	***A1***	***8***
CONTINENTAL MARITIME OF S D	***1995 BAYFRONT ST***	***N 0 - 1/8 (0.028 mi.)***	***A5***	***31***
CONTINENTAL OF SAN DIEGO, INC.	***1995 BAY FRONT***	***N 0 - 1/8 (0.028 mi.)***	***A11***	***72***

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOUTHWEST MARINE INC	1427 W SAMPSON ST	ENE 0 - 1/8 (0.040 mi.)	B19	104
SILVERGATE POWER PLANT	*1348 SAMPSON ST*	*ENE 0 - 1/8 (0.080 mi.)*	*C32*	*190*
CP KELCO	*2025 HARBOR DR*	*N 1/8 - 1/4 (0.169 mi.)*	*E39*	*210*
ARCO	*2295 HARBOR DR E*	*E 1/8 - 1/4 (0.197 mi.)*	*F47*	*307*
*TANK #801 & #802 **	*2141 MAIN ST*	*NNE 1/8 - 1/4 (0.201 mi.)*	*H54*	*352*
AMERICAN KELP	*2190 MAIN ST*	*NE 1/8 - 1/4 (0.202 mi.)*	*G59*	*379*
SOUTHWEST MARINE	*2286 MAIN ST*	*ENE 1/8 - 1/4 (0.246 mi.)*	*J70*	*409*
SAN DIEGO MUSEUM OF ART	*2286 MAIN ST*	*ENE 1/8 - 1/4 (0.246 mi.)*	*J71*	*410*
CHEVRON USA INC.	*2351 E HARBOR DR*	*E 1/8 - 1/4 (0.248 mi.)*	*L73*	*417*
CHEVRON USA INC.	*2351 HARBOR DR*	*E 1/8 - 1/4 (0.248 mi.)*	*L74*	*437*
P&L KNEPP TRUCKING	*2001 MAIN ST*	*N 1/4 - 1/2 (0.254 mi.)*	*K78*	*446*
SAN DIEGO EXPRESS INC	*2304 MAIN ST*	*ENE 1/4 - 1/2 (0.262 mi.)*	*J80*	*452*
CARLSON & BEAULOYE MACHINE SHO	*2141 NEWTON AVE*	*NE 1/4 - 1/2 (0.272 mi.)*	*M83*	*459*
PRAXAIR	*2205 NEWTON AV*	*NE 1/4 - 1/2 (0.275 mi.)*	*84*	*475*
A O REED	*1990 MAIN ST*	*N 1/4 - 1/2 (0.287 mi.)*	*N89*	*496*
SDG&E	*2043 NEWTON AV*	*NNE 1/4 - 1/2 (0.297 mi.)*	*O90*	*498*
BARRIO STATION INC	*2320 NEWTON AV*	*ENE 1/4 - 1/2 (0.326 mi.)*	*P93*	*502*
TUNA CLIPPER MARINE	*1444 CROSBY ST*	*NNW 1/4 - 1/2 (0.328 mi.)*	*Q95*	*506*
FORDS & FOREIGN AUTO PARTS	*2335 NEWTON AV*	*ENE 1/4 - 1/2 (0.330 mi.)*	*P99*	*525*
DORMANS TIRE CO	*2385 MAIN ST*	*E 1/4 - 1/2 (0.332 mi.)*	*100*	*526*
MERCADO COMMERCIAL CENTER	*1920 MAIN ST*	*N 1/4 - 1/2 (0.340 mi.)*	*R101*	*528*
CALIFORNIA METAL FORMING	*2183 NATIONAL AV*	*NE 1/4 - 1/2 (0.343 mi.)*	*T104*	*533*
FORMER NATIONAL PUMP AND INJEC	1901 MAIN ST	NNW 1/4 - 1/2 (0.355 mi.)	R105	536
CESAR CHAVEZ CAMPUS	*1901 MAIN STREET*	*NNW 1/4 - 1/2 (0.355 mi.)*	*R106*	*536*
MEDLAND CONTROLS INC	*2393 NEWTON AV*	*ENE 1/4 - 1/2 (0.361 mi.)*	*U107*	*540*
JOHNSON TRUCK REPAIR & PAINT	*1931 NEWTON AV*	*N 1/4 - 1/2 (0.381 mi.)*	*V111*	*546*
SAN DIEGO HOUSING COMMISSION	*2650 BOSTON AV*	*E 1/4 - 1/2 (0.427 mi.)*	*W112*	*547*
SAN DIEGO EXPRESS	*2635 LOGON ST*	*ENE 1/4 - 1/2 (0.438 mi.)*	*X116*	*549*
SOUTHWEST COACHES INC	*1902 NATIONAL AV*	*N 1/4 - 1/2 (0.454 mi.)*	*Z120*	*558*
PRO-LINE PAINTS COMPANY	*2646 MAIN STREET*	*E 1/4 - 1/2 (0.467 mi.)*	*AA122*	*564*
USCG SECTOR SAN DIEGO	*2710 HARBOR DR*	*ESE 1/4 - 1/2 (0.469 mi.)*	*124*	*581*
URBAN CORPS OF SAN DIEGO	*1864 NATIONAL AV*	*N 1/4 - 1/2 (0.488 mi.)*	*Z126*	*606*
J J AUTO BODY	2694 MAIN ST	E 1/4 - 1/2 (0.488 mi.)	AA128	611
MARKEL-JOHNSON POULTRY CO INC	*2697 MAIN ST*	*E 1/4 - 1/2 (0.488 mi.)*	*AA129*	*611*
ABC CONSTRUCTION CO	*2665 NATIONAL AVENUE*	*ENE 1/4 - 1/2 (0.495 mi.)*	*133*	*621*
IMS RECYCLING SERVICES INC	*1345 SOUTH 27TH ST*	*E 1/4 - 1/2 (0.497 mi.)*	*AA134*	*631*

Lower Elevation	Address	Direction / Distance	Map ID	Page
PORT OF SAN DIEGO	*1875 WATER ST*	*NW 1/4 - 1/2 (0.453 mi.)*	*Y118*	*554*
FREIGHT HANDLERS INC	*1790 WATER ST*	*NW 1/4 - 1/2 (0.489 mi.)*	*Y130*	*615*

State and tribal registered storage tank lists

CA UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the CA UST list, as provided by EDR, and dated 07/30/2014 has revealed that there are 3 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CNRSW PORT OPS BROW REFURBISHM	*2145 E BELT ST*	*NNE 0 - 1/8 (0.007 mi.)*	*A1*	*8*

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ARCO SAN DIEGO TERMINAL	***2295 HARBOR DR***	***E 1/8 - 1/4 (0.197 mi.)***	***F43***	***287***
CHEVRON USA INC.	***2351 HARBOR DR***	***E 1/8 - 1/4 (0.248 mi.)***	***L74***	***437***

CA AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the CA AST list, as provided by EDR, and dated 08/01/2009 has revealed that there are 3 CA AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CONTINENTAL MARITIME OF S D, I	1995 BAYFRONT ST	N 0 - 1/8 (0.028 mi.)	A13	88
BAE SYSTEMS SAN DIEGO SHIP REP	***1401 SAMPSON ST***	***ENE 0 - 1/8 (0.050 mi.)***	***B30***	***177***
CHEVRON USA INC.	***2351 E HARBOR DR***	***E 1/8 - 1/4 (0.248 mi.)***	***L73***	***417***

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 07/01/2014 has revealed that there is 1 US BROWNFIELDS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MASTER PLATING	2109 NEWTON AVENUE	NNE 1/4 - 1/2 (0.275 mi.)	M86	491

Local Lists of Landfill / Solid Waste Disposal Sites

CA SWRCY: A listing of recycling facilities in California.

A review of the CA SWRCY list, as provided by EDR, and dated 06/16/2014 has revealed that there are 2 CA SWRCY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RECON RECYCLING CENTER	2393 NEWTON AVE STE A	ENE 1/4 - 1/2 (0.361 mi.)	U108	541
IMS RECYCLING SERVICES INC	***1345 SOUTH 27TH ST***	***E 1/4 - 1/2 (0.497 mi.)***	***AA134***	***631***

Local Lists of Registered Storage Tanks

CA HIST UST: Historical UST Registered Database.

A review of the CA HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there

are 8 CA HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ISP ALGINATES	***2145 E BELT ST***	***NNE 0 - 1/8 (0.007 mi.)***	***A2***	***12***
BUMBLE BEE SEAFOODS	***1995 BAYFRONT***	***N 0 - 1/8 (0.028 mi.)***	***A8***	***66***
SOUTHWEST MARINE, INC.	2205 E BELT ST	E 0 - 1/8 (0.044 mi.)	B20	104
SILVER GATE POWER PLANT	1348 SAMPSON ST	ENE 0 - 1/8 (0.080 mi.)	C33	201
ARCO SAN DIEGO TERMINAL	***2295 HARBOR DR***	***E 1/8 - 1/4 (0.197 mi.)***	***F45***	***304***
MAIN STREET YARD	2141 MAIN ST	NE 1/8 - 1/4 (0.200 mi.)	H52	350
WILLIG FREIGHT LINES	2286 MAIN ST	ENE 1/8 - 1/4 (0.246 mi.)	J69	409
CHEVRON SAN DIEGO TERMINAL 100	***2351 E HARBOR DR.***	***E 1/8 - 1/4 (0.248 mi.)***	***L77***	***441***

CA SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the CA SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 12 CA SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ISP ALGINATES	***2145 E BELT ST***	***NNE 0 - 1/8 (0.007 mi.)***	***A2***	***12***
CONTINENTAL MARITIME OF S D	***1995 BAYFRONT ST***	***N 0 - 1/8 (0.028 mi.)***	***A5***	***31***
BAE SYSTEMS (MSD)	***1401 SAMPSON ST***	***ENE 0 - 1/8 (0.050 mi.)***	***B31***	***177***
SILVERGATE POWER PLANT	***1348 SAMPSON ST***	***ENE 0 - 1/8 (0.080 mi.)***	***C32***	***190***
S D UNIFIED PORT DIST AT0192	***2025 BELT ST***	***N 1/8 - 1/4 (0.169 mi.)***	***E41***	***258***
ARCO	***2295 HARBOR DR E***	***E 1/8 - 1/4 (0.197 mi.)***	***F47***	***307***
SKYHOOK METAL DESIGNS	***2191 MAIN ST***	***NE 1/8 - 1/4 (0.200 mi.)***	***G51***	***347***
TANK #801 & #802 *	***2141 MAIN ST***	***NNE 1/8 - 1/4 (0.201 mi.)***	***H54***	***352***
PACIFIC TREATMENT DIVISION	2190 MAIN ST 1	NE 1/8 - 1/4 (0.202 mi.)	G58	377
SOUTHWEST MARINE	***2201-2399 MAIN ST***	***NE 1/8 - 1/4 (0.203 mi.)***	***G65***	***393***
SAN DIEGO MUSEUM OF ART	***2286 MAIN ST***	***ENE 1/8 - 1/4 (0.246 mi.)***	***J71***	***410***
CHEVRON USA INC.	***2351 E HARBOR DR***	***E 1/8 - 1/4 (0.248 mi.)***	***L73***	***417***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/11/2014 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BAY DECKING COMPANY INC	***1995 BAY FRONT ST***	***N 0 - 1/8 (0.028 mi.)***	***A17***	***98***
PROPULSION CONTROLS ENGINEERIN	1304 SAMPSON ST	NE 0 - 1/8 (0.124 mi.)	C35	205
CLEANING DYNAMICS CORP	***2146 MAIN ST***	***NNE 1/8 - 1/4 (0.202 mi.)***	***H61***	***388***
MARINE BARGE SERVICES INC	2146 MAIN ST	NNE 1/8 - 1/4 (0.202 mi.)	H62	390

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 27 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ISP ALGINATES INC	*2145 BELT ST E*	*NNE 0 - 1/8 (0.007 mi.)*	*A3*	*23*
CONTINENTAL MARITIME OF SAN DI	*1995 BAY FRONT STREET*	*N 0 - 1/8 (0.028 mi.)*	*A6*	*44*
SOUTHWEST MARINE INC.	*FOOT OF SAMPSON ST*	*E 0 - 1/8 (0.044 mi.)*	*B23*	*116*
SILVERGATE POWER PLANT	*1348 SAMPSON ST*	*ENE 0 - 1/8 (0.080 mi.)*	*C32*	*190*
ARCO	*2295 HARBOR DR E*	*E 1/8 - 1/4 (0.197 mi.)*	*F47*	*307*
*TANK #801 & #802 **	*2141 MAIN ST*	*NNE 1/8 - 1/4 (0.201 mi.)*	*H54*	*352*
CLEANING DYNAMICS/PACIFIC TREA	*2190 MAIN STREET*	*NE 1/8 - 1/4 (0.202 mi.)*	*G57*	*370*
SAN DIEGO MUSEUM OF ART	*2286 MAIN ST*	*ENE 1/8 - 1/4 (0.246 mi.)*	*J71*	*410*
CHEVRON USA INC. - HARBOR DR E	*2351 HARBOR DR E*	*E 1/8 - 1/4 (0.248 mi.)*	*L75*	*438*
P&L KNEPP TRUCKING	*2001 MAIN ST*	*N 1/4 - 1/2 (0.254 mi.)*	*K78*	*446*
SAN DIEGO EXPRESS INC	*2304 MAIN ST*	*ENE 1/4 - 1/2 (0.262 mi.)*	*J81*	*456*
CARLSON & BEAULOYE MACHINE SHO	*2141 NEWTON AVE*	*NE 1/4 - 1/2 (0.272 mi.)*	*M83*	*459*
A O REED	*1990 MAIN ST*	*N 1/4 - 1/2 (0.287 mi.)*	*N89*	*496*
SDG&E	*2043 NEWTON AV*	*NNE 1/4 - 1/2 (0.297 mi.)*	*O90*	*498*
TUNA CLIPPER MARINE	*1444 CROSBY ST*	*NNW 1/4 - 1/2 (0.328 mi.)*	*Q95*	*506*
BNSF SAN DIEGO RAILYARD	*1342 CROSBY ST*	*NNW 1/4 - 1/2 (0.328 mi.)*	*Q98*	*511*
CALIFORNIA METAL FORMING	*2183 NATIONAL AV*	*NE 1/4 - 1/2 (0.343 mi.)*	*T104*	*533*
SAN DIEGO EXPRESS	*2635 LOGON ST*	*ENE 1/4 - 1/2 (0.438 mi.)*	*X116*	*549*
SOUTHWEST COACHES, INC.	*1902 NATIONAL AVE*	*N 1/4 - 1/2 (0.454 mi.)*	*Z121*	*561*
PRO-LINE PAINTS COMPANY	*2646 MAIN STREET*	*E 1/4 - 1/2 (0.467 mi.)*	*AA122*	*564*
BETTENCOURT AUTO BODY	*1865 NATIONAL*	*N 1/4 - 1/2 (0.486 mi.)*	*Z125*	*605*
J J AUTO BODY	*2694 MAIN ST*	*E 1/4 - 1/2 (0.488 mi.)*	*AA127*	*607*
MARKEL-JOHNSON POULTRY CO INC	*2697 MAIN ST*	*E 1/4 - 1/2 (0.488 mi.)*	*AA129*	*611*
FIRE RESCUE- FIRE STATION #07	*944 CROSBY ST*	*N 1/4 - 1/2 (0.491 mi.)*	*Z131*	*616*
ABC CONSTRUCTION CO	*2665 NATIONAL AVENUE*	*ENE 1/4 - 1/2 (0.495 mi.)*	*133*	*621*
IMS RECYCLING SERVICES INC	*1345 SOUTH 27TH ST*	*E 1/4 - 1/2 (0.497 mi.)*	*AA134*	*631*

Lower Elevation	Address	Direction / Distance	Map ID	Page
PORT OF SAN DIEGO	*1875 WATER ST*	*NW 1/4 - 1/2 (0.453 mi.)*	*Y118*	*554*

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, has revealed that there are 2 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CNRSW PORT OPS BROW REFURBISHM	*2145 E BELT ST*	*NNE 0 - 1/8 (0.007 mi.)*	*A1*	*8*
CONTINENTAL OF SAN DIEGO, INC.	*1995 BAY FRONT*	*N 0 - 1/8 (0.028 mi.)*	*A11*	*72*

CA Notify 65: Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

A review of the CA Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there are 9 CA Notify 65 sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SOUTHWEST MARINE INC.	***FOOT OF SAMPSON ST***	***E 0 - 1/8 (0.044 mi.)***	***B23***	***116***
ABC CONSTRUCTION CO	***2665 NATIONAL AVENUE***	***ENE 1/4 - 1/2 (0.495 mi.)***	***133***	***621***
Not reported	1025 SIGSBEE ST.	NNW 1/2 - 1 (0.638 mi.)	AB138	651
Not reported	1702 NATIONAL AVE	NNW 1/2 - 1 (0.644 mi.)	AB139	651
Not reported	1640 NEWTON AVE	NNW 1/2 - 1 (0.680 mi.)	140	651
28TH AND WEBSTER AVENUE		NE 1/2 - 1 (0.921 mi.)	147	677
24TH ST MARINE TERMINAL	FOOT OF 24TH ST	ESE 1/2 - 1 (0.967 mi.)	AC149	683
MARATHON LAND & CATTLE	***2682 IMPERIAL AV***	***NNE 1/2 - 1 (0.983 mi.)***	***150***	***683***

Lower Elevation	Address	Direction / Distance	Map ID	Page
USS BROOKE FFG1 PIER 1	***32ND ST NAVAL STATION***	***ESE 1/2 - 1 (0.961 mi.)***	***AC148***	***678***

TX Ind. Haz Waste: The Industrial and Hazardous Waste Database contains summary reports by waste handlers, generators and shippers in Texas.

A review of the TX Ind. Haz Waste list, as provided by EDR, has revealed that there is 1 TX Ind. Haz Waste site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC TREATMENT	2190 MAIN ST	NE 1/8 - 1/4 (0.202 mi.)	G56	368

CA HWP: Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

A review of the CA HWP list, as provided by EDR, and dated 05/27/2014 has revealed that there are 2 CA HWP sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PACIFIC TREATMENT CORP	***2146 MAIN ST***	***NNE 1/8 - 1/4 (0.202 mi.)***	***H60***	***382***
PACIFIC TREATMENT	***1668 NATIONAL AVENUE***	***NNW 1/2 - 1 (0.683 mi.)***	***AB142***	***654***

CA PROC: A listing of certified processors.

A review of the CA PROC list, as provided by EDR, and dated 06/16/2014 has revealed that there is 1 CA PROC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
IMS RECYCLING SERVICES INC	***1345 SOUTH 27TH ST***	***E 1/4 - 1/2 (0.497 mi.)***	***AA134***	***631***

CA HWT: A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

A review of the CA HWT list, as provided by EDR, and dated 07/14/2014 has revealed that there is 1 CA HWT site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA MARINE CLEANING, IN	*2049 MAIN ST*	*N 1/8 - 1/4 (0.230 mi.)*	*I68*	*400*

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Auto Stat: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Auto Stat list, as provided by EDR, has revealed that there are 6 EDR US Hist Auto Stat sites within approximately 0.25 miles of the target property.

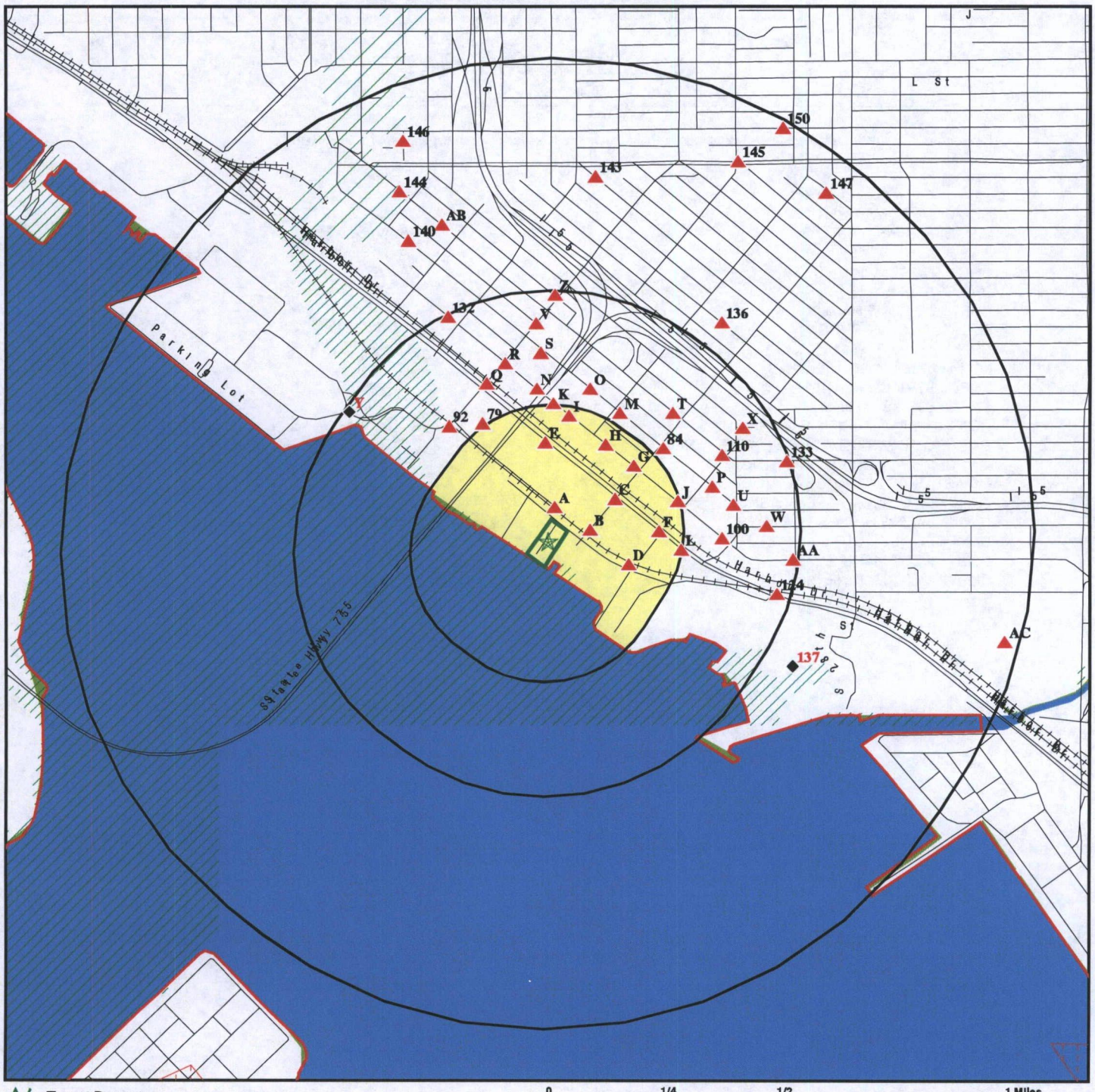
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FISHERMAN S DOCK ARCO MARINE T	1500 SICARD ST	ESE 1/8 - 1/4 (0.160 mi.)	D38	209
Not reported	2295 HARBOR DR	E 1/8 - 1/4 (0.197 mi.)	F46	306
Not reported	2191 MAIN ST	NE 1/8 - 1/4 (0.200 mi.)	G50	347
Not reported	2146 MAIN ST	NNE 1/8 - 1/4 (0.202 mi.)	H64	393
Not reported	2094 MAIN ST	NNE 1/8 - 1/4 (0.215 mi.)	I66	395
Not reported	2351 HARBOR DR	E 1/8 - 1/4 (0.248 mi.)	L76	441

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 20 records.

Site Name	Database(s)
SOUTHWEST MARINE INC.	CA HIST CORTESE
SAN DIEGO PIPELINE CO	CA SWEEPS UST
NASSCO	CA SWEEPS UST
SOUTHWEST MARINE INC	CA UST
BAE SYSTEMS	CA AST
CABRILLO POWER II, LLC	CA AST
ELECTROSOLVE SVCS	RCRA-SQG
SHIP M V ZENITH 8918136	RCRA-SQG, FINDS
MV RHAPSODY OF THE SEAS	RCRA-SQG
SHELL SERVICE STATION - 135897	RCRA-SQG
BAE SYSTEMS NASSCO	RCRA-LQG
CONTINENTAL MARITIME OF SAN DIEGO	RCRA NonGen / NLR
BAY FRONT STREET/CROSBY STREET REL	CA SLIC
LINDBERGH FIELD PLANT - BLDG 75	CA SLIC
NAVISTAR INTERNATIONAL TRANS. CORP	CA SLIC
CABRILLO POWER II LLC DIVISION ST	CA EMI
MTS-PORT DISTRICT SITE CLOSED	CA SAN DIEGO CO. SAM
CAMPBELL INDUSTRIES	CA SAN DIEGO CO. SAM
SOUTHWEST MARINE	CA SAN DIEGO CO. SAM
SOUTHWEST MARINE INC	CA SAN DIEGO CO. SAM

OVERVIEW MAP - 4069684.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

County Boundary

Oil & Gas pipelines from USGS

100-year flood zone

500-year flood zone

National Wetland Inventory

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 400 East Belt St	CLIENT: Ninyo & Moore
ADDRESS: 400 East Belt St San Diego CA 92113	CONTACT: Adrian Olivares
LAT/LONG: 32.6933 / 117.145	INQUIRY #: 4069684.2s DATE: September 18, 2014 12:55 pm

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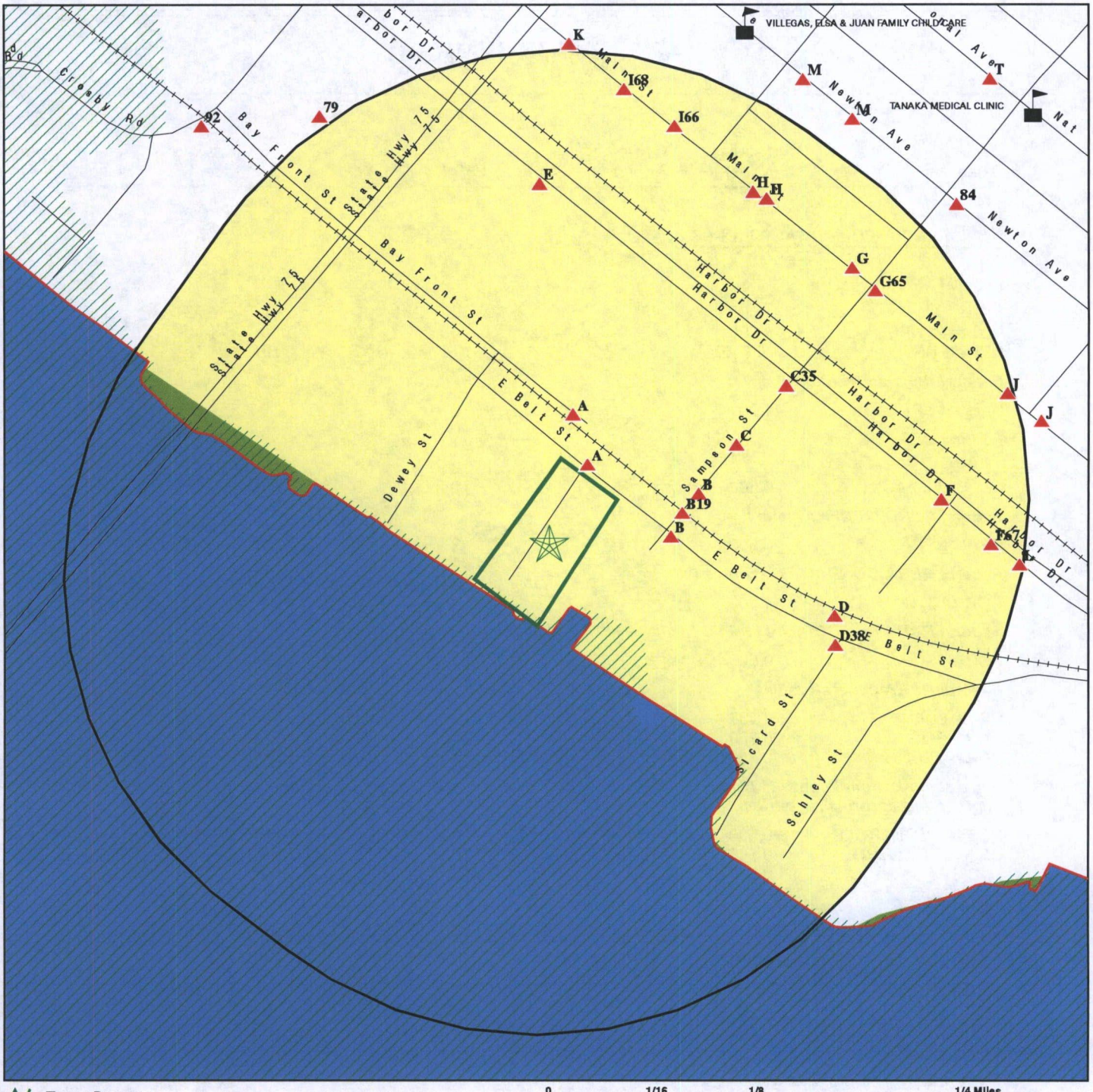
DETAIL MAP - 4069684.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines from USGS
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 400 East Belt St	CLIENT: Ninyo & Moore
ADDRESS: 400 East Belt St San Diego CA 92113	CONTACT: Adrian Olivares
LAT/LONG: 32.6933 / 117.145	INQUIRY #: 4069684.2s DATE: September 18, 2014 12:57 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS	0.500		0	0	1	NR	NR	1
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		3	2	5	NR	NR	10
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	1	0	1	NR	2
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	1	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG	0.250		15	3	NR	NR	NR	18
RCRA-SQG	0.250		3	3	NR	NR	NR	6
RCRA-CESQG	0.250		0	1	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
LUCIS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		2	4	3	7	NR	16
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
CA LUST	0.500		6	9	29	NR	NR	44

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA SLIC	0.500		4	5	20	NR	NR	29
CA SAN DIEGO CO. SAM	0.500		5	8	28	NR	NR	41
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
CA UST	0.250		1	2	NR	NR	NR	3
CA AST	0.250		2	1	NR	NR	NR	3
INDIAN UST	0.250		0	0	NR	NR	NR	0
FEMA UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	1	NR	NR	1
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	2	NR	NR	2
CA HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL	TP		NR	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	0	NR	0
CA SCH	0.250		0	0	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
CA CDL	TP		NR	NR	NR	NR	NR	0
CA San Diego Co. HMMD	TP		NR	NR	NR	NR	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA FID UST	0.250		0	0	NR	NR	NR	0
CA HIST UST	0.250		4	4	NR	NR	NR	8
CA SWEEPS UST	0.250		4	8	NR	NR	NR	12
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
CA LIENS	TP		NR	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA CHMIRS	TP		NR	NR	NR	NR	NR	0
CA LDS	TP		NR	NR	NR	NR	NR	0
CA MCS	TP		NR	NR	NR	NR	NR	0
CA SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	2	NR	NR	NR	4
DOT OPS	TP		NR	NR	NR	NR	NR	0
DOD	1.000		0	0	0	0	NR	0
FUDS	1.000		0	0	0	0	NR	0
CONSENT	1.000		0	0	0	0	NR	0
ROD	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA NPDES	TP		NR	NR	NR	NR	NR	0
CA UIC	TP		NR	NR	NR	NR	NR	0
CA Cortese	0.500		0	0	0	NR	NR	0
CA HIST CORTESE	0.500		4	5	18	NR	NR	27
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		2	0	NR	NR	NR	2
CA Notify 65	1.000		1	0	1	7	NR	9
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA ENF	TP		NR	NR	NR	NR	NR	0
CA HAZNET	TP		NR	NR	NR	NR	NR	0
TX Ind. Haz Waste	0.250		0	1	NR	NR	NR	1
CA EMI	TP		NR	NR	NR	NR	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
CA HWP	1.000		0	1	0	1	NR	2
CA WDS	TP		NR	NR	NR	NR	NR	0
CA Financial Assurance	TP		NR	NR	NR	NR	NR	0
CA PROC	0.500		0	0	1	NR	NR	1
CA MWMP	0.250		0	0	NR	NR	NR	0
CA HWT	0.250		0	1	NR	NR	NR	1
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US AIRS	TP		NR	NR	NR	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	6	NR	NR	NR	6
EDR US Hist Cleaners	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	TP		NR	NR	NR	NR	NR	0
CA RGA LUST	TP		NR	NR	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CNRSW PORT OPS BROW REFURBISHMENT** **RCRA-LQG 1007199198**
NNE **2145 E BELT ST** **CA UST CAD981379415**
< 1/8 **SAN DIEGO, CA 92113** **NY MANIFEST**
0.007 mi. **CA SAN DIEGO CO. SAM**
35 ft. **Site 1 of 17 in cluster A**

Relative:
Higher

Actual:
22 ft.

RCRA-LQG:

Date form received by agency:	06/22/2010
Facility name:	CNRSW PORT OPS BROW REFURBISHMENT
Facility address:	2145 E BELT ST SAN DIEGO, CA 92113
EPA ID:	CAD981379415
Mailing address:	PO BOX 181470 COMMANDER NAVY REGION SW CORONADO, CA 92178-1470
Contact:	CHRISTINA GRAULAU
Contact address:	1220 PACIFIC HWY SAN DIEGO, CA 92132
Contact country:	US
Contact telephone:	619-532-2274
Contact email:	CHRISTINA.GRAULAU@NAVY.MIL
EPA Region:	09
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	RE STAITE ENGINEERING
Owner/operator address:	2145 E BELT ST SAN DIEGO, CA 92113
Owner/operator country:	US
Owner/operator telephone:	619-223-0178
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	05/10/2010
Owner/Op end date:	Not reported

Owner/operator name:	RE STAITE ENGINEERING
Owner/operator address:	2145 E BELT ST SAN DIEGO, CA 92113
Owner/operator country:	US
Owner/operator telephone:	619-223-0178
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	05/10/2010
Owner/Op end date:	Not reported

CNRSW PORT OPS BROW REFURBISHMENT (Continued) **1007199198**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: Not reported

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: Not reported

Historical Generators:
Date form received by agency: 01/23/2007
Site name: ISP ALGINATES INCORPORATED
Classification: Not a generator, verified

Date form received by agency: 11/21/2006
Site name: ISP ALGINATES INCORPORATED
Classification: Not a generator, verified

Date form received by agency: 08/21/2003
Site name: ISP ALGINATES INCORPORATED
Classification: Small Quantity Generator

Date form received by agency: 10/01/2001
Site name: KELCO A UNIT OF MONSANTO CO
Classification: Not a generator, verified

Date form received by agency: 09/01/1996
Site name: KELCO A UNIT OF MONSANTO CO
Classification: Small Quantity Generator

Date form received by agency: 02/29/1996

CNRSW PORT OPS BROW REFURBISHMENT (Continued) **1007199198**

Site name: THE NUTRASWEET KELCO COMPANY
Classification: Large Quantity Generator

Date form received by agency: 04/12/1990
Site name: KELCO DIV OF MERCK & CO, INC
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 352
Waste name: 352

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 01/25/1996
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

UST:
Facility ID: H02377
Latitude: 32.6954195
Longitude: -117.1436726
Permitting Agency: SAN DIEGO COUNTY

NY MANIFEST:
EPA ID: CAD981379415
Country: USA

Mailing Info:
Name: KELCO
Contact: KELCO
Address: P. O. BOX 13216
City/State/Zip: SAN DIEGO, CA 92112
Country: USA
Phone: 619-292-4900

Document ID: NYA6107922
Manifest Status: Completed copy
Trans1 State ID: 703759
Trans2 State ID: X17593
Generator Ship Date: 870421
Trans1 Recv Date: 870421
Trans2 Recv Date: Not reported
TSD Site Recv Date: 870429
Part A Recv Date: 870430
Part B Recv Date: 870506
Generator EPA ID: CAD981379415
Trans1 EPA ID: NYD980769947

CNRSW PORT OPS BROW REFURBISHMENT (Continued) **1007199198**

Trans2 EPA ID: Not reported
TSDF ID: NYD000632372
Waste Code: *D003 - NON-LISTED REACTIVE WASTES*
Quantity: 00003
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100
Year: 87

SAN DIEGO CO. SAM:
Case Number: H02377-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 5/16/1989
Date Began: 11/20/1985

Case Number: H02377-002
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 9/28/1988
Date Began: 7/21/1987

Case Number: H02377-003
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 3/26/1992
Date Began: 1/2/1990

Case Number: H02377-004
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 8/21/1993
Date Began: 8/20/1992

Case Number: H02377-005
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 3/15/2004
Date Began: 3/27/1995

Case Number: H02377-006
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case

CNRSW PORT OPS BROW REFURBISHMENT (Continued) **1007199198**

Date: 3/15/2004
Date Began: 1/13/1994

Case Number: H02377-007
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 8/15/1995
Date Began: 12/6/1993

Case Number: H02377-008
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 8/20/1996
Date Began: 9/18/1995

Case Number: H02377-009
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 3/15/2004
Date Began: 1/22/2001

Case Number: H02377-010
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Preliminary Assessment
Date: 3/29/2001
Date Began: 3/12/2001

A2 **ISP ALGINATES** **CA LUST** **1000175734**
NNE **2145 E BELT ST** **CA SLIC** **N/A**
< 1/8 **SAN DIEGO, CA 92113** **CA HIST UST**
0.007 mi. **CA SWEEPS UST**
35 ft. **Site 2 of 17 in cluster A** **CA ENVIROSTOR**

Relative: **Higher**

Actual: **22 ft.**

LUST:
Region: STATE
Global Id: T0607301155
Latitude: 32.6937647
Longitude: -117.1443509
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/16/1989
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT239
LOC Case Number: H02377-001
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Alcohols
Site History: Not reported

ISP ALGINATES (Continued) **1000175734**

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301155
Status:	Completed - Case Closed
Status Date:	05/16/1989
Global Id:	T0607301155
Status:	Open - Case Begin Date
Status Date:	11/20/1985

Regulatory Activities:

Global Id:	T0607301155
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607301155
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607301155
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607301155
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

Region:	STATE
Global Id:	T0607301188
Latitude:	32.6937647
Longitude:	-117.1443509
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	09/28/1988
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2423
LOC Case Number:	H02377-002
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Kerosene
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301188
Status:	Open - Case Begin Date
Status Date:	07/21/1987

ISP ALGINATES (Continued) **1000175734**

Global Id: T0607301188
Status: Completed - Case Closed
Status Date: 09/28/1988

Regulatory Activities:
Global Id: T0607301188
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607301188
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607301188
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T0607301188
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 08/15/1995
Global Id: T0608117074
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H02377-007
Latitude: 32.6939495346896
Longitude: -117.145231962204
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 08/21/1993
Global Id: T0608119278
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H02377-004
Latitude: 32.6940669121747
Longitude: -117.145274877548
Case Type: Cleanup Program Site
Case Worker: Not reported

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ISP ALGINATES (Continued) **1000175734**

Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/26/1992
Global Id:	T0608179993
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H02377-003
Latitude:	32.6939224475558
Longitude:	-117.14529633522
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	03/29/2001
Global Id:	T0608163856
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H02377-010
Latitude:	32.6939540492112
Longitude:	-117.145253419876
Case Type:	Cleanup Program Site
Case Worker:	NS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/15/2004
Global Id:	T0608126802
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H02377-009
Latitude:	32.6939089039858
Longitude:	-117.145248055458
Case Type:	Cleanup Program Site
Case Worker:	Not reported

ISP ALGINATES (Continued) **1000175734**

Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/15/2004
Global Id:	T0608151998
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H02377-006
Latitude:	32.6939450201679
Longitude:	-117.145108580589
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/20/1996
Global Id:	T0608151729
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H02377-008
Latitude:	32.6939495346896
Longitude:	-117.145103216171
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	***Completed - Case Closed***
Status Date:	04/13/2010
Global Id:	T0608138779
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H02377-005
Latitude:	32.6922837
Longitude:	-117.1414597
Case Type:	Cleanup Program Site
Case Worker:	Not reported

ISP ALGINATES (Continued) **1000175734**

Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HIST UST:

Region:	STATE
Facility ID:	00000001334
Facility Type:	Other
Other Type:	KELP PROCESSING AND
Total Tanks:	0010
Contact Name:	R. M. KULAKOW, PLANT MANAGER
Telephone:	6192924900
Owner Name:	KELCO, DIV. MERCK & CO., INC.
Owner Address:	8355 AERO DRIVE
Owner City,St,Zip:	SAN DIEGO, CA 92123

Tank Num:	001
Container Num:	B 1
Year Installed:	1943
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Tank Construction:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	G 1
Year Installed:	1982
Tank Capacity:	00000550
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Tank Construction:	5/16 inches
Leak Detection:	Stock Inventor

Tank Num:	003
Container Num:	IPA 1
Year Installed:	1947
Tank Capacity:	00015000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Tank Construction:	5/16 inches
Leak Detection:	Visual, Stock Inventor

Tank Num:	004
Container Num:	IPA 2
Year Installed:	1947
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Tank Construction:	5/16 inches
Leak Detection:	Visual, Stock Inventor

ISP ALGINATES (Continued) **1000175734**

Tank Num: 005
Container Num: IPA 3
Year Installed: 1947
Tank Capacity: 00003000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 5/16 inches
Leak Detection: None

Tank Num: 006
Container Num: PO 1
Year Installed: 1970
Tank Capacity: 00011000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 5/16 inches
Leak Detection: Stock Inventor

Tank Num: 007
Container Num: PO 2
Year Installed: 1969
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 5/16 inches
Leak Detection: Stock Inventor

Tank Num: 008
Container Num: PO 3
Year Installed: 1960
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 5/16 inches
Leak Detection: Stock Inventor

Tank Num: 009
Container Num: PO 4
Year Installed: 1960
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 5/16 inches
Leak Detection: Stock Inventor

Tank Num: 010
Container Num: PO 5
Year Installed: 1974
Tank Capacity: 00011000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: 5/16 inches
Leak Detection: Stock Inventor

SWEEPS UST:
Status: Active
Comp Number: 2377

ISP ALGINATES (Continued) **1000175734**

Number: 9
Board Of Equalization: 44-021680
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002377-000006
Tank Status: A
Capacity: 11000
Active Date: Not reported
Tank Use: CHEMICAL
STG: P
Content: Not reported
Number Of Tanks: 5

Status: Active
Comp Number: 2377
Number: 9
Board Of Equalization: 44-021680
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002377-000007
Tank Status: A
Capacity: 8000
Active Date: Not reported
Tank Use: CHEMICAL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 2377
Number: 9
Board Of Equalization: 44-021680
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002377-000008
Tank Status: A
Capacity: 8000
Active Date: Not reported
Tank Use: CHEMICAL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 2377
Number: 9
Board Of Equalization: 44-021680
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported

ISP ALGINATES (Continued) **1000175734**

SWRCB Tank Id:	37-000-002377-000009
Tank Status:	A
Capacity:	8000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Active
Comp Number:	2377
Number:	9
Board Of Equalization:	44-021680
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-002377-000010
Tank Status:	A
Capacity:	11000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	2377
Number:	Not reported
Board Of Equalization:	44-021680
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-002377-000001
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	5
Status:	Not reported
Comp Number:	2377
Number:	Not reported
Board Of Equalization:	44-021680
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-002377-000002
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT

ISP ALGINATES (Continued) **1000175734**

Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 2377
Number: Not reported
Board Of Equalization: 44-021680
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002377-000003
Tank Status: Not reported
Capacity: 15000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 2377
Number: Not reported
Board Of Equalization: 44-021680
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002377-000004
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 2377
Number: Not reported
Board Of Equalization: 44-021680
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002377-000005
Tank Status: Not reported
Capacity: 3000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

ENVIROSTOR:
Facility ID: 71002765
Status: Inactive - Needs Evaluation

ISP ALGINATES (Continued) **1000175734**

Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 80
Senate: 40
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 32.69376
Longitude: -117.1443
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981379415
Alias Type: EPA Identification Number
Alias Name: 71002765
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

Facility ID: 37000031
Status: Refer: 1248 Local Agency
Status Date: 01/23/2001
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned

ISP ALGINATES (Continued) **1000175734**

Division Branch:	Cleanup Cypress
Assembly:	79
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	0
Longitude:	0
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	37000031
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	SB 1248 Notification
Completed Date:	01/23/2001
Comments:	SB 1248 San Diego County
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

A3 **ISP ALGINATES INC** **CA HIST CORTESE** **1000984877**
NNE **2145 BELT ST E** **CA LUST** **N/A**
< 1/8 **SAN DIEGO, CA 92113** **CA EMI**
0.007 mi.
35 ft. **Site 3 of 17 in cluster A**

Relative:
Higher

Actual:
22 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT239
Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2423

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT239
Local Case:	H02377-001
Substance:	Alcohol
Qty Leaked:	0

ISP ALGINATES INC (Continued) **1000984877**

Abate Method:	No Action Required - incident is minor, requiring no remedial action
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	Repair Piping
Source:	Piping
Cause:	Corrosion
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	07/21/1987
Date Stopped:	07/21/1987
Confirm Date:	11/20/1985
Submit Workplan:	Not reported
Prelim Assess:	06/17/1986
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	11/18/1986
Enforce Date:	Not reported
Closed Date:	9/28/88
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	>25'
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	Low priority. Priority ranking can change over time.
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

Region:	9
Status:	Case Closed
Case Number:	9UT2423
Local Case:	H02377-002
Substance:	Kerosene
Qty Leaked:	0
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	Other Means
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	07/21/1987
Date Stopped:	07/21/1987
Confirm Date:	07/21/1987
Submit Workplan:	7/21/87
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	07/24/1987

ISP ALGINATES INC (Continued) **1000984877**

Enforce Date: Not reported
Closed Date: 9/28/88
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

EMI:

Year:	1997
County Code:	37
Air Basin:	SD
Facility ID:	118
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1219
Reactive Organic Gases Tons/Yr:	1165
Carbon Monoxide Emissions Tons/Yr:	122
NOX - Oxides of Nitrogen Tons/Yr:	175
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	12
Part. Matter 10 Micrometers & Smllr Tons/Yr:	12

Year:	1998
County Code:	37
Air Basin:	SD
Facility ID:	118
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	981
Reactive Organic Gases Tons/Yr:	926
Carbon Monoxide Emissions Tons/Yr:	99
NOX - Oxides of Nitrogen Tons/Yr:	179
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	12
Part. Matter 10 Micrometers & Smllr Tons/Yr:	12

Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	118
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported

ISP ALGINATES INC (Continued) **1000984877**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	981
Reactive Organic Gases Tons/Yr:	926
Carbon Monoxide Emissions Tons/Yr:	99
NOX - Oxides of Nitrogen Tons/Yr:	179
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	12
Part. Matter 10 Micrometers & Smllr Tons/Yr:	12

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	41
Reactive Organic Gases Tons/Yr:	41
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	118
Air District Name:	SD
SIC Code:	2099
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	N
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	103
Reactive Organic Gases Tons/Yr:	58
Carbon Monoxide Emissions Tons/Yr:	44
NOX - Oxides of Nitrogen Tons/Yr:	94
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	10
Part. Matter 10 Micrometers & Smllr Tons/Yr:	10

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	41
Reactive Organic Gases Tons/Yr:	41
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

ISP ALGINATES INC (Continued) **1000984877**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	118
Air District Name:	SD
SIC Code:	2099
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	72
Reactive Organic Gases Tons/Yr:	59
Carbon Monoxide Emissions Tons/Yr:	15
NOX - Oxides of Nitrogen Tons/Yr:	76
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	10
Part. Matter 10 Micrometers & Smllr Tons/Yr:	10
Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	28
Reactive Organic Gases Tons/Yr:	28
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	118
Air District Name:	SD
SIC Code:	2099
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	N
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	96
Reactive Organic Gases Tons/Yr:	47
Carbon Monoxide Emissions Tons/Yr:	14
NOX - Oxides of Nitrogen Tons/Yr:	72
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	11
Part. Matter 10 Micrometers & Smllr Tons/Yr:	11
Year:	2003
County Code:	37
Air Basin:	SD

ISP ALGINATES INC (Continued) **1000984877**

Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	N
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	34
Reactive Organic Gases Tons/Yr:	34
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	118
Air District Name:	SD
SIC Code:	2099
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	95.6526
Reactive Organic Gases Tons/Yr:	47.407455
Carbon Monoxide Emissions Tons/Yr:	14.3596697
NOX - Oxides of Nitrogen Tons/Yr:	71.9631818
SOX - Oxides of Sulphur Tons/Yr:	0.81207
Particulate Matter Tons/Yr:	10.74165
Part. Matter 10 Micrometers & Smllr Tons/Yr:	10.74165

Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	33.5049992
Reactive Organic Gases Tons/Yr:	33.5049992
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

ISP ALGINATES INC (Continued) **1000984877**

Total Organic Hydrocarbon Gases Tons/Yr:	43.54
Reactive Organic Gases Tons/Yr:	43.54
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47.24
Reactive Organic Gases Tons/Yr:	47.24
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.13
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1.13

Year:	2007
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47.24
Reactive Organic Gases Tons/Yr:	47.24
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.13
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1.13

Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47.24
Reactive Organic Gases Tons/Yr:	47.24
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.13

ISP ALGINATES INC (Continued) **1000984877**

Part. Matter 10 Micrometers & Smllr Tons/Yr:	1.13
Year:	2009
County Code:	37
Air Basin:	SD
Facility ID:	7006
Air District Name:	SD
SIC Code:	2833
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47.240000000000002
Reactive Organic Gases Tons/Yr:	47.240000000000002
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1.1299999999999999
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1.1299999999999999

A4 **KELCO DIVISION OF MERCK & CO., INC.** **CERC-NFRAP** **1003879832**
NNE **2145 EAST BELT** **CAD983658436**
< 1/8 **SAN DIEGO, CA 92113**
0.007 mi.
35 ft. **Site 4 of 17 in cluster A**

Relative:
Higher

Actual:
22 ft.

CERC-NFRAP:

Site ID:	0904769
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13285900.00000
Person ID:	13003854.00000
Contact Sequence ID:	13291495.00000
Person ID:	13003858.00000
Contact Sequence ID:	13297353.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Site Alias Name(s):

Alias Name:	MERCK AND CO.
Alias Address:	Not reported
	CA

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	02/08/93
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	08/31/93
Priority Level:	Not reported

KELCO DIVISION OF MERCK & CO., INC. (Continued) **1003879832**

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 08/31/93
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

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A5 **CONTINENTAL MARITIME OF S D** **CA LUST S103978937**
North **1995 BAYFRONT ST** **CA SWEEPS UST N/A**
< 1/8 **SAN DIEGO, CA 92113** **CA San Diego Co. HMMD**
0.028 mi. **CA SAN DIEGO CO. SAM**
149 ft. **Site 5 of 17 in cluster A**

Relative:
Higher

Actual:
23 ft.

LUST:

Region:	STATE
Global Id:	T0607300219
Latitude:	32.6948163186332
Longitude:	-117.14772105217
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/25/1989
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT138
LOC Case Number:	H00120-001
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607300219
Status:	Completed - Case Closed
Status Date:	05/25/1989
Global Id:	T0607300219
Status:	Open - Case Begin Date
Status Date:	12/12/1986

Regulatory Activities:

Global Id:	T0607300219
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607300219
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607300219
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607300219
Action Type:	Other

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Date:	01/01/1950
Action:	Leak Stopped
Region:	STATE
Global Id:	T0607301225
Latitude:	32.6947395724778
Longitude:	-117.147731781006
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/24/1997
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2467
LOC Case Number:	H00120-003
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301225
Status:	Completed - Case Closed
Status Date:	02/24/1997
Global Id:	T0607301225
Status:	Open - Case Begin Date
Status Date:	07/10/1992

Regulatory Activities:

Global Id:	T0607301225
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607301225
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607301225
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Region:	STATE
Global Id:	T0607301763
Latitude:	32.6947937462414
Longitude:	-117.147731781006
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/15/2005
Lead Agency:	SAN DIEGO COUNTY LOP

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2996
LOC Case Number:	H00120-002
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301763
Status:	Open - Case Begin Date
Status Date:	08/30/1990

Global Id:	T0607301763
Status:	Completed - Case Closed
Status Date:	04/15/2005

Regulatory Activities:

Global Id:	T0607301763
Action Type:	ENFORCEMENT
Date:	08/31/1990
Action:	Notice of Responsibility

Global Id:	T0607301763
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

Global Id:	T0607301763
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0607301763
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began

Global Id:	T0607301763
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

SWEEPS UST:

Status:	Active
Comp Number:	120
Number:	9
Board Of Equalization:	44-021534
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 120
Number: Not reported
Board Of Equalization: 44-021534
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-000120-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: 6

Status: Not reported
Comp Number: 120
Number: Not reported
Board Of Equalization: 44-021534
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-000120-000002
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 120
Number: Not reported
Board Of Equalization: 44-021534
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-000120-000003
Tank Status: Not reported
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Number Of Tanks: Not reported

Status: Not reported
Comp Number: 120
Number: Not reported
Board Of Equalization: 44-021534
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-000120-000004
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 120
Number: Not reported
Board Of Equalization: 44-021534
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-000120-000005
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 120
Number: Not reported
Board Of Equalization: 44-021534
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-000120-000006
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

SAN DIEGO CO. HMMD:
Facility Id: 100120
Business Type: 6HK71
EPA Id Number: CAD981418395

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

APN:	538-660-22-00
Last HMMD Inspection:	10/21/2009
Permit Status:	INAC
Permit Expiration:	04/30/2012
Facility Owner:	CONTINENTAL MARITIME OF S, INC
Facility Address:	1995 BAYFRONT ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2122
UST Owner:	CONTINENTAL MARITIME OF SD INC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 100120 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	CD-1
Capacity Gallons:	10000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	CLOSED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100120 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	CG-1
Capacity Gallons:	500
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100120 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	FD-1
Capacity Gallons:	2000

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

UST Contents: LEADED
Other Content Info: LEADED
Reg Status: REMOVED
Remove Close Date: 1986-11-08 00:00:00
Year Installed: 1979-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 100120 T004
Last Update: 2012-11-02 14:17:38
Permit Number: 100120
Tank Type: UNKNOWN
Additional Id: FD-2
Capacity Gallons: 6000
UST Contents: LEADED
Other Content Info: LEADED
Reg Status: REMOVED
Remove Close Date: 1986-11-08 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 100120 T005
Last Update: 2012-11-02 14:17:38
Permit Number: 100120
Tank Type: UNKNOWN
Additional Id: AT1978
Capacity Gallons: 10000
UST Contents: Not reported
Other Content Info: MOTOR OIL
Reg Status: REMOVED
Remove Close Date: 1990-07-19 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 100120 T006
Last Update: 2012-11-02 14:17:38
Permit Number: 100120
Tank Type: UNKNOWN
Additional Id: AT2018
Capacity Gallons: 12000
UST Contents: Not reported
Other Content Info: MOTOR OIL
Reg Status: REMOVED
Remove Close Date: 1990-07-19 00:00:00
Year Installed: Not reported
Pipe Type: Not reported

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 100120 T007
Last Update: 2012-11-02 14:17:38
Permit Number: 100120
Tank Type: SINGLE WALL
Additional Id: 007
Capacity Gallons: 12000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1994-06-20 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 100120 T008
Last Update: 2012-11-02 14:17:38
Permit Number: 100120
Tank Type: SINGLE WALL
Additional Id: 008
Capacity Gallons: 2200
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1994-03-05 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Violations Inactive Permits:
Facility Id: 100120
Update Date: 11/02/2012
Inspection Date: 11/13/2004
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: Inactive Permit

Facility Id: 100120
Update Date: 11/02/2012
Inspection Date: 04/01/2008
Violation Code: 6HV1014
Violation: HMBP INCOMPLETE/NOT AMENDED
Violation Citation: HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Activity:	Inactive Permit
Facility Id:	100120
Update Date:	11/02/2012
Inspection Date:	10/21/2005
Violation Code:	6HV1602
Violation:	P.E. ASSESSMENT REPORT NOT COMPLETE
Violation Citation:	Failed to provide adequate P.E. Assessment report for a HW tank system. 66265.191(g) or 66265.192(k)
Activity:	Inactive Permit
Facility Id:	100120
Update Date:	11/02/2012
Inspection Date:	04/01/2008
Violation Code:	6HV1601
Violation:	HAZWASTE TANKS W/O P.E. ASSESSMENT
Violation Citation:	Failed to obtain a P.E. assessment for hazardous waste tank system. 66265.191(a) or 66265.192(a)
Activity:	Inactive Permit
Facility Id:	100120
Business Type:	6HK71
EPA Id Number:	CAD981418395
APN:	538-660-22-00
Last HMMD Inspection:	10/21/2009
Permit Status:	INAC
Permit Expiration:	04/30/2012
Facility Owner:	CONTINENTAL MARITIME OF S, INC
Facility Address:	1995 BAYFRONT ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2122
UST Owner:	CONTINENTAL MARITIME OF SD INC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	N
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 100120 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	CD-1
Capacity Gallons:	10000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	CLOSED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

UST Name:	UNDERGROUND TANK 100120 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	CG-1
Capacity Gallons:	*500*
UST Contents:	PREMIUM UNLEADED
Other Content Info:	PREMIUM UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100120 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	FD-1
Capacity Gallons:	2000
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1979-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100120 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	FD-2
Capacity Gallons:	6000
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100120 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	AT1978
Capacity Gallons:	*10000*

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

UST Contents:	Not reported
Other Content Info:	MOTOR OIL
Reg Status:	REMOVED
Remove Close Date:	1990-07-19 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100120 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	UNKNOWN
Additional Id:	AT2018
Capacity Gallons:	12000
UST Contents:	Not reported
Other Content Info:	MOTOR OIL
Reg Status:	REMOVED
Remove Close Date:	1990-07-19 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100120 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	SINGLE WALL
Additional Id:	007
Capacity Gallons:	12000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1994-06-20 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100120 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	100120
Tank Type:	SINGLE WALL
Additional Id:	008
Capacity Gallons:	2200
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1994-03-05 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Violations Inactive Permits:
Facility Id: 100120
Update Date: 11/02/2012
Inspection Date: 11/13/2004
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: Inactive Permit

Facility Id: 100120
Update Date: 11/02/2012
Inspection Date: 04/01/2008
Violation Code: 6HV1014
Violation: HMBP INCOMPLETE/NOT AMENDED
Violation Citation: HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity: Inactive Permit

Facility Id: 100120
Update Date: 11/02/2012
Inspection Date: 10/21/2005
Violation Code: 6HV1602
Violation: P.E. ASSESSMENT REPORT NOT COMPLETE
Violation Citation: Failed to provide adequate P.E. Assessment report for a HW tank system. 66265.191(g) or 66265.192(k)
Activity: Inactive Permit

Facility Id: 100120
Update Date: 11/02/2012
Inspection Date: 04/01/2008
Violation Code: 6HV1601
Violation: HAZWASTE TANKS W/O P.E. ASSESSMENT
Violation Citation: Failed to obtain a P.E. assessment for hazardous waste tank system. 66265.191(a) or 66265.192(a)
Activity: Inactive Permit

Facility Id: 208644
Business Type: 6HK57
EPA Id Number: CA4170090613
APN: 538-660-22-00
Last HMMD Inspection: 03/20/2008
Permit Status: OPEN
Permit Expiration: 07/31/2013
Facility Owner: USN - SWRMC
Facility Address: 33755 BRINSER ST
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92136-5299
UST Owner: Not reported

CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Active Permits:
Facility Id: 208644
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 208644
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 208644
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 461 PAINT SLUDGE
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 208644
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 281 ADHESIVES
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 208644
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 208644
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 741 LIQ W HALOG ORG >OR= 1000MG/L
Other Information: Not reported

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CONTINENTAL MARITIME OF S D (Continued) **S103978937**

Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 208644
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 791 LIQUIDS WITH PH <OR= 2
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

SAN DIEGO CO. SAM:
Case Number: H00120-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 5/25/1989
Date Began: 12/12/1986

Case Number: H00120-002
Agency: DEH Site Assessment & Mitigation
Funding: **POP**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Closed Case
Date: 4/15/2005
Date Began: 8/30/1990

Case Number: H00120-003
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Closed Case
Date: 2/24/1997
Date Began: 7/10/1992

A6
North
< 1/8
0.028 mi.
149 ft.

Relative:
Higher

Actual:
23 ft.

CONTINENTAL MARITIME OF SAN DIEGO **S104746413**
1995 BAY FRONT STREET **N/A**
SAN DIEGO, CA 92113

Site 6 of 17 in cluster A

CA NPDES
CA HIST CORTESE
CA SLIC
CA CHMIRS
CA ENF
CA San Diego Co. HMMD
CA ENVIROSTOR

NPDES:
Npdes Number: CA0109142
Facility Status: Active
Agency Id: 9293
Region: 9
Regulatory Measure Id: 352044
Order No: R9-2008-0049
Regulatory Measure Type: NPDES Permits
Place Id: 215572
WDID: 9 000000400

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Program Type:	NPDINDSML
Adoption Date Of Regulatory Measure:	08/13/2008
Effective Date Of Regulatory Measure:	08/13/2008
Expiration Date Of Regulatory Measure:	08/13/2013
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Continental Maritime of San Diego, Inc.
Discharge Address:	1995 Bayfront St
Discharge City:	San Diego
Discharge State:	CA
Discharge Zip:	92113

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2467

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2996

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT138

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	07/16/2013
Global Id:	T0608190985
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H02857-001
Latitude:	32.69446
Longitude:	-117.144739
Case Type:	Cleanup Program Site
Case Worker:	SW
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

CHMIRS:

OES Incident Number:	98-1243
OES notification:	03/12/1998
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1998
Agency:	USCG-MSO San Diego
Incident Date:	3/12/199812:00:00 AM
Admin Agency:	San Diego County Health Services Dept.
Amount:	Not reported
Contained:	No
Site Type:	Road
E Date:	Not reported
Substance:	Hydraulic Fluid
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	10-20
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Number of Injuries: 0
Number of Fatalities: 0
Description: CalTrans vehicle sprewed fluid from overpass onto approximatly 70 vehicles parked below belonging to employees of Continental Maritime. CalTrans appraently not doing clean-up to vehicles; Russel McCarthy from Continental Maritime (619)234-8851 X--531 called USCG to report the following after calling both Caltrans & RWQCB-9 and getting either no response or incorrect response. Someone RWQ??? told him to take the vehicles to a carwash.

ENF:

Region:	9
Facility Id:	215572
Agency Name:	Continental Maritime of San Diego, Inc.
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.42999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Washwater waste
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDSML
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000400
Reg Measure Id:	213845
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	97-037
Npdes# CA#:	CA0109142
Major-Minor:	Minor
Npdes Type:	FED
Reclamation:	N - No
Dredge Fill Fee:	Not reported

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

301H:	Not reported
Application Fee Amt Received:	1300
Status:	Historical
Status Date:	01/03/2014
Effective Date:	05/04/1987
Expiration/Review Date:	11/12/2002
Termination Date:	11/12/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	250052
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	10/22/2003
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	10/22/2003
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000400
Description:	Not reported
Program:	NPDINDSML
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	215572
Agency Name:	Continental Maritime of San Diego, Inc.
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.42999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Washwater waste
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDSML
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000400
Reg Measure Id:	213845
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	97-037
Npdes# CA#:	CA0109142
Major-Minor:	Minor
Npdes Type:	FED
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1300
Status:	Historical
Status Date:	01/03/2014
Effective Date:	05/04/1987
Expiration/Review Date:	11/12/2002
Termination Date:	11/12/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	249883
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	10/16/2003
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	10/16/2003
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Status:	Historical
Title:	Enforcement - 9 000000400
Description:	On July 3, 2003, the Pier 4, saltwater fire protection system water failed to comly with the 70% survival 10% of the time specification.
Program:	NPDINDSML
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	215572
Agency Name:	Continental Maritime of San Diego, Inc.
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.42999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Washwater waste
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDSML
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000400
Reg Measure Id:	213845
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	97-037

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Npdes# CA#:	CA0109142
Major-Minor:	Minor
Npdes Type:	FED
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1300
Status:	Historical
Status Date:	01/03/2014
Effective Date:	05/04/1987
Expiration/Review Date:	11/12/2002
Termination Date:	11/12/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	243112
Region:	9
Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	07/24/2003
Adoption/Issuance Date:	Not reported
Achieve Date:	2001-09-14
Termination Date:	07/24/2003
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	SEL Paint Spill to San Diego Bay - Continental Maritime Shipyard
Description:	One-quart can of paint spilled to the Bay.
Program:	NPDINDSML
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	215572
Agency Name:	Continental Maritime of San Diego, Inc.
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.42999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Washwater waste
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDSML
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000400
Reg Measure Id:	213845
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	97-037
Npdes# CA#:	CA0109142
Major-Minor:	Minor
Npdes Type:	FED
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1300
Status:	Historical
Status Date:	01/03/2014
Effective Date:	05/04/1987
Expiration/Review Date:	11/12/2002
Termination Date:	11/12/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	237835
Region:	9
Order / Resolution Number:	R9-2001-0114
Enforcement Action Type:	Admin Civil Liability
Effective Date:	07/18/2001

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Adoption/Issuance Date:	Not reported
Achieve Date:	2001-07-06
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000400
Description:	2001-114 (order for board to accept payment of ACL)
Program:	NPDINDSML
Latest Milestone Completion Date:	2003-06-19
# Of Programs1:	1
Total Assessment Amount:	41120
Initial Assessed Amount:	0
Liability $ Amount:	41120
Project $ Amount:	0
Liability $ Paid:	41120
Project $ Completed:	0
Total $ Paid/Completed Amount:	41120

Region:	9
Facility Id:	215572
Agency Name:	Continental Maritime of San Diego, Inc.
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.42999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Washwater waste
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDSML
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000400
Reg Measure Id:	213845

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Reg Measure Type:	NPDES Permits
Region:	9
Order #:	97-037
Npdes# CA#:	CA0109142
Major-Minor:	Minor
Npdes Type:	FED
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1300
Status:	Historical
Status Date:	01/03/2014
Effective Date:	05/04/1987
Expiration/Review Date:	11/12/2002
Termination Date:	11/12/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	237834
Region:	9
Order / Resolution Number:	R9-2001-0113
Enforcement Action Type:	Admin Civil Liability
Effective Date:	06/15/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Withdrawn
Title:	Enforcement - 9 000000400
Description:	complaint 2001-113 issued for 8 atox violations triggered ACL for $41120
Program:	NPDINDSML
Latest Milestone Completion Date:	2003-07-23
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	215572
Agency Name:	Continental Maritime of San Diego, Inc.
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

# Of Agencies:	1
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.42999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Washwater waste
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDSML
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000400
Reg Measure Id:	213845
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	97-037
Npdes# CA#:	CA0109142
Major-Minor:	Minor
Npdes Type:	FED
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1300
Status:	Historical
Status Date:	01/03/2014
Effective Date:	05/04/1987
Expiration/Review Date:	11/12/2002
Termination Date:	11/12/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	234704

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	10/31/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2001-09-14
Termination Date:	10/31/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000400
Description:	This is the enforcement SEL for the stormwater toxicity for 1999-2000 wet season.<CR>There were 7 samples taken on 2/12/2000 and 1 sample takne on 4/17/2000.
Program:	NPDINDSML
Latest Milestone Completion Date:	2001-09-14
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	215572
Agency Name:	Continental Maritime of San Diego, Inc.
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0.42999999
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Washwater waste
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Program:	NPDINDSML
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000400
Reg Measure Id:	213845
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	97-037
Npdes# CA#:	CA0109142
Major-Minor:	Minor
Npdes Type:	FED
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	1300
Status:	Historical
Status Date:	01/03/2014
Effective Date:	05/04/1987
Expiration/Review Date:	11/12/2002
Termination Date:	11/12/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	233218
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Oral Communication
Effective Date:	06/30/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	1999-06-30
Termination Date:	06/30/1999
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000400
Description:	link to violaiton record # 630
Program:	NPDINDSML
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	215572

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Agency Name:	Continental Maritime of San Diego, Inc.
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	B
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Washwater waste
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDSML
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000400
Reg Measure Id:	352044
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	R9-2008-0049
Npdes# CA#:	CA0109142
Major-Minor:	Minor
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	1300
Status:	Active
Status Date:	06/04/2013
Effective Date:	08/13/2008
Expiration/Review Date:	08/13/2013
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	396291
Region:	9
Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	Not reported
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Draft
Title:	SEL for Continental Maritime of San Diego, Inc.
Description:	Covering July 2012 ? March 2014 quarterly monitoring reports, July 2012 ? December 2013 semi annual reports, and 2012 ? 2013 annual reports.
Program:	NPDINDSML
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	215572
Agency Name:	Not reported
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	32.694602000000
Place Longitude:	-117.1449900000
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Pretreatment:	Not reported
Facility Waste Type:	Not reported
Facility Waste Type 2:	Not reported
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	Not reported
Program Category1:	Not reported
Program Category2:	NPDESWW
# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	385614
Region:	9
Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	Not reported
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	06/25/2012 SEL for Continental Maritime IND, INC
Description:	a full service ship repair facility.
Program:	NPDESWW
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Project $ Completed: 0
Total $ Paid/Completed Amount: 0

SAN DIEGO CO. HMMD:
Facility Id: 106677
Business Type: 6HK70
EPA Id Number: CAL000196534
APN: 538-660-43-00
Last HMMD Inspection: 12/17/1999
Permit Status: INAC
Permit Expiration: 03/31/2002
Facility Owner: OWENS O'BRIAN
Facility Address: 3635 RUFFIN RD
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92123-
UST Owner: Not reported
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

ENVIROSTOR:
Facility ID: 71002826
Status: Inactive - Needs Evaluation
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Cypress
Assembly: 80
Senate: 40
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 32.69567
Longitude: -117.1467
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981418395
Alias Type: EPA Identification Number
Alias Name: 110000781501
Alias Type: EPA (FRS #)
Alias Name: 71002826

CONTINENTAL MARITIME OF SAN DIEGO (Continued) **S104746413**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

A7 **SWRMC/SUPSHIP USN, AT CMSD** **RCRA-LQG** **1000820618**
North **1995 BAY FRONT STREET** **CA4170090613**
< 1/8 **SAN DIEGO, CA 92113**
0.028 mi.
149 ft. **Site 7 of 17 in cluster A**

Relative:
Higher

Actual:
23 ft.

RCRA-LQG:
Date form received by agency: 04/17/2012
Facility name: SWRMC/SUPSHIP USN, AT CMSD
Facility address: 1995 BAY FRONT STREET
SAN DIEGO, CA 92113
EPA ID: CA4170090613
Mailing address: BRINSER STREET/C106/BLD 91
SAN DIEGO, CA 92136
Contact: ANDRES G QUINONES
Contact address: BRINSER STREET/C106/BLD 91
SAN DIEGO, CA 92136
Contact country: Not reported
Contact telephone: (619) 556-1055
Contact email: ANDRES.QUINONES@NAVY.MIL
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water; of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CONTINENTAL MARITIME SAN DIEGO
Owner/operator address: BRINSER STREET/C106/BLD 91
SAN DIEGO, CA 92136

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SWRMC/SUPSHIP USN, AT CMSD (Continued) **1000820618**

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1975
Owner/Op end date: Not reported

Owner/operator name: UNIFIED PORT OF SAN DIEGO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1958
Owner/Op end date: Not reported

Owner/operator name: CONTINENTAL MARITIME OF SAN DIEGO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/01/1985
Owner/Op end date: Not reported

Owner/operator name: PORT OF SAN DIEGO
Owner/operator address: PACIFIC HIGHWAY
SAN DIEGO, CA 92101
Owner/operator country: Not reported
Owner/operator telephone: (619) 686-6200
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1930
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/17/2010

SWRMC/SUPSHIP USN, AT CMSD (Continued) **1000820618**

Site name: SWRMC/SUPSHIP USN, AT CMSD
Classification: Large Quantity Generator

Date form received by agency: 02/20/2008
Site name: SOUTHWEST REGIONAL MAINTENANCE CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/15/2006
Site name: SOUTHWEST REGIONAL MAINTENANCE CENTER
Classification: Small Quantity Generator

Date form received by agency: 02/15/2006
Site name: SOUTHWEST REGIONAL MAINTENANCE CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/16/2005
Site name: SOUTH WEST REGIONAL MAINTENANCE CENTER
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: CONTINENTAL MARITIME OF SAN DIEGO
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: CONTINENTAL MARITIME OF SAN DIEGO
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: USNAVY SUPERVISOR OF SHIPBUILDING
Classification: Large Quantity Generator

Date form received by agency: 02/26/1996
Site name: CONTINENTAL MARITIME SAN DIEGO
Classification: Large Quantity Generator

Date form received by agency: 03/18/1994
Site name: CONTINENTAL MARITIME OF SAN DIEGO, INC.
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 181
Waste name: 181

Waste code: 214
Waste name: 214

Waste code: 223
Waste name: 223

Waste code: 261
Waste name: 261

Waste code: 281
Waste name: 281

Waste code: 343
Waste name: 343

SWRMC/SUPSHIP USN, AT CMSD (Continued) **1000820618**

Waste code: 352
Waste name: 352

Waste code: 461
Waste name: 461

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 9036

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 12107

Waste code: D006
Waste name: CADMIUM

SWRMC/SUPSHIP USN, AT CMSD (Continued) **1000820618**

Amount (Lbs): 3131

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 12159

Waste code: D008
Waste name: LEAD
Amount (Lbs): 12159

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 8457

Violation Status: No violations found

A8 **BUMBLE BEE SEAFOODS** **RCRA-SQG 1000163719**
North **1995 BAYFRONT** **FINDS CAD020511010**
< 1/8 **SAN DIEGO, CA 92113** **CA HIST UST**
0.028 mi.
149 ft. **Site 8 of 17 in cluster A**

Relative:
Higher

Actual:
23 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: BUMBLE BEE SEAFOODS
Facility address: 1995 BAYFRONT
SAN DIEGO, CA 92113
EPA ID: CAD020511010
Mailing address: PO BOX X-1017
SAN DIEGO, CA 92112
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BUMBLE BEE SEAFOODS
Owner/operator address: NOT REQUIRED

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BUMBLE BEE SEAFOODS (Continued) **1000163719**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/16/1983
Site name: BUMBLE BEE SEAFOODS
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110009529484

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110000781501

Environmental Interest/Information System
NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

BUMBLE BEE SEAFOODS (Continued) **1000163719**

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

HAZARDOUS WASTE BIENNIAL REPORTER

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

HIST UST:

Region:	STATE
Facility ID:	00000011727
Facility Type:	Other
Other Type:	FOOD PROCESSING
Total Tanks:	0004
Contact Name:	GENE PENN
Telephone:	6192350160
Owner Name:	BUMBLE BEE SEAFOODS
Owner Address:	1995 BAYFRONT
Owner City,St,Zip:	SAN DIEGO, CA 92113
Tank Num:	001
Container Num:	CD-1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	CG-1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Tank Construction:	Not reported

BUMBLE BEE SEAFOODS (Continued) **1000163719**

Leak Detection: Visual, Stock Inventor

Tank Num: 003
Container Num: FD-1
Year Installed: 1979
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor

Tank Num: 004
Container Num: FD-2
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Visual, Stock Inventor

A9 **SOUTHWEST MARINE, INC.(CMSD-PROVISIONAL)** **RCRA-LQG** **1007200573**
North **1995 BAY FRONT STREET** **CAP000101121**
< 1/8 **SAN DIEGO, CA 92113**
0.028 mi.
149 ft. **Site 9 of 17 in cluster A**

Relative:
Higher

Actual:
23 ft.

RCRA-LQG:
Date form received by agency: 03/29/2002
Facility name: SOUTHWEST MARINE, INC.(CMSD-PROVISIONAL)
Facility address: 1995 BAY FRONT STREET
SAN DIEGO, CA 92113
EPA ID: CAP000101121
Mailing address: SOUTHWEST MARINE, INC.
FOOT OF SAMPSON ST.
SAN DIEGO, CA 92113
Contact: KENNETH E PETERSON
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (619) 238-1000
Telephone ext.: 2059
Contact email: Not reported
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

SOUTHWEST MARINE, INC.(CMSD-PROVISIONAL) (Continued) **1007200573**

Owner/Operator Summary:

Owner/operator name:	NORTHROP-GRUMMAN, INC.
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1980
Owner/Op end date:	Not reported
Owner/operator name:	CONTINENTAL MARITIME, INC.
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1980
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Universal Waste Summary:

Waste type:	Batteries
Accumulated waste on-site:	Unknown
Generated waste on-site:	Yes

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Violation Status:	No violations found

A10
North
< 1/8
0.028 mi.
149 ft.

SOUTHWEST MARINE — RCRA-LQG — 1008194718
1995 BAYFRONT STREET — CAP000147272
SAN DIEGO, CA 92113

Site 10 of 17 in cluster A

Relative:
Higher

Actual:
23 ft.

RCRA-LQG:

Date form received by agency:	02/16/2004
Facility name:	SOUTHWEST MARINE
Facility address:	1995 BAYFRONT STREET SAN DIEGO, CA 92113
EPA ID:	CAP000147272
Mailing address:	P.O. BOX 85278 MS-22A SAN DIEGO, CA 921865278
Contact:	MICHAEL T CHEE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(619) 544-7778
Contact email:	MCHEE@NASSCO.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	SAN DIEGO PORT DISTRICT
Owner/operator address:	P.O BOX 120488 SAN DIEGO, CA 92112
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	02/14/1963
Owner/Op end date:	Not reported

Owner/operator name:	SOUTHWEST MARINE
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	02/14/1976
Owner/Op end date:	Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No

SOUTHWEST MARINE (Continued) **1008194718**

Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	*No*
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Violation Status: No violations found

A11 **CONTINENTAL OF SAN DIEGO, INC.** **CERC-NFRAP 1000412848**
North **1995 BAY FRONT** **RCRA-LQG CAD981418395**
< 1/8 **SAN DIEGO, CA 92113** **CA LUST**
0.028 mi. **NY MANIFEST**
149 ft. **Site 11 of 17 in cluster A** **CA CHMIRS**
CA SAN DIEGO CO. SAM

Relative:
Higher

Actual:
23 ft.

CERC-NFRAP:

Site ID:	0904767
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID: 13286902.00000
Person ID: 13003854.00000

Contact Sequence ID: 13292497.00000
Person ID: 13003858.00000

Contact Sequence ID: 13298355.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Action: DISCOVERY
Date Started: / /
Date Completed: 02/08/93
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/10/94
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 01/10/94
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-LQG:
Date form received by agency: 03/16/2012
Facility name: CONTINENTAL MARITIME SAN DIEGO INC.
Facility address: 1995 BAYFRONT STREET
SAN DIEGO, CA 92113
EPA ID: CAD981418395
Mailing address: BAYFRONT STREET
SAN DIEGO, CA 92113
Contact: RUSSEL MCCARTHY
Contact address: BAYFRONT STREET
SAN DIEGO, CA 92113
Contact country: Not reported
Contact telephone: (619) 234-8851
Telephone ext.: 531
Contact email: RMCCARTHY@CONTINENTALMARITIME.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CONTINENTAL MARITIME SAN DIEGO
Owner/operator address: PACIFIC HWY
SAN DIEGO, CA 92101
Owner/operator country: Not reported
Owner/operator telephone: (619) 686-6200
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/01/1986
Owner/Op end date: Not reported

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Owner/operator name: PORT OF SAN DIEGO
Owner/operator address: PACIFIC HWY
SAN DIEGO, CA 92101
Owner/operator country: Not reported
Owner/operator telephone: (619) 686-6200
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 12/18/1962
Owner/Op end date: Not reported

Owner/operator name: CONTINENTAL MARITIME OF SAN DIEGO
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 03/11/2011
Owner/Op end date: Not reported

Owner/operator name: HUNTINGTON INGALLS INCORPORATED
Owner/operator address: 4101 WASHINGTON AVE
NEWPORT NEWS, VA 23607
Owner/operator country: US
Owner/operator telephone: 757-380-4645
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 03/31/2011
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/13/2011
Site name: CONTINENTAL MARITIME OF SAN DIEGO
Classification: Large Quantity Generator

Date form received by agency: 06/15/2010
Site name: CONTINENTAL MARITIME OF SAN DIEGO (YARD)
Classification: Large Quantity Generator

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Date form received by agency: 02/03/2008
Site name: CONTINENTAL MARITIME OF SAN DIEGO
Classification: Large Quantity Generator

Date form received by agency: 02/25/2006
Site name: CONTINENTAL MARITIME OF SAN DIEGO, INC.
Classification: Large Quantity Generator

Date form received by agency: 02/20/2004
Site name: CONTINENTAL MARITIME SAN DIEGO (SITE)
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002
Site name: CONTINENTAL MARITIME INC.
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: CONTINENTAL MARITIME INC.
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: CONTINENTAL MARITIME INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: CONTINENTAL MARITIME OF S D INC
Classification: Large Quantity Generator

Date form received by agency: 01/29/1996
Site name: CONTINENTAL MARITIME OF SAN DIEGO, INC.
Classification: Large Quantity Generator

Date form received by agency: 06/05/1995
Site name: CONTINENTAL MARITIME OF S D INC
Classification: Large Quantity Generator

Date form received by agency: 03/31/1994
Site name: CONTINENTAL MARITIME OF SAN DIEGO, INC.
Classification: Large Quantity Generator

Date form received by agency: 04/30/1992
Site name: CONTINENTAL MARITIME OF SAN DIEGO
Classification: Large Quantity Generator

Date form received by agency: 04/11/1990
Site name: CONTINENTAL MARITIME OF S. D.
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 214
Waste name: 214

Waste code: 223
Waste name: 223

Waste code: 352
Waste name: 352

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: 151
Waste name: 151

Waste code: 181
Waste name: 181

Waste code: 212
Waste name: 212

Waste code: 214
Waste name: 214

Waste code: 221
Waste name: 221

Waste code: 223
Waste name: 223

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Waste code: 331
Waste name: 331

Waste code: 343
Waste name: 343

Waste code: 352
Waste name: 352

Waste code: 461
Waste name: 461

Waste code: 513
Waste name: 513

Waste code: 791
Waste name: 791

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 4726

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 8776

Waste code: D008
Waste name: LEAD
Amount (Lbs): 8776

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 4726

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 4050

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 4726

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Date violation determined: 04/01/2008
Date achieved compliance: 05/30/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/01/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 10/21/2005
Date achieved compliance: 06/26/2006
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 10/21/2005
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 08/19/1994
Date achieved compliance: 08/19/1999
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 01/14/1993
Date achieved compliance: 08/19/1994
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 04/01/2008
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Area of violation: Generators - General
Date achieved compliance: 05/30/2008
Evaluation lead agency: State

Evaluation date: 07/23/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/21/2005
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/26/2006
Evaluation lead agency: Local

Evaluation date: 08/19/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/19/1999
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 01/14/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/19/1994
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 05/21/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/26/2006
Evaluation lead agency: State Contractor/Grantee

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT138
Local Case: H00120-001
Substance: Diesel
Qty Leaked: 6000
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Corrosion
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 12/12/1986
Date Stopped: 12/12/1986
Confirm Date: 12/12/1986
Submit Workplan: Not reported
Prelim Assess: 01/09/1987
Desc Pollution: Not reported
Remed Plan: 08/27/1987
Remed Action: Not reported

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Began Monitor: Not reported
Release Date: 12/12/1986
Enforce Date: Not reported
Closed Date: 5/25/89
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.21
GW Depth: ~10'
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Case Closed
Case Number: 9UT2467
Local Case: H00120-003
Substance: Diesel
Qty Leaked: 0
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency: San Diego
How Found: Subsurface Monitoring
How Stopped: Not reported
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Aquifer affected
Date Found: 07/10/1992
Date Stopped: / /
Confirm Date: 07/10/1992
Submit Workplan: 7/10/92
Prelim Assess: 07/10/1992
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 05/06/1993
Enforce Date: Not reported
Closed Date: 2/24/97
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 9.03
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: No
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Case Number: 9UT2996
Local Case: H00120-002
Substance: Diesel
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Other Means
How Stopped: Other Means
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 08/30/1990
Date Stopped: 08/30/1990
Confirm Date: 08/30/1990
Submit Workplan: Not reported
Prelim Assess: 11/22/1991
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 08/30/1990
Enforce Date: 8/31/90
Closed Date: Not reported
Enforce Type: SEL
Pilot Program: LOP
Basin Number: 908.21
GW Depth: 5'
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 1B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

NY MANIFEST:
EPA ID: CAD981418395
Country: USA

Mailing Info:
Name: CONTINENTAL MARITIME OF SAN DIEGO INC
Contact: CONTINENTAL MARITIME OF SAN DIEGO INC
Address: 1995 GAY FRONT
City/State/Zip: SAN DIEGO, CA 92113
Country: USA
Phone: 819-234-8851

Document ID: NYB5660415
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 409234
Trans2 State ID: Not reported
Generator Ship Date: 930430
Trans1 Recv Date: 930430
Trans2 Recv Date: Not reported
TSD Site Recv Date: 930526

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Part A Recv Date:	930517
Part B Recv Date:	930609
Generator EPA ID:	CAD981418395
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NYD048148175
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00010
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	93

CHMIRS:

OES Incident Number:	006449
OES notification:	Not reported
OES Date:	1/26/1995
OES Time:	12:58:25 PM
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	NO
Waterway:	san diego bay outfall of storm drain
Spill Site:	Not reported
Cleanup By:	contennental
Containment:	Not reported
What Happened:	Not reported
Type:	PETROLEUM
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported

CONTINENTAL OF SAN DIEGO, INC. (Continued) **1000412848**

Year:	1995
Agency:	contental
Incident Date:	0345 26 jan 95
Admin Agency:	Not reported
Amount:	residual on ground
Contained:	YES
Site Type:	IND PLT
E Date:	Not reported
Substance:	transmission fluid
Quantity Released:	Not reported
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	NO
Number of Injuries:	NO
Number of Fatalities:	NO
Description:	transmission failed on truck, some material on the ground carried into storm drain by heavey rains

SAN DIEGO CO. SAM:

Case Number:	H02857-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**XV**
Facility Type:	Soils Only
Facility Status:	Leak Being Confirmed
Date:	5/21/2002
Date Began:	5/21/2002

A12 **CONTINENTAL MARITIME OF SAN DIEGO INC** **RCRA-LQG** **1000818784**
North **1995 BAYFRONT STREET** **CAD983646969**
< 1/8 **SAN DIEGO, CA 92113**
0.028 mi.
149 ft. **Site 12 of 17 in cluster A**

Relative:
Higher

Actual:
23 ft.

RCRA-LQG:

Date form received by agency:	03/16/2012
Facility name:	CONTINENTAL MARITIME OF SAN DIEGO INC
Facility address:	1995 BAYFRONT STREET SAN DIEGO, CA 92113
EPA ID:	CAD983646969
Mailing address:	BAYFRONT STREET SAN DIEGO, CA 92113
Contact:	RUSSELL A MCCARTHY
Contact address:	BAYFRONT STREET SAN DIEGO, CA 92113
Contact country:	Not reported
Contact telephone:	(619) 235-8851

CONTINENTAL MARITIME OF SAN DIEGO INC (Continued) **1000818784**

Telephone ext.: 531
Contact email: RMCCARTHY@CONTINENTALMARITIME.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CONTINENTAL MARITIME SAN DIEGO
Owner/operator address: PACIFIC HWY
SAN DIEGO, CA 92101
Owner/operator country: Not reported
Owner/operator telephone: (619) 686-6200
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/01/1986
Owner/Op end date: Not reported

Owner/operator name: CONTINENTAL MARITIME IND
Owner/operator address: 1995 BAY FRONT ST
SAN DIEGO, CA 92113
Owner/operator country: Not reported
Owner/operator telephone: (619) 234-8851
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PORT OF SAN DIEGO
Owner/operator address: PACIFIC HWY
SAN DIEGO, CA 92101
Owner/operator country: Not reported
Owner/operator telephone: (619) 686-6200
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 12/18/1962
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No

CONTINENTAL MARITIME OF SAN DIEGO INC (Continued) **1000818784**

Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/13/2011
Site name: CONTINENTAL MARITIME OF SAN DIEGO
Classification: Large Quantity Generator

Date form received by agency: 02/03/2008
Site name: CONTINENTAL MARITIME OF SAN DIEGO (NORTH ISLAND GENERATOR)
Classification: Large Quantity Generator

Date form received by agency: 02/20/2004
Site name: CONTINTAL MARITIME INC.
Classification: Small Quantity Generator

Date form received by agency: 02/20/2004
Site name: CONTINTAL MARITIME INC.
Classification: Large Quantity Generator

Date form received by agency: 02/28/2002
Site name: CONTINENTAL MARITIME INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: CONTINENTAL MARITIME OF SD INC
Classification: Small Quantity Generator

Date form received by agency: 05/08/1995
Site name: CONTINENTAL MARITIME OF SD INC
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 212
Waste name: 212

Waste code: 214
Waste name: 214

Waste code: 352
Waste name: 352

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

CONTINENTAL MARITIME OF SAN DIEGO INC (Continued) **1000818784**

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: 352
Waste name: 352

Waste code: 461
Waste name: 461

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

CONTINENTAL MARITIME OF SAN DIEGO INC (Continued) **1000818784**

Amount (Lbs): 3539

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 14344

Waste code: D008
Waste name: LEAD
Amount (Lbs): 14344

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 3539

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 3539

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 3539

Violation Status: No violations found

A13 **CONTINENTAL MARITIME OF S D, INC** **CA AST** **A100345664**
North **1995 BAYFRONT ST** **N/A**
< 1/8 **SAN DIEGO, CA 92113**
0.028 mi.
149 ft. **Site 13 of 17 in cluster A**

Relative:
Higher

Actual:
23 ft.

AST:
Owner: CONTINENTAL MARITIME OF S, INC
Total Gallons: 16313
Certified Unified Program Agencies: San Diego

A14 North < 1/8 0.028 mi. 149 ft. **SOUTHBAY SANDBLASTING AND TANK CLEAN** **RCRA-SQG 1001217436**
1995 BAYFRONT ST PIER 1 2 3 AN **FINDS CAR000034363**
SAN DIEGO, CA 92113

Site 14 of 17 in cluster A

Relative: Higher

Actual: 23 ft.

RCRA-SQG:

Date form received by agency:	12/04/1997
Facility name:	SOUTHBAY SANDBLASTING AND TANK CLEAN
Facility address:	1995 BAYFRONT ST PIER 1 2 3 AN SAN DIEGO, CA 92173
EPA ID:	CAR000034363
Mailing address:	3763 DELBERGIA ST SAN DIEGO, CA 92113
Contact:	CARLOS BERNAL
Contact address:	3763 DELBERGIA ST SAN DIEGO, CA 92113
Contact country:	US
Contact telephone:	(619) 238-8338
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CANUTO LOPEZ
Owner/operator address:	3763 DELBERGIA ST SAN DIEGO, CA 92113
Owner/operator country:	Not reported
Owner/operator telephone:	(619) 238-8338
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:
Date form received by agency: 12/04/1997

SOUTHBAY SANDBLASTING AND TANK CLEAN (Continued) **1001217436**

Site name: SOUTHBAY SANDBLASTING AND TANK CLEAN
Classification: Large Quantity Generator

Date form received by agency: 12/04/1997
Site name: SOUTHBAY SANDBLASTING AND TANK CLEAN
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002920199

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

A15 **BAE SYSTEMS CMSD** **RCRA-LQG** **1004678397**
North **1995 BAY FRONT STREET** **CAR000108548**
< 1/8 **SAN DIEGO, CA 92113**
0.028 mi.
149 ft. **Site 15 of 17 in cluster A**

Relative:
Higher

Actual:
23 ft.

RCRA-LQG:
Date form received by agency: 08/21/2012
Facility name: BAE SYSTEMS CMSD
Facility address: 1995 BAY FRONT STREET
SAN DIEGO, CA 92113
EPA ID: CAR000108548
Mailing address: P.O. BOX 13308
SAN DIEGO, CA 92170
Contact: SANDOR HALVAX
Contact address: P.O. BOX 13308
SAN DIEGO, CA 92170
Contact country: Not reported
Contact telephone: (619) 238-1000
Telephone ext.: 2060
Contact email: SANDOR.HALVAX@BAESYSTEMS.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

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BAE SYSTEMS CMSD (Continued) **1004678397**

Owner/Operator Summary:

Owner/operator name:	SAN DIEGO UNIFIED PORT DISTRICT
Owner/operator address:	PACIFIC HIGHWAY
	SAN DIEGO, CA 92101
Owner/operator country:	Not reported
Owner/operator telephone:	(619) 686-6200
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1900
Owner/Op end date:	Not reported

Owner/operator name:	SOUTHWEST MARINE INC
Owner/operator address:	FT OF SAMPSON ST
	SAN DIEGO, CA 92170
Owner/operator country:	Not reported
Owner/operator telephone:	(619) 238-1000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	BAE SYSTEMS SAN DIEGO SHIP REPAIR
Owner/operator address:	P.O. BOX 13308
	SAN DIEGO, CA 92170
Owner/operator country:	Not reported
Owner/operator telephone:	6192381000 2060
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	09/17/1979
Owner/Op end date:	Not reported

Owner/operator name:	NORTHROP GRUMMAN, INC.
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/1980
Owner/Op end date:	Not reported

Owner/operator name:	CONTINENTAL MARITIME, SAN DIEGO
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1980
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No

BAE SYSTEMS CMSD (Continued) **1004678397**

Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Universal Waste Summary:

Waste type:	Batteries
Accumulated waste on-site:	Unknown
Generated waste on-site:	Yes

Historical Generators:

Date form received by agency:	03/01/2008
Site name:	BAE SYSTEMS CMSD
Classification:	Large Quantity Generator
Date form received by agency:	02/24/2006
Site name:	BAE SYSTEMS / CMSD
Classification:	Large Quantity Generator
Date form received by agency:	07/22/2005
Site name:	BAE SYSTEMS CMSD
Classification:	Large Quantity Generator
Date form received by agency:	03/01/2004
Site name:	SOUTHWEST MARINE CMSD
Classification:	Large Quantity Generator
Date form received by agency:	03/28/2002
Site name:	SOUTHWEST MARINE, INC. (CMSD)
Classification:	Large Quantity Generator
Date form received by agency:	11/05/2001
Site name:	SOUTHWEST MARINE C M S D
Classification:	Large Quantity Generator

Hazardous Waste Summary:

Waste code:	D001
Waste name:	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Waste code:	D002
Waste name:	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN

BAE SYSTEMS CMSD (Continued) **1004678397**

OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 2606

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

BAE SYSTEMS CMSD (Continued) **1004678397**

Amount (Lbs): 4992

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 2606

Violation Status: No violations found

A16
North
< 1/8
0.028 mi.
149 ft.

Relative:
Higher

Actual:
23 ft.

CONTINENTAL MARTIME NASSCO **RCRA-LQG 1010313741**
1995 BAY FRONT ST PIER 5 **CA HAZNET CAR000177378**
SAN DIEGO, CA 92113

Site 16 of 17 in cluster A

RCRA-LQG:
Date form received by agency: 04/25/2012
Facility name: CONTINENTAL MARTIME NASSCO
Facility address: 1995 BAY FRONT ST PIER 5
SAN DIEGO, CA 92113
EPA ID: CAR000177378
Mailing address: P.O. BOX 85278, MS-22A
SAN DIEGO, CA 921865278
Contact: MICHAEL CHEE
Contact address: P.O. BOX 85278, MS-22A
SAN DIEGO, CA 921865278
Contact country: Not reported
Contact telephone: (619) 544-7778
Contact email: MCHEE@NASSCO.COM
EPA Region: 09
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: SAN DIEGO UNIFIED PORT DISTRICT
Owner/operator address: BAY FRONT ST PIER 5
SAN DIEGO, CA 92113
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 02/14/1963
Owner/Op end date: Not reported

Owner/operator name: CONTINENTAL MARITIME INC.
Owner/operator address: BAY FRONT ST PIER 5
SAN DIEGO, CA 92113

CONTINENTAL MARTIME NASSCO (Continued) **1010313741**

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/01/1986
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/24/2010
Site name: CONTINENTAL MARITIME NASSCO
Classification: Large Quantity Generator

Date form received by agency: 02/29/2008
Site name: CONTINENTAL MARTIME NASSCO
Classification: Large Quantity Generator

Date form received by agency: 09/19/2006
Site name: CONTINENTAL MARTIME NASSCO
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

CONTINENTAL MARTIME NASSCO (Continued) **1010313741**

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 90577

Waste code: D005
Waste name: BARIUM
Amount (Lbs): 2605

Waste code: D006
Waste name: CADMIUM
Amount (Lbs): 2605

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 2605

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 82181

CONTINENTAL MARTIME NASSCO (Continued) **1010313741**

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 4161

Violation Status: No violations found

HAZNET:
Year: 2012
Gepaid: CAR000177378
Contact: MICHAEL CHEE
Telephone: 6195447778
Mailing Name: Not reported
Mailing Address: PO BOX 85278 MS 22A
Mailing City,St,Zip: SAN DIEGO, CA 921865278
Gen County: San Diego
TSD EPA ID: TND000772186
TSD County: 99
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 4.0625
Facility County: San Diego

Year: 2012
Gepaid: CAR000177378
Contact: MICHAEL CHEE
Telephone: 6195447778
Mailing Name: Not reported
Mailing Address: PO BOX 85278 MS 22A
Mailing City,St,Zip: SAN DIEGO, CA 921865278
Gen County: San Diego
TSD EPA ID: TND000772186
TSD County: 99
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.175
Facility County: San Diego

Year: 2012
Gepaid: CAR000177378
Contact: MICHAEL CHEE
Telephone: 6195447778
Mailing Name: Not reported
Mailing Address: PO BOX 85278 MS 22A
Mailing City,St,Zip: SAN DIEGO, CA 921865278
Gen County: San Diego
TSD EPA ID: TND000772186

CONTINENTAL MARTIME NASSCO (Continued) **1010313741**

TSD County: 99
Waste Category: Not reported
Disposal Method: Not reported
Tons: 1.55
Facility County: San Diego

Year: 2012
Gepaid: CAR000177378
Contact: MICHAEL CHEE
Telephone: 6195447778
Mailing Name: Not reported
Mailing Address: PO BOX 85278 MS 22A
Mailing City,St,Zip: SAN DIEGO, CA 921865278
Gen County: San Diego
TSD EPA ID: TND000772186
TSD County: 99
Waste Category: Not reported
Disposal Method: Not reported
Tons: 0.2125
Facility County: San Diego

Year: 2012
Gepaid: CAR000177378
Contact: MICHAEL CHEE
Telephone: 6195447778
Mailing Name: Not reported
Mailing Address: PO BOX 85278 MS 22A
Mailing City,St,Zip: SAN DIEGO, CA 921865278
Gen County: San Diego
TSD EPA ID: TND000772186
TSD County: 99
Waste Category: Not reported
Disposal Method: Solvents Recovery
Tons: 0.25
Facility County: San Diego

Click this hyperlink while viewing on your computer to access
99 additional CA_HAZNET: record(s) in the EDR Site Report.

A17 **BAY DECKING COMPANY INC** **RCRA NonGen / NLR** **1000110204**
North **1995 BAY FRONT ST** **FINDS** **CAD982019077**
< 1/8 **SAN DIEGO, CA 92113**
0.028 mi.
149 ft. **Site 17 of 17 in cluster A**

Relative:
Higher

Actual:
23 ft.

RCRA NonGen / NLR:
Date form received by agency: 04/22/1992
Facility name: BAY DECKING COMPANY INC
Facility address: 1995 BAY FRONT ST
SAN DIEGO, CA 92113
EPA ID: CAD982019077
Mailing address: 21 COMMERCIAL BLVD SUITE 16
IGNACIO, CA 94947
Contact: MATTHEW TRUJILLO
Contact address: 1995 BAY FRONT ST
SAN DIEGO, CA 92113
Contact country: US
Contact telephone: (510) 769-6033

BAY DECKING COMPANY INC (Continued) **1000110204**

Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: CONTINENTAL MARITIME
Owner/operator address: 1995 BAYFRONT ST
SAN DIEGO, CA 92113
Owner/operator country: Not reported
Owner/operator telephone: (619) 234-8851
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MIGUEL M NARRO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

BAY DECKING COMPANY INC (Continued) **1000110204**

Registry ID: 110009542316

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

B18
East
< 1/8
0.040 mi.
210 ft.

SWRMC/SUPSHIP USN, AT BAE SYSTEMS SAN DIEGO SHIP REPAIR **RCRA-LQG** **1000820614**
FOOT OF SAMPSON STREET **CA1170090616**
SAN DIEGO, CA 92170

Site 1 of 14 in cluster B

Relative:
Higher

Actual:
22 ft.

RCRA-LQG:

Date form received by agency:	06/17/2010
Facility name:	SWRMC/SUPSHIP USN, AT BAE SYSTEMS SAN DIEGO SHIP REPAIR
Facility address:	FOOT OF SAMPSON STREET SAN DIEGO, CA 92170
EPA ID:	CA1170090616
Mailing address:	SWRMC/SUPSHIP SAN DIEGO, USN 3755 BRINSER ST. C106 BLDG 91 SAN DIEGO, CA 921365299
Contact:	ANDRES G QUINONES
Contact address:	SWRMC/SUPSHIP SAN DIEGO, USN 3755 BRINSER ST. C106 BLDG 91 SAN DIEGO, CA 921365299
Contact country:	US
Contact telephone:	(619) 556-1055
Contact email:	ANDRES.QUINONES@NAVY.MIL
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	SOUTHWEST MARINE INC
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1975
Owner/Op end date:	Not reported

SWRMC/SUPSHIP USN, AT BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1000820614**

Owner/operator name: PORT OF SAN DIEGO
Owner/operator address: 3165 PACIFIC HWY
SAN DIEGO, CA 92101
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1930
Owner/Op end date: Not reported

Owner/operator name: PORT OF SAN DIEGO
Owner/operator address: 3165 PACIFIC HWY
SAN DIEGO, CA 92101
Owner/operator country: US
Owner/operator telephone: (619) 686-6200
Legal status: County
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1930
Owner/Op end date: Not reported

Owner/operator name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 06/24/2005
Owner/Op end date: Not reported

Owner/operator name: SOUTH WEST MARINE INC
Owner/operator address: FOOT OF SAMPSON ST
SAN DIEGO, CA 92113
Owner/operator country: Not reported
Owner/operator telephone: (619) 238-1000
Legal status: Federal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

SWRMC/SUPSHIP USN, AT BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1000820614**

Historical Generators:

Date form received by agency: 02/20/2008
Site name: SOUTHWEST REGIONAL MAINTENANCE CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/15/2006
Site name: SOUTHWEST REGIONAL MAINTENANCE CENTER
Classification: Small Quantity Generator

Date form received by agency: 02/15/2006
Site name: SOUTHWEST REGIONAL MAINTENANCE CENTER
Classification: Large Quantity Generator

Date form received by agency: 02/16/2005
Site name: SOUTHWEST REGIONAL MAINTENANCE CENTER
Classification: Large Quantity Generator

Date form received by agency: 01/30/2004
Site name: NAVSEA SAN DIEGO,USN AT SOUTHWEST MARINE
Classification: Large Quantity Generator

Date form received by agency: 01/30/2002
Site name: SUPERVISOR OF SHIPBUILDING, CONVERSIONA
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: SOUTHWEST MARINE INC.
Classification: Large Quantity Generator

Date form received by agency: 03/04/1999
Site name: SOUTHWEST MARINE INC.
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: USNAVY SUPERVISOR OF SHIPBUILDING
Classification: Large Quantity Generator

Date form received by agency: 02/26/1996
Site name: SOUTHWEST MARINE INC.
Classification: Large Quantity Generator

Date form received by agency: 03/18/1994
Site name: SOUTHWEST MARINE, INC OF SAN DIEGO
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002

SWRMC/SUPSHIP USN, AT BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1000820614**

Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D018
Waste name: BENZENE

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D005
Waste name: BARIUM

SWRMC/SUPSHIP USN, AT BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1000820614**

Waste code: D006
Waste name: CADMIUM

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

B19 **SOUTHWEST MARINE INC** **CA SAN DIEGO CO. SAM** **S108407254**
ENE **1427 W SAMPSON ST** **N/A**
< 1/8 **SAN DIEGO, CA 92113**
0.040 mi.
213 ft. **Site 2 of 14 in cluster B**

Relative: SAN DIEGO CO. SAM:
Higher Case Number: H09689-003
Agency: CA Regional Water Quality Control Board
Actual: **Funding:** **Non Billable**
24 ft. Facility Type: Complaint
Facility Status: Remedial Investigation
Date: 11/2/2009
Date Began: 9/11/2002

B20 **SOUTHWEST MARINE, INC.** **CA HIST UST** **U001572997**
East **2205 E BELT ST** **N/A**
< 1/8 **SAN DIEGO, CA 92113**
0.044 mi.
231 ft. **Site 3 of 14 in cluster B**

Relative: HIST UST:
Higher Region: STATE
Facility ID: 00000036362
Actual: Facility Type: Other
22 ft. Other Type: BOAT REPAIR
Total Tanks: 0003
Contact Name: DAVE BECHTEL
Telephone: 6192381000
Owner Name: SOUTHWEST MARINE, INC.
Owner Address: 2205 BELT STREET
Owner City,St,Zip: SAN DIEGO, CA 92113

Tank Num: 001
Container Num: 1
Year Installed: 1983
Tank Capacity: 00009995
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: None

SOUTHWEST MARINE, INC. (Continued) **U001572997**

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00009900
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: None

B21 **BAE SYSTEMS SAN DIEGO SHIP REPAIR** **RCRA-LQG 1015757283**
East **2205 EAST BELT STREET** **PADS CAD981172554**
< 1/8 **SAN DIEGO, CA 92113**
0.044 mi.
231 ft. **Site 4 of 14 in cluster B**

Relative:
Higher

Actual:
22 ft.

RCRA-LQG:
Date form received by agency: 08/21/2012
Facility name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Facility address: 2205 EAST BELT STREET
SAN DIEGO, CA 92113
EPA ID: CAD981172554
Mailing address: P.O. BOX 13308
SAN DIEGO, CA 92170
Contact: SANDOR HALVAX
Contact address: P.O. BOX 13308
SAN DIEGO, CA 92170
Contact country: Not reported
Contact telephone: (619) 238-1000
Telephone ext.: 2060
Contact email: SANDOR.HALVAX@BAESYSTEMS.COM
EPA Region: 09
Land type: District
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: BAE SYSTEMS SAN DIEGO SHIP REPAIR

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

Owner/operator address: P.O. BOX 13308
SAN DIEGO, CA 92170
Owner/operator country: Not reported
Owner/operator telephone: (619) 238-1000
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/17/1979
Owner/Op end date: Not reported

Owner/operator name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/17/1979
Owner/Op end date: Not reported

Owner/operator name: PORT OF SAN DIEGO SHIP REPAIR
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1965
Owner/Op end date: Not reported

Owner/operator name: SAN DIEGO UNIFIED PORT DISTRICT
Owner/operator address: PACIFIC HIGHWAY
SAN DIEGO, CA 92101
Owner/operator country: Not reported
Owner/operator telephone: (619) 686-6200
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 02/14/1963
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

Historical Generators:
Date form received by agency: 03/01/2010
Site name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Classification: Large Quantity Generator

Date form received by agency: 03/01/2008
Site name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Classification: Large Quantity Generator

Date form received by agency: 02/24/2006
Site name: BAE SYSTEMS SAN DIEGO SHIP REPAIR / YARD
Classification: Large Quantity Generator

Date form received by agency: 09/06/2005
Site name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Classification: Large Quantity Generator

Date form received by agency: 07/22/2005
Site name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Classification: Large Quantity Generator

Date form received by agency: 03/01/2004
Site name: SOUTHWEST MARINE, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/29/2002
Site name: SOUTHWEST MARINE, INC. (SAMPSON STREET)
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000
Site name: SOUTHWEST MARINE
Classification: Large Quantity Generator

Date form received by agency: 04/15/1999
Site name: SOUTHWEST MARINE
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: SOUTHWEST MARINE INC
Classification: Large Quantity Generator

Date form received by agency: 03/29/1996
Site name: SOUTWEST MARINE, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/30/1994
Site name: SOUTHWEST MARINE, INC.
Classification: Large Quantity Generator

Date form received by agency: 03/17/1992
Site name: SOUTHWEST MARINE INC
Classification: Large Quantity Generator

Date form received by agency: 05/03/1990
Site name: SOUTHWEST MARINE INC SAN DIEGO DIVISION
Classification: Large Quantity Generator

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

Date form received by agency: 01/22/1986
Site name: SOUTHWEST MARINE INC
Classification: Large Quantity Generator

Hazardous Waste Summary:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D021
Waste name: CHLOROBENZENE

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D018
Waste name: BENZENE

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 42848

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 218109

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.
Amount (Lbs): 18

Waste code: D006

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

Waste name: CADMIUM
Amount (Lbs): 5430

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 20072

Waste code: D008
Waste name: LEAD
Amount (Lbs): 223539

Waste code: D021
Waste name: CHLOROBENZENE
Amount (Lbs): 2591

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 36309

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 4918

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 7663

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/15/2008
Date achieved compliance: 09/13/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/15/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

Regulation violated:	Not reported
Area of violation:	Generators - General
Date violation determined:	05/28/2004
Date achieved compliance:	08/28/2004
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	05/05/1994
Date achieved compliance:	06/12/1996
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	02/17/1994
Date achieved compliance:	05/05/1994
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	11/05/1992
Date achieved compliance:	02/17/1994
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

Evaluation Action Summary:

Evaluation date:	07/31/2009
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	State
Evaluation date:	08/15/2008
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	09/13/2008
Evaluation lead agency:	State
Evaluation date:	05/28/2004
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	08/28/2004
Evaluation lead agency:	State Contractor/Grantee
Evaluation date:	06/12/1996
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Not reported
Date achieved compliance:	Not reported
Evaluation lead agency:	EPA
Evaluation date:	05/05/1994
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	06/12/1996
Evaluation lead agency:	State Contractor/Grantee
Evaluation date:	02/17/1994
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	05/05/1994
Evaluation lead agency:	State Contractor/Grantee
Evaluation date:	11/05/1992
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - General
Date achieved compliance:	02/17/1994
Evaluation lead agency:	State Contractor/Grantee

PADS:

EPAID:	CAD981172554
Facility name:	SOUTHWEST MARINE, INC.
Facility Address:	FOOT OF SAMPSON ST. BOX 13308 SAN DIEGO, CA 92170
Facility country:	US
Generator:	Yes
Storer:	No
Transporter:	No
Disposer:	No
Research facility:	No
Smelter:	No
Facility owner name:	ARTHUR ENGEL/ PORT OF SD
Contact title:	Not reported

BAE SYSTEMS SAN DIEGO SHIP REPAIR (Continued) **1015757283**

Contact name:	RICHARDSON, STEVEN
Contact tel:	(619)238-1000
Contact extension:	Not reported
Mailing address:	FOOT OF SAMPSON ST. BOX 13308 SAN DIEGO, CA 92170
Mailing country:	US
Cert. title:	Not reported
Cert. name:	Not reported
Cert. date:	08/28/1991
Date received:	09/10/1991

B22 **BAE SYSTEMS SHIPYARD** **RCRA-LQG** **1014915603**
East **2205 E BELT ST** **CAR000220400**
< 1/8 **SAN DIEGO, CA 92113**
0.044 mi.
231 ft. **Site 5 of 14 in cluster B**

Relative:
Higher

Actual:
22 ft.

RCRA-LQG:

Date form received by agency:	08/29/2011
Facility name:	BAE SYSTEMS SHIPYARD
Facility address:	2205 E BELT ST POSD PIER SAN DIEGO, CA 92113
EPA ID:	CAR000220400
Mailing address:	9500 GODWIN DR B 115 015 MANASSAS, VA 20110
Contact:	JOSEPH C ZALEWSKI
Contact address:	9500 GODWIN DR B 115 015 MANASSAS, VA 20110
Contact country:	US
Contact telephone:	703-367-6252
Contact email:	JOE.ZALEWSKI@LMCO.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	LOCKHEED MARTIN
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/27/2011

BAE SYSTEMS SHIPYARD (Continued) **1014915603**

Owner/Op end date: Not reported

Owner/operator name: PORT OF SAN DIEGO
Owner/operator address: 3165 PACIFIC HWY
SAN DIEGO, CA 92101
Owner/operator country: US
Owner/operator telephone: 619-686-7283
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1963
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 06/29/2011
Site name: BAE SYSTEMS SHIPYARD
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: 181
Waste name: 181

Waste code: 221
Waste name: 221

Waste code: 223
Waste name: 223

Waste code: 352
Waste name: 352

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

BAE SYSTEMS SHIPYARD (Continued) **1014915603**

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D005
Waste name: BARIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

B23 **SOUTHWEST MARINE INC.** **CA HIST CORTESE** **1000411002**
East **FOOT OF SAMPSON ST** **CA LUST** **N/A**
< 1/8 **SAN DIEGO, CA 92170** **CA Notify 65**
0.044 mi. **CA San Diego Co. HMMD**
231 ft. **Site 6 of 14 in cluster B** **CA EMI**

Relative:
Higher

Actual:
22 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT3470

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT3470
Local Case: H09689-002

SOUTHWEST MARINE INC. (Continued) **1000411002**

Substance: Diesel
Qty Leaked: Not reported
Abate Method: No Action Required - incident is minor, requiring no remedial action
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Corrosion
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 12/30/1996
Date Stopped: 12/30/1996
Confirm Date: 05/19/1997
Submit Workplan: 5/27/97
Prelim Assess: / /
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 12/30/1996
Enforce Date: Not reported
Closed Date: 7/13/98
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 8'
Beneficial Use: NBNB/E
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: Administratively opened on database, however no file physically exists
Interim Remedial Actions: Not reported
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: Not reported

SAN DIEGO CO. HMMD:
Facility Id: 132800
Business Type: Not reported
EPA Id Number: Not reported
APN: DEH-132800
Last HMMD Inspection: Not reported
Permit Status: INAC
Permit Expiration: Not reported
Facility Owner: SAN DIEGO UNIFIED PORT DISTRIC
Facility Address: PO BOX 488
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92112-0488
UST Owner: Not reported

SOUTHWEST MARINE INC. (Continued) **1000411002**

Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

EMI:

Year:	1987
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	50
Reactive Organic Gases Tons/Yr:	38
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	3
SOX - Oxides of Sulphur Tons/Yr:	5
Particulate Matter Tons/Yr:	8
Part. Matter 10 Micrometers & Smllr Tons/Yr:	7

Year:	1990
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47
Reactive Organic Gases Tons/Yr:	41
Carbon Monoxide Emissions Tons/Yr:	8
NOX - Oxides of Nitrogen Tons/Yr:	6
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers & Smllr Tons/Yr:	1

Year:	1995
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	61
Reactive Organic Gases Tons/Yr:	58
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	8

SOUTHWEST MARINE INC. (Continued) **1000411002**

Part. Matter 10 Micrometers & Smllr Tons/Yr:	7
Year:	1996
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	61
Reactive Organic Gases Tons/Yr:	58
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	2
Particulate Matter Tons/Yr:	8
Part. Matter 10 Micrometers & Smllr Tons/Yr:	7
Year:	1998
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	32
Reactive Organic Gases Tons/Yr:	31
Carbon Monoxide Emissions Tons/Yr:	17
NOX - Oxides of Nitrogen Tons/Yr:	42
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	5
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5
Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	43
Reactive Organic Gases Tons/Yr:	42
Carbon Monoxide Emissions Tons/Yr:	8
NOX - Oxides of Nitrogen Tons/Yr:	35
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6
Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	478

SOUTHWEST MARINE INC. (Continued) **1000411002**

Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	63
Reactive Organic Gases Tons/Yr:	62
Carbon Monoxide Emissions Tons/Yr:	9
NOX - Oxides of Nitrogen Tons/Yr:	41
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	34
Reactive Organic Gases Tons/Yr:	33
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	26
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers & Smllr Tons/Yr:	6

Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47
Reactive Organic Gases Tons/Yr:	47
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	19
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	5
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5

Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47

SOUTHWEST MARINE INC. (Continued) **1000411002**

Reactive Organic Gases Tons/Yr:	47
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	19
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	5
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5

Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	47.10779044
Reactive Organic Gases Tons/Yr:	46.70312968
Carbon Monoxide Emissions Tons/Yr:	4.89075181
NOX - Oxides of Nitrogen Tons/Yr:	18.7063867
SOX - Oxides of Sulphur Tons/Yr:	0.257661755
Particulate Matter Tons/Yr:	5.064479915
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5.047541285

Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	478
Air District Name:	SD
SIC Code:	3731
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	38.573483
Reactive Organic Gases Tons/Yr:	38.212401
Carbon Monoxide Emissions Tons/Yr:	5.03316
NOX - Oxides of Nitrogen Tons/Yr:	22.07
SOX - Oxides of Sulphur Tons/Yr:	.247892
Particulate Matter Tons/Yr:	10.77888751568088157
Part. Matter 10 Micrometers & Smllr Tons/Yr:	8.255461835

B24 **SOUTHWEST MARINE** **CERC-NFRAP** **1015732845**
East **2205 EAST BELT (FOOT OF SAMPSON)** **CAD981172554**
< 1/8 **SAN DIEGO, CA 92113**
0.044 mi.
231 ft. **Site 7 of 14 in cluster B**

Relative:
Higher

Actual:
22 ft.

CERC-NFRAP:

Site ID:	0904776
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13287181.00000
Person ID:	13003854.00000

SOUTHWEST MARINE (Continued) **1015732845**

Contact Sequence ID: 13292776.00000
Person ID: 13003858.00000

Contact Sequence ID: 13298634.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 02/08/93
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/10/94
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 01/10/94
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

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B25 **PACIFIC SHIP REPAIR AND FABRICATION BAE** **RCRA-SQG 1008402385**
East **2205 E BELT ST** **ICIS CAR000164632**
< 1/8 **SAN DIEGO, CA 92113** **FINDS**
0.044 mi.
231 ft. **Site 8 of 14 in cluster B**

Relative:
Higher

Actual:
22 ft.

RCRA-SQG:
Date form received by agency: 07/15/2005
Facility name: PACIFIC SHIP REPAIR AND FABRICATION BAE
Facility address: 2205 E BELT ST
PIER 1
SAN DIEGO, CA 92113
EPA ID: CAR000164632
Mailing address: 1625 RIGEL ST
SAN DIEGO, CA 92113
Contact: LISA L SIPES
Contact address: 1625 RIGEL ST
SAN DIEGO, CA 92113
Contact country: US
Contact telephone: 619-232-3200
Telephone ext.: 155
Contact email: LSIPES@PACSHIP.COM
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: PACIFIC SHIP REPAIR AND FABRICATION
Owner/operator address: Not reported
Not reported
Owner/operator country: US

PACIFIC SHIP REPAIR AND FABRICATION BAE (Continued) **1008402385**

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/13/2005
Owner/Op end date: Not reported

Owner/operator name: PORT OF SAN DIEGO
Owner/operator address: PO BOX 488
SAN DIEGO, CA 92112
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1965
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D005
Waste name: BARIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: F003

PACIFIC SHIP REPAIR AND FABRICATION BAE (Continued) **1008402385**

Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

ICIS:

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: BR CAT000614933
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634
State: California
Facility Name: BAE SYSTEMS (NASSCO)
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: BR CAD981172554
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634
State: California
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: FRS 110002943450
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634
State: California
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: TRIS 92113STHWSFOOTO
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634

PACIFIC SHIP REPAIR AND FABRICATION BAE (Continued) **1008402385**

State: California
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: RCRAINFO CAD981172554
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634
State: California
Facility Name: SOUTHWEST MARINE INC
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: RCRAINFO CAT000614933
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634
State: California
Facility Name: CHEVRON USA INC BUMBLE BEE SEAFOODS BP
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: RCRAINFO CAR000223297
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634
State: California
Facility Name: NATIONAL STEEL AND SHIP BUILDING COMPANY BAE SYSTEMS
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: RCRAINFO CAR000164632
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634
State: California
Facility Name: PACIFIC SHIP REPAIR AND FABRICATION BAE
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program

PACIFIC SHIP REPAIR AND FABRICATION BAE (Continued) **1008402385**

Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2007-0089
FRS ID: 110002943450
Program ID: RCRAINFO CAR000220400
Action Name: BAE SYSTEMS
Full Address: 2205 E BELT ST SAN DIEGO CA 92113-3634
State: California
Facility Name: BAE SYSTEMS SHIPYARD
Facility Address: 2205 E BELT ST
SAN DIEGO, CA 92113-3634
Enforcement Action Type: CWA 311B6B1 AO For Class I Penalty - SPCC Expedited Settlement Program
Facility County: SAN DIEGO
EPA Region #: 9

Program ID: BR CAD981172554
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

Program ID: BR CAT000614933
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

Program ID: FRS 110002943450
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

Program ID: RCRAINFO CAD981172554
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

Program ID: RCRAINFO CAR000164632
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

PACIFIC SHIP REPAIR AND FABRICATION BAE (Continued) **1008402385**

Program ID: RCRAINFO CAR000220400
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

Program ID: RCRAINFO CAR000223297
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

Program ID: RCRAINFO CAT000614933
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

Program ID: TRIS 92113STHWSFOOTO
Facility Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Address: 2205 E BELT ST
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: 5169

FINDS:

Registry ID: 110002943450

Environmental Interest/Information System

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all

PACIFIC SHIP REPAIR AND FABRICATION BAE (Continued) **1008402385**

Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

B26 **BAE SYSTEMS (NASSCO)** **RCRA-LQG** **1000434381**
East **2205 E BELT STREET** **CAT000614933**
< 1/8 **SAN DIEGO, CA 92113**
0.044 mi.
231 ft. **Site 9 of 14 in cluster B**

Relative:
Higher

Actual:
22 ft.

RCRA-LQG:

Date form received by agency:	02/29/2008
Facility name:	BAE SYSTEMS (NASSCO)
Facility address:	2205 E BELT STREET SAN DIEGO, CA 92113
EPA ID:	CAT000614933
Mailing address:	P.O BOX 85278 MS 22A SAN DIEGO, CA 92186
Contact:	MICHAEL CHEE
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(619) 544-7778
Contact email:	MCHEE@NASSCO.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	SAN DIEGO UNIFIED PORT DISTRICT
Owner/operator address:	P.O. BOX 120488 SAN DIEGO, CA 92112
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	09/17/1965
Owner/Op end date:	Not reported
Owner/operator name:	CHEVRON USA INC

BAE SYSTEMS (NASSCO) (Continued) **1000434381**

Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BAE SYSTEMS SAN DIEGO SHIP REPAIR
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 09/17/1979
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/04/2007
Site name: BAE SYSTEMS
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: CHEVRON USA INC BUMBLE BEE SEAFOODS BP
Classification: Small Quantity Generator

Date form received by agency: 08/15/1980

BAE SYSTEMS (NASSCO) (Continued) **1000434381**

Site name: CHEVRON USA INC BUMBLE BEE SEAFOODS BP
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

B27 **SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP** **CA NPDES S109424073**
East **2205 EAST BELT STREET** **CA SLIC N/A**
< 1/8 **SAN DIEGO, CA 92113** **CA CHMIRS**
0.044 mi. **CA ENF**
231 ft. **Site 10 of 14 in cluster B**

Relative:
Higher

Actual:
22 ft.

NPDES:

Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	9
Regulatory Measure Id:	431431
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37C364730
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	10/05/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	BAE Systems Ship Repair
Discharge Address:	PO Box 13308
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92170

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	11/02/2009
Global Id:	SL607392738
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Lead Agency Case Number:	Not reported
Latitude:	32.6913265590921
Longitude:	-117.145285606384
Case Type:	Cleanup Program Site
Case Worker:	JC
Local Agency:	Not reported
RB Case Number:	2090005
File Location:	Regional Board
Potential Media Affected:	Sediments, Surface water
Potential Contaminants of Concern:	Polychlorinated biphenyls (PCBs), Arsenic, Copper, Lead, Other Metal, Other Petroleum, Polynuclear aromatic hydrocarbons (PAHs), * * CADMIUM, * * MERCURY
Site History:	From 1979 to the present, Southwest Marine, Inc. and its successor BAE Systems have owned and operated a ship repair, alteration, and overhaul facility on approximately 39.6 acres of tidelands property on the eastern waterfront of central San Diego Bay. The facility, currently referred to as BAE Systems San Diego Ship Repair, is located on land leased from the Port District at 2205 East Belt Street, foot of Sampson Street in San Diego, San Diego County, California. Shipyard facilities operated by BAE Systems over the years have included concrete platens used for steel fabrication, two floating dry docks, five piers, and two marine railways. An assortment of waste has been generated at the facility including spent abrasive, paint, rust, petroleum products, marine growth, sanitary waste, and general refuse.

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	02/24/2012
Global Id:	T10000003580
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Lead Agency Case Number:	Not reported
Latitude:	32.6892678530092
Longitude:	-117.14301109314
Case Type:	Cleanup Program Site
Case Worker:	DTB
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Stored electronically as an E-file
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Polychlorinated biphenyls (PCBs), Copper, Mercury (elemental), Other Metal, Polynuclear aromatic hydrocarbons (PAHs)
Site History:	Discharges of metals and other pollutant2 wastes to San Diego Bay marine sediment and water have resulted in the accumulation of pollutants in bay bottom marine sediment. The contaminated marine sediments are located along the eastern shore of central San Diego Bay and encompass an area extending approximately from the Sampson Street Extension to the northwest and Chollas Creek to the southeast and from the shoreline out to the San Diego Bay main shipping channel

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

on the southwest. The Shipyard Sediment Site is located on the eastern shore of central San Diego Bay, approximately one half mile south of the Coronado Bridge and half the total distance into the Bay. The NASSCO and BAE Systems leaseholds, portions of which lie in the Shipyard Sediment Site, are adjacent to each other, have a similar range of water depths, and lie within the same hydrologic and biogeographic area. The Shipyard Sediment Site encompasses the entire 56 water acres of the NASCCO and BAE Systems leaseholds.

Click here to access the California GeoTracker records for this facility:

CHMIRS:

OES Incident Number:	'13-5559	
OES notification:	09/05/2013	
OES Date:	Not reported	
OES Time:	Not reported	
Incident Date:	Not reported	
Date Completed:	**Not reported**	
Property Use:	Not reported	
Agency Id Number:	Not reported	
Agency Incident Number:	Not reported	
Time Notified:	Not reported	
Time Completed:	Not reported	
Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA/DOT/PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Comments:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	Yes	
Waterway:	San Diego Bay	
Spill Site:	Waterways	
Cleanup By:	Unrecoverable	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Gal(s)	
Other:	Not reported	
Date/Time:	945	
Year:	2013	
Agency:	BAE Systems	
Incident Date:	9/5/2013	
Admin Agency:	San Diego County Health Services Department	

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Amount:	Not reported
Contained:	Yes
Site Type:	San Diego Bay
E Date:	Not reported
Substance:	Salt Water/Oily Substance mix
Quantity Released:	2-Jan
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	RP states that while disconnecting a salt water hose, water came in contact with an oily substance on the deck and travelled overboard into open water. The release is contained and the sheen has dissipated. San Diego Bay has been impacted.

OES Incident Number:	'12-1214
OES notification:	03/02/2012
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported

More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported

Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	San Diego Bay
Spill Site:	Ship/Harbor/Port,Waterways
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Oz.
Other:	Not reported
Date/Time:	1242
Year:	2012
Agency:	BAE San Diego Ship Repair
Incident Date:	3/2/2012
Admin Agency:	San Diego County Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	San Diego Bay
E Date:	Not reported
Substance:	Lubricating Oil
Quantity Released:	1
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	Caller states substance released due to operator error while performing maintenance on a ship. The release spilled within a containment boom and absorbents were applied.
OES Incident Number:	'13-5494
OES notification:	09/03/2013
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	San Diego Bay
Spill Site:	Waterways
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Oz.
Other:	Not reported
Date/Time:	818
Year:	2013
Agency:	BAE Systems
Incident Date:	9/3/2013
Admin Agency:	San Diego County Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	San Diego Bay
E Date:	Not reported
Substance:	Hydraulic Oil
Quantity Released:	4
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	RP states that a compressor inside a machine room suffered a mechanical malfunction resulting in the release of less than 4oz of hydraulic oil into a drain which leads San Diego Bay. The release is contained and cleanup is complete. Caller sates the oil that impacted the water has naturally dissipated. San Diego Bay has been impacted.

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

OES Incident Number:	'12-1595	
OES notification:	03/18/2012	
OES Date:	Not reported	
OES Time:	Not reported	
Incident Date:	Not reported	
Date Completed:	**Not reported**	
Property Use:	Not reported	
Agency Id Number:	Not reported	
Agency Incident Number:	Not reported	
Time Notified:	Not reported	
Time Completed:	Not reported	
Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA/DOT/PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Comments:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	Yes	
Waterway:	San Diego Bay	
Spill Site:	Ship/Harbor/Port	
Cleanup By:	Contractor	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Gal(s)	
Other:	Not reported	
Date/Time:	645	
Year:	2012	
Agency:	BAE Systems	
Incident Date:	3/18/2012	
Admin Agency:	San Diego County Health Services Department	
Amount:	Not reported	
Contained:	Unknown	
Site Type:	San Diego Bay	
E Date:	Not reported	
Substance:	Diesel	
Quantity Released:	20	
BBLS:	Not reported	
Cups:	Not reported	
CUFT:	Not reported	
Gallons:	Not reported	
Grams:	Not reported	
Pounds:	Not reported	

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	The cause of this release is undetermined, still under investigation. The resulting sheen is Rainbow and Brown in color. Caller states the odor of the release is very strong on the pier. Caller states that the ships in dock are not reporting any problems at this time.
OES Incident Number:	'13-5819
OES notification:	09/17/2013
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	San Diego Bay
Spill Site:	Ship/Harbor/Port
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Oz.
Other:	Not reported
Date/Time:	630
Year:	2013

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Agency:	BAE Systems
Incident Date:	9/17/2013
Admin Agency:	San Diego County Health Services Department
Amount:	Not reported
Contained:	Yes
Site Type:	San Diego Bay
E Date:	Not reported
Substance:	Hydraulic Oil
Quantity Released:	2-Jan
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	Caller states an air compressor in a building on the wharf released hydraulic fluid due to unknown causes. Caller states approximately three drops leaked to the bay through a crack in the floor. Caller stated the sheen has dissipated. Caller states the concrete under the wharf has been wiped down and plastic placed under the wharf where the crack is to catch any residual amount remaining in the crack.
OES Incident Number:	'13-4252
OES notification:	07/10/2013
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	San Diego Bay
Spill Site:	Waterways
Cleanup By:	Sheen is naturally dissipating.
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Sheen
Other:	Not reported
Date/Time:	850
Year:	2013
Agency:	BAE Systems
Incident Date:	7/10/2013
Admin Agency:	San Diego County Health Services Department
Amount:	Not reported
Contained:	Unknown
Site Type:	San Diego Bay
E Date:	Not reported
Substance:	Unknown Oil Sheen, Rainbow Colored
Quantity Released:	40 feet by 20 feet
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	Caller states they discovered an unknown sheen from an unknown source within their facility in San Diego Bay. The sheen is naturally dissipating and investigation is ongoing and in process.
OES Incident Number:	'12-2295
OES notification:	04/18/2012
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA/DOT/PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Comments:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	Yes	
Waterway:	San Diego Bay	
Spill Site:	Ship/Harbor/Port	
Cleanup By:	Reporting Party	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Sheen	
Other:	Not reported	
Date/Time:	830	
Year:	2012	
Agency:	BAE Systems	
Incident Date:	4/18/2012	
Admin Agency:	San Diego County Health Services Department	
Amount:	Not reported	
Contained:	Yes	
Site Type:	San Diego Bay	
E Date:	Not reported	
Substance:	Petroleum Sheen	
Quantity Released:	20x200ft	
BBLS:	Not reported	
Cups:	Not reported	
CUFT:	Not reported	
Gallons:	Not reported	
Grams:	Not reported	
Pounds:	Not reported	
Liters:	Not reported	
Ounces:	Not reported	
Pints:	Not reported	
Quarts:	Not reported	
Sheen:	Not reported	
Tons:	Not reported	
Unknown:	Not reported	
Evacuations:	Not reported	
Number of Injuries:	Not reported	
Number of Fatalities:	Not reported	
Description:	RP states that an employee discovered a 20x200 ft sheen off the	

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

vessel USS Green Bay from unknown sources and due to unknown cause. The vessel applied hydrophobic pads, but was unable to pick up any of the sheen. The release is inside of a boomed area. Per NRC: "Caller is reporting an unknown sheen from an unknown source at their facility." Remedial Actions: "Walked the docks and placed a boat in the water to investigate the sheen, tried to place a pad on the sheen but was unsuccessful"

ENF:

Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	257004
Region:	9
Order / Resolution Number:	R9-2001-139
Enforcement Action Type:	Admin Civil Liability
Effective Date:	06/12/2001
Adoption/Issuance Date:	Not reported
Achieve Date:	1989-02-21
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	storm water toxicity violations
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	2003-06-20
# Of Programs1:	1
Total Assessment Amount:	12664
Initial Assessed Amount:	0
Liability $ Amount:	12664
Project $ Amount:	0
Liability $ Paid:	12664
Project $ Completed:	0
Total $ Paid/Completed Amount:	12664

Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	256375
Region:	9
Order / Resolution Number:	R9-2005-0069
Enforcement Action Type:	Notice of Violation
Effective Date:	03/17/2005
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	03/17/2005
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Description:	On February 26, 2004, a discharge of storm water from Pier Three had an 85% survival rate. Viol # 197149, Made histrocial 3/17/2005, PJR
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	252678
Region:	9
Order / Resolution Number:	R9-2004-0376
Enforcement Action Type:	Notice of Violation
Effective Date:	09/07/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Withdrawn
Title:	Enforcement - 9 000000137
Description:	Violation 181531
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	2004-09-07
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	252677
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice of Violation
Effective Date:	09/07/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Withdrawn
Title:	Enforcement - 9 000000137
Description:	Violation 181526
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	2004-09-07
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	250977
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	01/08/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	01/08/2004
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	Spill of dry dock wash down water for approx 15 minutes.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	249639
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Effective Date:	01/22/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	01/22/2004
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	Tetra Tech inspectors noted that pH measurements were not taken within the first 15 minutes.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	234916
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	07/10/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	07/10/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	Chemical analyses for leaks from deionized rainmaker water was not run at detection limit equivalent to ICP/MS detection level. i.e. detection level should be approximately 0.005 mg/l Enf. made Historical by John Phillips on 8/21/03
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	257991

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	234908
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	12/19/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	12/19/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	see violation 4709
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	234872
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	10/31/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	10/31/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	This is for violation 4401. <CR><CR>Need table for violations in annual summary repirt. See 13267 letter dated January 6, 2000.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	234773
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	08/22/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	2000-08-22
Termination Date:	08/22/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	See violation 3942.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	234706
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	10/31/2000
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	10/31/2000
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	This enforcement is for 2 stormwater toxicity samples for the 1999-2000 wet season.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	233239
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice to Comply
Effective Date:	06/29/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	1999-06-29
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	Not reported
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	233220
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice to Comply
Effective Date:	06/29/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	1999-06-29
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	Not reported
Program:	NPDNONMUNIPRCS

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Latest Milestone Completion Date:	1999-07-08
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	233219
Region:	9
Order / Resolution Number:	UNKNOWN
Enforcement Action Type:	Notice to Comply
Effective Date:	06/29/1999
Adoption/Issuance Date:	Not reported
Achieve Date:	1999-07-08
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enforcement - 9 000000137
Description:	Not reported
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	1999-07-08
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDNONMUNIPRCS
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	213825
Reg Measure Type:	Enrollee
Region:	9
Order #:	97-03601
Npdes# CA#:	CAG039001
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	4000
Status:	Historical
Status Date:	02/07/2008
Effective Date:	04/18/1983
Expiration/Review Date:	Not reported
Termination Date:	11/13/2002
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Y
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	222573
Region:	9
Order / Resolution Number:	89-002
Enforcement Action Type:	Admin Civil Liability
Effective Date:	01/23/1989
Adoption/Issuance Date:	01/23/1989
Achieve Date:	1989-02-21
Termination Date:	02/21/1989
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Title:	ACL 89-002 to Southwest Marine for $15,000. Enforcement - 9 000000137
Description:	ISSUED FOR DISCHARGING RAW SEWAGE TO SAN DIEGO BAY.
Program:	NPDNONMUNIPRCS
Latest Milestone Completion Date:	1989-02-21
# Of Programs1:	1
Total Assessment Amount:	15000
Initial Assessed Amount:	0
Liability $ Amount:	15000
Project $ Amount:	0
Liability $ Paid:	15000
Project $ Completed:	0
Total $ Paid/Completed Amount:	15000
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	370013
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	R9-2009-0080
Npdes# CA#:	CA0109151
Major-Minor:	Major
Npdes Type:	OTH

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	4000
Status:	Active
Status Date:	06/30/2011
Effective Date:	06/10/2009
Expiration/Review Date:	06/10/2014
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	396222
Region:	9
Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	Not reported
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Draft
Title:	SEL for BAE Systems San Diego Ship Repair Inc
Description:	Not reported
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	370013
Reg Measure Type:	NPDES Permits
Region:	9
Order #:	R9-2009-0080
Npdes# CA#:	CA0109151
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	4000
Status:	Active
Status Date:	06/30/2011
Effective Date:	06/10/2009
Expiration/Review Date:	06/10/2014
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	391795
Region:	9
Order / Resolution Number:	R9-2013-0119
Enforcement Action Type:	Admin Civil Liability
Effective Date:	09/13/2013
Adoption/Issuance Date:	09/13/2013
Achieve Date:	Not reported
Termination Date:	09/19/2013

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

ACL Issuance Date:	Not reported
EPL Issuance Date:	09/13/2013
Status:	Historical
Title:	ACL R9-2013-0119 for BAE Systems San Diego Ship Repair Inc
Description:	EPL offer to settle $6,000 in MMP for two total recoverable copper effluent limitation violations that occurred on February 28, 2013.
Program:	NPDINDLRG
Latest Milestone Completion Date:	2013-10-10
# Of Programs1:	1
Total Assessment Amount:	6000
Initial Assessed Amount:	6000
Liability $ Amount:	6000
Project $ Amount:	0
Liability $ Paid:	6000
Project $ Completed:	0
Total $ Paid/Completed Amount:	6000
Region:	9
Facility Id:	257991
Agency Name:	BAE Systems San Diego Ship Repair Inc
Place Type:	Manufacturing
Place Subtype:	Boatyard/Shipyard
Facility Type:	Industrial
Agency Type:	Privately-Owned Business
# Of Agencies:	1
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	3731
SIC Desc 1:	Ship Building and Repairing
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	3.31199999
Threat To Water Quality:	1
Complexity:	A
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Process waste, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	NPDINDLRG
Program Category1:	NPDESWW
Program Category2:	NPDESWW
# Of Programs:	1
WDID:	9 000000137
Reg Measure Id:	370013
Reg Measure Type:	NPDES Permits

SAN DIEGO BAY SHIPYARD SEDIMENT CLEANUP (Continued) **S109424073**

Region:	9
Order #:	R9-2009-0080
Npdes# CA#:	CA0109151
Major-Minor:	Major
Npdes Type:	OTH
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	N
Application Fee Amt Received:	4000
Status:	Active
Status Date:	06/30/2011
Effective Date:	06/10/2009
Expiration/Review Date:	06/10/2014
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	66 - NPDES Based on Flow
Direction/Voice:	Passive
Enforcement Id(EID):	386340
Region:	9
Order / Resolution Number:	Not reported
Enforcement Action Type:	Staff Enforcement Letter
Effective Date:	Not reported
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Draft
Title:	SEL for BAE Systems San Diego Ship Repair Inc for Mon Report
Description:	Copper in fire protection water exceeded effluent limits.
Program:	NPDINDLRG
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

B28
East
< 1/8
0.044 mi.
231 ft.

NATIONAL STEEL AND SHIP BUILDING COMPANY BAE SYSTEMS
2205 E BELT STREET BLDG 13
SAN DIEGO, CA 92113

RCRA-LQG **1014922546**
CAR000223297

Site 11 of 14 in cluster B

Relative:
Higher

Actual:
22 ft.

RCRA-LQG:

Date form received by agency:	01/09/2012
Facility name:	NATIONAL STEEL AND SHIP BUILDING COMPANY BAE SYSTEMS
Facility address:	2205 E BELT STREET BLDG 13 SAN DIEGO, CA 92113
EPA ID:	CAR000223297
Mailing address:	PO BOX 85278 MS 22A SAN DIEGO, CA 92186 5278
Contact:	MICHAEL CHEE
Contact address:	PO BOX 85278 MS 22A SAN DIEGO, CA 92186 5278
Contact country:	US
Contact telephone:	619-544-7778
Contact email:	MCHEE@NASSCO.COM
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	UNIFIED PORT OF SAN DIEGO
Owner/operator address:	3165 PACIFIC HIGHWAY SAN DIEGO, CA 92101
Owner/operator country:	US
Owner/operator telephone:	619-686-6200
Legal status:	State
Owner/Operator Type:	Owner
Owner/Op start date:	12/18/1962
Owner/Op end date:	Not reported
Owner/operator name:	BAE SYSTEMS
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/30/2007
Owner/Op end date:	Not reported

Handler Activities Summary:

NATIONAL STEEL AND SHIP BUILDING COMPANY BAE SYSTEMS (Continued) **1014922546**

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Universal Waste Summary:

Waste type:	Batteries
Accumulated waste on-site:	Yes
Generated waste on-site:	Not reported
Waste type:	Thermostats
Accumulated waste on-site:	Yes
Generated waste on-site:	Not reported

Hazardous Waste Summary:

Waste code:	132
Waste name:	132
Waste code:	151
Waste name:	151
Waste code:	181
Waste name:	181
Waste code:	212
Waste name:	212
Waste code:	214
Waste name:	214
Waste code:	223
Waste name:	223
Waste code:	261
Waste name:	261
Waste code:	343
Waste name:	343
Waste code:	352
Waste name:	352
Waste code:	792
Waste name:	792

NATIONAL STEEL AND SHIP BUILDING COMPANY BAE SYSTEMS (Continued) **1014922546**

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

B29 **BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD** **RCRA-LQG 1008402424**
ENE **1401 SAMPSON STREET** **CA NPDES CAR000165183**
< 1/8 **SAN DIEGO, CA 92113**
0.050 mi.
262 ft. **Site 12 of 14 in cluster B**

Relative:
Higher

Actual:
26 ft.

RCRA-LQG:
Date form received by agency: 03/01/2010
Facility name: BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD
Facility address: 1401 SAMPSON STREET
SAN DIEGO, CA 92113
EPA ID: CAR000165183

BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD (Continued) **1008402424**

Mailing address:	P.O. BOX 13308
	SAN DIEGO, CA 92170
Contact:	SANDOR HALVAX
Contact address:	EAST BELT STREET
	SAN DIEGO, CA 92113
Contact country:	Not reported
Contact telephone:	(619) 238-1000
Telephone ext.:	2060
Contact email:	SANDOR.HALVAX@BAESYSTEMS.COM
EPA Region:	09
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	BAE SYSTEMS SAN DIEGO SHIP REPAIR
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/1985
Owner/Op end date:	Not reported

Owner/operator name:	BAE SYSTEMS SAN DIEGO SHIP REPAIR
Owner/operator address:	EAST BELT STREET
	SAN DIEGO, CA 92113
Owner/operator country:	Not reported
Owner/operator telephone:	(619) 238-1000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	12/01/1985
Owner/Op end date:	Not reported

Owner/operator name:	BAE SYSTEMS SAN DIEGO SHIP REPAIR
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	12/01/1985
Owner/Op end date:	Not reported

Owner/operator name:	BAE SYSTEMS SAN DIEGO SHIP REPAIR

BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD (Continued) **1008402424**

Owner/operator address: PO BOX 13308
SAN DIEGO, CA 92170
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1985
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/29/2005
Site name: BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 122
Waste name: 122

Waste code: 181
Waste name: 181

Waste code: 352
Waste name: 352

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD (Continued) **1008402424**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D005
Waste name: BARIUM

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F001
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLOROETHYLENE, METHYLENE CHLORIDE,

BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD (Continued) **1008402424**

1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE, AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/15/2008
Date achieved compliance: 08/15/2008
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/15/2008

BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD (Continued) **1008402424**

Date achieved compliance: 06/22/2009
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/15/2008
Date achieved compliance: 08/15/2008
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/15/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/03/2009
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/15/2008
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - General
Date achieved compliance: 06/22/2009
Evaluation lead agency: State

Evaluation date: 08/15/2008
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Generators - General
Date achieved compliance: 08/15/2008
Evaluation lead agency: State

Evaluation date: 08/15/2008
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

NPDES:
Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 9
Regulatory Measure Id: 218706
Order No: 97-03-DWQ

BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD (Continued) **1008402424**

Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37I015255
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/12/1999
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	BAE Systems San Diego Ship Repair
Discharge Address:	PO Box 13308
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92170

B30 **BAE SYSTEMS SAN DIEGO SHIP REPAIR MSD** **FINDS** **1008905269**
ENE **1401 SAMPSON ST** **CA AST** **N/A**
< 1/8 **SAN DIEGO, CA 92113**
0.050 mi.
262 ft. **Site 13 of 14 in cluster B**

Relative:
Higher

Actual:
26 ft.

FINDS:

Registry ID: 110022819477

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

AST:

Owner:	BAE SYSTEMS
Total Gallons:	1555
Certified Unified Program Agencies:	San Diego

B31 **BAE SYSTEMS (MSD)** **CA SWEEPS UST** **S104750101**
ENE **1401 SAMPSON ST** **CA San Diego Co. HMMD** **N/A**
< 1/8 **SAN DIEGO, CA 92113**
0.050 mi.
262 ft. **Site 14 of 14 in cluster B**

Relative:
Higher

Actual:
26 ft.

SWEEPS UST:

Status:	Active
Comp Number:	23049
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-023049-000001

BAE SYSTEMS (MSD) (Continued) **S104750101**

Tank Status: A
Capacity: 675
Active Date: Not reported
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: 1

SAN DIEGO CO. HMMD:
Facility Id: 123049
Business Type: 6HK71
EPA Id Number: CAR000165183
APN: 538-770-08-00
Last HMMD Inspection: 07/09/2012
Permit Status: OPEN
Permit Expiration: 05/31/2013
Facility Owner: BAE SYSTEMS
Facility Address: P O BOX 13308
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92170-3308
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Y
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:
UST Name: UNDERGROUND TANK T001
Last Update: 2012-11-02 14:17:38
Permit Number: 123049
Tank Type: SINGLE WALL
Additional Id: AT5553
Capacity Gallons: 675
UST Contents: Not reported
Other Content Info: TANK CONNECTED TO CLARIFIER
Reg Status: REMOVED
Remove Close Date: 2012-09-05 00:00:00
Year Installed: 1988-09-12 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION

Active Permits:
Facility Id: 123049
Update Date: 11/02/2012
Case Number: 111-76-2
Name: 2-BUTOXYETHANOL
Other Information: SIMPLE GREEN
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

BAE SYSTEMS (MSD) (Continued) **S104750101**

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	64873-34-6
Name:	DIESEL FUEL #2
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information:	ERM SANDBLAST MEDIA/KLEEN INDUSTIRAL SERVICES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 791 LIQUIDS WITH PH <OR= 2
Other Information:	HYDRO CHLORIC ACID
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	7727-37-9
Name:	NITROGEN (LIQUID AND GAS)
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	Not reported
Name:	NM-50 CHEMICAL CLEANER AND DEGREASER
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN- LIQUID
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	Not reported

BAE SYSTEMS (MSD) (Continued) **S104750101**

Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 792 LIQUIDS W/PH <OR= 2 W/METALS
Other Information: SODIUM HYDROXIDE CLEANING TANK
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: 2190 TEP LUBE OIL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 7440-37-1
Name: ARGON
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: GREASE, VARIOUS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: PAINT, EPOXY
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE/ COOLANT
Material Waste: Waste

BAE SYSTEMS (MSD) (Continued) **S104750101**

Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: AEROSOLS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 76-14-2
Name: DICHLOROTETRAFLUORETHANE
Other Information: REFRIGERANT
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 8002-09-5
Name: OILS; LUBRICATING
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 5989-27-5
Name: D-LIMONENE
Other Information: BIO T MAX
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 7440-37-1
Name: LIQUID ARGON
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

BAE SYSTEMS (MSD) (Continued) **S104750101**

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	OILY ABSORBENT/ RAGS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MIL-P-2441/20 F-150
Other Information:	EPOXY COATING
Material Waste:	Material
Hazardous Categories 1:	REACTIVE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 461 PAINT SLUDGE
Other Information:	DEBRIS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	07/09/2012
Violation Code:	6HV0304
Violation:	WASTE DETERMINATION NOT MADE
Violation Citation:	Generator of a waste has not determined if that waste is a hazardous waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity:	ACTIVE

Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	01/31/2007
Violation Code:	6HV1018
Violation:	INVENTORY INCOMPLETE/NOT AMENDED
Violation Citation:	Inventory not amended for 100% increase of hazardous material onsite or inventory is incomplete. 25509, 25510
Activity:	ACTIVE

Facility Id:	123049
Update Date:	11/02/2012

BAE SYSTEMS (MSD) (Continued) **S104750101**

Inspection Date:	05/28/2004
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	01/31/2007
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	08/15/2008
Violation Code:	6HV0222
Violation:	DID NOT PROPERLY LABEL ERM
Violation Citation:	Failed to properly label ERM. 25143.9(a)
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	07/09/2012
Violation Code:	6HV3324
Violation:	UNUSED TANK NOT PROPERLY CLOSED
Violation Citation:	Unused tank not properly closed. Permanent closure requirements not met. 25298, 2672
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	08/08/2005
Violation Code:	6HV0303
Violation:	WASTE TRANSPORT W/O MANIFEST
Violation Citation:	Hazardous waste generator has transported a hazardous waste off-site without preparing a manifest prior to transport. 66262.20(a), 25160.2(b)9
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	08/08/2005
Violation Code:	6HV0216
Violation:	HAZMATS WITHOUT PROPER LABELS
Violation Citation:	Hazardous materials have not been adequately labeled within 10 days & are now declared hazardous waste. HSC 25124(b)(3)(A) & 66262.34(f)
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	07/09/2012

BAE SYSTEMS (MSD) (Continued) **S104750101**

Violation Code: 6HV3103
Violation: NO UST PLAN CHECK PERMIT OBTAINED
Violation Citation: UST repair/modify/closure permit not obtained .68.1004, 68.1005, 68.1009.5
Activity: ACTIVE

Facility Id: 123049
Business Type: 6HK71
EPA Id Number: CAR000165183
APN: 538-770-08-00
Last HMMD Inspection: 07/09/2012
Permit Status: OPEN
Permit Expiration: 05/31/2013
Facility Owner: BAE SYSTEMS
Facility Address: P O BOX 13308
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92170-3308
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:
UST Name: UNDERGROUND TANK T001
Last Update: 2012-11-02 14:17:38
Permit Number: 123049
Tank Type: SINGLE WALL
Additional Id: AT5553
Capacity Gallons: 675
UST Contents: Not reported
Other Content Info: TANK CONNECTED TO CLARIFIER
Reg Status: REMOVED
Remove Close Date: 2012-09-05 00:00:00
Year Installed: 1988-09-12 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION

Active Permits:
Facility Id: 123049
Update Date: 11/02/2012
Case Number: 111-76-2
Name: 2-BUTOXYETHANOL
Other Information: SIMPLE GREEN
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012

BAE SYSTEMS (MSD) (Continued) **S104750101**

Case Number: 64873-34-6
Name: DIESEL FUEL #2
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information: ERM SANDBLAST MEDIA/KLEEN INDUSTIRAL SERVICES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 791 LIQUIDS WITH PH <OR= 2
Other Information: HYDRO CHLORIC ACID
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN (LIQUID AND GAS)
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: NM-50 CHEMICAL CLEANER AND DEGREASER
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN- LIQUID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: Not reported

BAE SYSTEMS (MSD) (Continued) **S104750101**

Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 792 LIQUIDS W/PH <OR= 2 W/METALS
Other Information: SODIUM HYDROXIDE CLEANING TANK
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: 2190 TEP LUBE OIL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: 7440-37-1
Name: ARGON
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: GREASE, VARIOUS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: PAINT, EPOXY
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: ANTIFREEZE/ COOLANT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

BAE SYSTEMS (MSD) (Continued) **S104750101**

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	AEROSOLS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	76-14-2
Name:	DICHLOROTETRAFLUORETHANE
Other Information:	REFRIGERANT
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	8002-09-5
Name:	OILS; LUBRICATING
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	5989-27-5
Name:	D-LIMONENE
Other Information:	BIO T MAX
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	7440-37-1
Name:	LIQUID ARGON
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	ACUTE

Facility Id:	123049
Update Date:	11/02/2012
Case Number:	7782-44-7

BAE SYSTEMS (MSD) (Continued) **S104750101**

Name: OXYGEN GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: OILY ABSORBENT/ RAGS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: MIL-P-2441/20 F-150
Other Information: EPOXY COATING
Material Waste: Material
Hazardous Categories 1: REACTIVE
Hazardous Categories 2: Not reported

Facility Id: 123049
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 461 PAINT SLUDGE
Other Information: DEBRIS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Facility Id: 123049
Update Date: 11/02/2012
Inspection Date: 07/09/2012
Violation Code: 6HV0304
Violation: WASTE DETERMINATION NOT MADE
Violation Citation: Generator of a waste has not determined if that waste is a hazardous waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity: ACTIVE

Facility Id: 123049
Update Date: 11/02/2012
Inspection Date: 01/31/2007
Violation Code: 6HV1018
Violation: INVENTORY INCOMPLETE/NOT AMENDED
Violation Citation: Inventory not amended for 100% increase of hazardous material onsite or inventory is incomplete. 25509, 25510
Activity: ACTIVE

Facility Id: 123049
Update Date: 11/02/2012
Inspection Date: 05/28/2004
Violation Code: 6HV0135
Violation: MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT

BAE SYSTEMS (MSD) (Continued) **S104750101**

Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	01/31/2007
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	08/15/2008
Violation Code:	6HV0222
Violation:	DID NOT PROPERLY LABEL ERM
Violation Citation:	Failed to properly label ERM. 25143.9(a)
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	07/09/2012
Violation Code:	6HV3324
Violation:	UNUSED TANK NOT PROPERLY CLOSED
Violation Citation:	Unused tank not properly closed. Permanent closure requirements not met. 25298, 2672
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	08/08/2005
Violation Code:	6HV0303
Violation:	WASTE TRANSPORT W/O MANIFEST
Violation Citation:	Hazardous waste generator has transported a hazardous waste off-site without preparing a manifest prior to transport. 66262.20(a), 25160.2(b)9
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	08/08/2005
Violation Code:	6HV0216
Violation:	HAZMATS WITHOUT PROPER LABELS
Violation Citation:	Hazardous materials have not been adequately labeled within 10 days & are now declared hazardous waste. HSC 25124(b)(3)(A) & 66262.34(f)
Activity:	ACTIVE
Facility Id:	123049
Update Date:	11/02/2012
Inspection Date:	07/09/2012
Violation Code:	6HV3103
Violation:	NO UST PLAN CHECK PERMIT OBTAINED
Violation Citation:	UST repair/modify/closure permit not obtained .68.1004, 68.1005,

BAE SYSTEMS (MSD) (Continued) **S104750101**

68.1009.5
Activity: ACTIVE

C32 **SILVERGATE POWER PLANT** **CA HIST CORTESE** **S102437552**
ENE **1348 SAMPSON ST** **CA LUST** **N/A**
< 1/8 **SAN DIEGO, CA 92112** **CA SLIC**
0.080 mi. **CA SWEEPS UST**
423 ft. **Site 1 of 4 in cluster C** **CA LDS**
CA San Diego Co. HMMD
Relative: **CA SAN DIEGO CO. SAM**
Higher

Actual: HIST CORTESE:
28 ft.

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT437

LUST:

Region:	STATE
Global Id:	T06019761425
Latitude:	32.69414
Longitude:	-117.143068
Case Type:	LUST Cleanup Site
Status:	Open - Site Assessment
Status Date:	07/24/2006
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Case Worker:	SM
Local Agency:	Not reported
RB Case Number:	Not reported
LOC Case Number:	Not reported
File Location:	Local Agency
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Gasoline
Site History:	Three 220,000-gallon concrete UST was closed in place and soil samples were collected beneath the tanks in 2006. Further assessment is needed before the case is considered for closure. No work has been implemented in spite of DEH phonecalls and Past Due notices.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T06019761425
Contact Type:	Regional Board Caseworker
Contact Name:	SEAN MCCLAIN
Organization Name:	SAN DIEGO RWQCB (REGION 9)
Address:	2375 NORTHSIDE DRIVE, SUITE 100
City:	SAN DIEGO
Email:	smcclain@waterboards.ca.gov
Phone Number:	6195213374

Status History:

Global Id:	T06019761425
Status:	Open - Site Assessment
Status Date:	07/24/2006

Global Id: T06019761425

SILVERGATE POWER PLANT (Continued) **S102437552**

Status: Open - Case Begin Date
Status Date: 07/24/2006

Regulatory Activities:
Global Id: T06019761425
Action Type: ENFORCEMENT
Date: 07/24/2006
Action: Notice of Responsibility

Global Id: T06019761425
Action Type: ENFORCEMENT
Date: 05/10/2012
Action: Notice to Comply

Global Id: T06019761425
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T06019761425
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T06019761425
Action Type: ENFORCEMENT
Date: 07/28/2009
Action: Letter - Notice

Global Id: T06019761425
Action Type: ENFORCEMENT
Date: 12/05/2013
Action: Referral to Regional Board

Global Id: T06019761425
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T06019761425
Action Type: RESPONSE
Date: 07/11/2012
Action: Remedial Progress Report - Regulator Responded

Global Id: T06019761425
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T06019761425
Action Type: RESPONSE
Date: 07/11/2012
Action: Remedial Progress Report

Region: STATE
Global Id: T0607302743

SILVERGATE POWER PLANT (Continued) **S102437552**

Latitude:	32.6940065
Longitude:	-117.1432368
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/04/1988
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT437
LOC Case Number:	H13942-001
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607302743
Status:	Completed - Case Closed
Status Date:	02/04/1988
Global Id:	T0607302743
Status:	Open - Case Begin Date
Status Date:	09/29/1986

Regulatory Activities:

Global Id:	T0607302743
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607302743
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607302743
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT437
Local Case:	H13942-001
Substance:	Diesel
Qty Leaked:	Not reported
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	Remove Contents
Source:	Piping
Cause:	Unknown
Lead Agency:	Local Agency

SILVERGATE POWER PLANT (Continued) **S102437552**

Case Type:	Soil only
Date Found:	09/29/1986
Date Stopped:	/ /
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	04/01/1987
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	7/31/87
Began Monitor:	Not reported
Release Date:	10/03/1986
Enforce Date:	Not reported
Closed Date:	2/12/88
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	19FT
Beneficial Use:	Not reported
NPDES Number:	Not reported
Priority:	Low priority. Priority ranking can change over time.
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	11/30/2006
Global Id:	SLT19730585
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H13942-003
Latitude:	32.69414
Longitude:	-117.143068
Case Type:	Cleanup Program Site
Case Worker:	NS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:

Status:	Active
Comp Number:	13942
Number:	9
Board Of Equalization:	44-016357
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported

SILVERGATE POWER PLANT (Continued) **S102437552**

Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 13942
Number: Not reported
Board Of Equalization: 44-016357
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013942-000001
Tank Status: Not reported
Capacity: 224000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: 5

Status: Not reported
Comp Number: 13942
Number: Not reported
Board Of Equalization: 44-016357
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013942-000002
Tank Status: Not reported
Capacity: 224000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 13942
Number: Not reported
Board Of Equalization: 44-016357
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-013942-000003
Tank Status: Not reported
Capacity: 224000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: Not reported

SILVERGATE POWER PLANT (Continued) **S102437552**

Status:	Not reported
Comp Number:	13942
Number:	Not reported
Board Of Equalization:	44-016357
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-013942-000004
Tank Status:	Not reported
Capacity:	114000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	13942
Number:	Not reported
Board Of Equalization:	44-016357
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-013942-000005
Tank Status:	Not reported
Capacity:	38000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

LDS:

Global Id:	SL0607312697
Latitude:	32.69453
Longitude:	-117.1429
Case Type:	Land Disposal Site
Status:	Open - Site Assessment
Status Date:	04/14/2006
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Caseworker:	JRO
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9 000552N05
LOC Case Number:	H13942-002
File Location:	Regional Board
Potential Media Affect:	Soil
EDR Link ID:	SL0607312697
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Applied for coverage under conditional waiver of WDRs/ ROWD for temporary waste piles (under Basin Plan waiver policy).

Click here to access the California GeoTracker records for this facility:

SILVERGATE POWER PLANT (Continued) **S102437552**

SAN DIEGO CO. HMMD:

Facility Id:	210687
Business Type:	6HK52
EPA Id Number:	Not reported
APN:	538-700-02-00
Last HMMD Inspection:	11/14/2011
Permit Status:	OPEN
Permit Expiration:	07/31/2013
Facility Owner:	SAN DIEGO CAS & ELECTRIC
Facility Address:	8315 CENTURY PARK, CP21L
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92123
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Active Permits:

Facility Id:	210687
Update Date:	11/02/2012
Case Number:	8042-47-5
Name:	DIALA OIL AX
Other Information:	DIELECTRIC OIL (MINERAL OIL)
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	210687
Update Date:	11/02/2012
Case Number:	7664-93-9
Name:	HYDROGEN SULFURIC (SULFURIC ACID)
Other Information:	ELECTROLYTE, BATTERY
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	113942
Business Type:	6HK52
EPA Id Number:	CAT000618934
APN:	538-700-02-00
Last HMMD Inspection:	11/08/2007
Permit Status:	INAC
Permit Expiration:	08/31/2009
Facility Owner:	SAN DIEGO GAS & ELECTRIC
Facility Address:	8315 CENTURY PARK CT, CP21L
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92123
UST Owner:	SAN DIEGO GAS & ELECTRIC
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Y
Subject To APSA:	Not reported

SILVERGATE POWER PLANT (Continued) **S102437552**

Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 113942 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	113942
Tank Type:	SINGLE WALL WITH EXTERIOR MEMB
Additional Id:	1501
Capacity Gallons:	224000
UST Contents:	Not reported
Other Content Info:	OTHER - SPECIFY
Reg Status:	CLOSED
Remove Close Date:	1998-12-23 00:00:00
Year Installed:	1941-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	99
UST Monitor Method:	OTHER - BLIND REMARK REQUIRED

UST Name:	UNDERGROUND TANK 113942 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	113942
Tank Type:	SINGLE WALL WITH EXTERIOR MEMB
Additional Id:	1502
Capacity Gallons:	224000
UST Contents:	Not reported
Other Content Info:	OTHER - SPECIFY
Reg Status:	CLOSED
Remove Close Date:	1998-12-23 00:00:00
Year Installed:	1941-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	99
UST Monitor Method:	OTHER - BLIND REMARK REQUIRED

UST Name:	UNDERGROUND TANK 113942 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	113942
Tank Type:	SINGLE WALL WITH EXTERIOR MEMB
Additional Id:	1503
Capacity Gallons:	224000
UST Contents:	Not reported
Other Content Info:	OTHER - SPECIFY
Reg Status:	CLOSED
Remove Close Date:	1998-12-23 00:00:00
Year Installed:	1941-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	99
UST Monitor Method:	OTHER - BLIND REMARK REQUIRED

UST Name:	UNDERGROUND TANK 113942 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	113942
Tank Type:	UNKNOWN
Additional Id:	1504

SILVERGATE POWER PLANT (Continued) **S102437552**

Capacity Gallons:	114000
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1947-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 113942 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	113942
Tank Type:	UNKNOWN
Additional Id:	1505
Capacity Gallons:	38000
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1945-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Violations Inactive Permits:

Facility Id:	113942
Update Date:	11/02/2012
Inspection Date:	01/12/2006
Violation Code:	6HV1009
Violation:	HMBP: INADEQUATE SITE MAP
Violation Citation:	Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity:	Inactive Permit

Facility Id:	113942
Business Type:	6HK52
EPA Id Number:	CAT000618934
APN:	538-700-02-00
Last HMMD Inspection:	11/08/2007
Permit Status:	INAC
Permit Expiration:	08/31/2009
Facility Owner:	SAN DIEGO GAS & ELECTRIC
Facility Address:	8315 CENTURY PARK CT, CP21L
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92123
UST Owner:	SAN DIEGO GAS & ELECTRIC
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported

SILVERGATE POWER PLANT (Continued) **S102437552**

Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:

UST Name: UNDERGROUND TANK 113942 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 113942
Tank Type: SINGLE WALL WITH EXTERIOR MEMB
Additional Id: 1501
Capacity Gallons: 224000
UST Contents: Not reported
Other Content Info: OTHER - SPECIFY
Reg Status: CLOSED
Remove Close Date: 1998-12-23 00:00:00
Year Installed: 1941-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 99
UST Monitor Method: OTHER - BLIND REMARK REQUIRED

UST Name: UNDERGROUND TANK 113942 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 113942
Tank Type: SINGLE WALL WITH EXTERIOR MEMB
Additional Id: 1502
Capacity Gallons: 224000
UST Contents: Not reported
Other Content Info: OTHER - SPECIFY
Reg Status: CLOSED
Remove Close Date: 1998-12-23 00:00:00
Year Installed: 1941-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 99
UST Monitor Method: OTHER - BLIND REMARK REQUIRED

UST Name: UNDERGROUND TANK 113942 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 113942
Tank Type: SINGLE WALL WITH EXTERIOR MEMB
Additional Id: 1503
Capacity Gallons: 224000
UST Contents: Not reported
Other Content Info: OTHER - SPECIFY
Reg Status: CLOSED
Remove Close Date: 1998-12-23 00:00:00
Year Installed: 1941-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 99
UST Monitor Method: OTHER - BLIND REMARK REQUIRED

UST Name: UNDERGROUND TANK 113942 T004
Last Update: 2012-11-02 14:17:38
Permit Number: 113942
Tank Type: UNKNOWN
Additional Id: 1504

SILVERGATE POWER PLANT (Continued) **S102437552**

Capacity Gallons: 114000
UST Contents: Not reported
Other Content Info: SEE FILE FOR CONTENTS
Reg Status: REMOVED
Remove Close Date: 1986-11-08 00:00:00
Year Installed: 1947-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 113942 T005
Last Update: 2012-11-02 14:17:38
Permit Number: 113942
Tank Type: UNKNOWN
Additional Id: 1505
Capacity Gallons: 38000
UST Contents: Not reported
Other Content Info: SEE FILE FOR CONTENTS
Reg Status: REMOVED
Remove Close Date: 1986-11-08 00:00:00
Year Installed: 1945-01-01 00:00:00
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Violations Inactive Permits:
Facility Id: 113942
Update Date: 11/02/2012
Inspection Date: 01/12/2006
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: Inactive Permit

SAN DIEGO CO. SAM:
Case Number: H13942-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 2/4/1988
Date Began: 9/29/1986

Case Number: H13942-002
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Soils Only
Facility Status: Preliminary Assessment
Date: 7/24/2006

SILVERGATE POWER PLANT (Continued) **S102437552**

Date Began: Not reported

Case Number: H13942-003
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Preliminary Assessment
Date: 11/20/2006
Date Began: 11/30/2006

C33 **SILVER GATE POWER PLANT** **CA HIST UST** **U001572995**
ENE **1348 SAMPSON ST** **N/A**
< 1/8 **SAN DIEGO, CA 92113**
0.080 mi.
423 ft. **Site 2 of 4 in cluster C**

Relative:
Higher

Actual:
28 ft.

HIST UST:
Region: STATE
Facility ID: 00000063684
Facility Type: Other
Other Type: UTILITY
Total Tanks: 0005
Contact Name: ERTLE F. OXENDINE
Telephone: 6196962000
Owner Name: SAN DIEGO GAS & ELECTRIC
Owner Address: 101 ASH STREET
Owner City,St,Zip: SAN DIEGO, CA 92101

Tank Num: 001
Container Num: 1501
Year Installed: 1941
Tank Capacity: 00224000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 12 inches
Leak Detection: Groundwater Monitoring Well

Tank Num: 002
Container Num: 1502
Year Installed: 1941
Tank Capacity: 00224000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 12 inches
Leak Detection: Groundwater Monitoring Well

Tank Num: 003
Container Num: 1503
Year Installed: 1941
Tank Capacity: 00224000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 12 inches
Leak Detection: Groundwater Monitoring Well

Tank Num: 004
Container Num: 1504
Year Installed: 1947

SILVER GATE POWER PLANT (Continued) **U001572995**

Tank Capacity: 00114000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 10 inches
Leak Detection: None

Tank Num: 005
Container Num: 1505
Year Installed: 1945
Tank Capacity: 00038000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: 10 inches
Leak Detection: None

C34 **SAN DIEGO GAS & ELEC SILVERGATE POW PLT** **RCRA-LQG 1000110791**
ENE **1348 SAMPSON STREET** **FINDS CAT000618934**
< 1/8 **SAN DIEGO, CA 92113**
0.080 mi.
423 ft. **Site 3 of 4 in cluster C**

Relative:
Higher

Actual:
28 ft.

RCRA-LQG:
Date form received by agency: 02/21/2008
Facility name: SAN DIEGO GAS AND ELECTRIC- SILVERGATE
Facility address: 1348 SAMPSON STREET
SAN DIEGO, CA 92113
EPA ID: CAT000618934
Mailing address: 6875 CONSOLIDATED WAY
SD 1373
SAN DIEGO, CA 92121
Contact: WILLIS G BRULL
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (858) 547-3069
Contact email: JBRULL@SEMPRAUTILITIES
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: SAN DIEGO GAS AND ELECTRIC
Owner/operator address: Not reported
Not reported
Owner/operator country: US

SAN DIEGO GAS & ELEC SILVERGATE POW PLT (Continued) **1000110791**

Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1943
Owner/Op end date: Not reported

Owner/operator name: SAN DIEGO GAS AND ELECTRIC
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1943
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/22/2006
Site name: SAN DIEGO GAS & ELECTRIC - SILVERGATE
Classification: Small Quantity Generator

Date form received by agency: 03/22/2006
Site name: SAN DIEGO GAS & ELECTRIC - SILVERGATE
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: SAN DIEGO GAS & ELEC SILVERGATE POW PLT
Classification: Small Quantity Generator

Date form received by agency: 04/09/1990
Site name: SAN DIEGO GAS & ELECTRIC CO. SILVER GATE
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: SAN DIEGO GAS & ELEC SILVERGATE POW PLT
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D004

SAN DIEGO GAS & ELEC SILVERGATE POW PLT (Continued) **1000110791**

Waste name: ARSENIC

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 01/31/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/21/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/15/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

FINDS:

Registry ID: 110009555052

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

CAMDBS (Clean Air Markets Division Business System) is a national information system that supports the implementation of market-based air pollution control programs administered by the Clean Air Markets Division, within the Office of Air and Radiation. These programs include the Acid Rain Program, established by Title IV of the Clean Air Act Amendments of 1990, and regional programs designed reduce the transport of ozone. These emissions trading programs allows regulated facilities (primarily electric utilities) to adopt the most cost-effective strategies to reduce emissions at their units. Units that reduce their emissions below the number of allowances they hold -- each allowance is equivalent to one ton of sulfur dioxide or nitrogen oxides -- may trade allowances with other units in their system, sell them to other utilities on the open market or through EPA auctions, or bank them to cover emissions in future years. CAMDBS functions include registering responsible officials, establishing allowance accounts, reporting hourly emissions data, and transferring allowances between accounts.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

SAN DIEGO GAS & ELEC SILVERGATE POW PLT (Continued) **1000110791**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

ELECTRIC GENERATOR

HAZARDOUS WASTE BIENNIAL REPORTER

C35 **PROPULSION CONTROLS ENGINEERING *D** **RCRA NonGen / NLR** **1000350137**
NE **1304 SAMPSON ST** **CAD073349607**
< 1/8 **SAN DIEGO, CA 92113**
0.124 mi.
657 ft. **Site 4 of 4 in cluster C**

Relative:
Higher

Actual:
35 ft.

RCRA NonGen / NLR:

Date form received by agency:	06/26/2007
Facility name:	PROPULSION CONTROLS ENGINEERING *D
Facility address:	1304 SAMPSON ST SAN DIEGO, CA 92113
EPA ID:	CAD073349607
Mailing address:	PO BOX 13606 SAN DIEGO, CA 92170 3606
Contact:	KATY SANFORD
Contact address:	PO BOX 13606 SAN DIEGO, CA 92170 3606
Contact country:	US
Contact telephone:	619-235-0961
Telephone ext.:	304
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No

PROPULSION CONTROLS ENGINEERING *D (Continued) **1000350137**

Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: PROPULSION CONTROLS ENGINEERING
Classification: Small Quantity Generator

Date form received by agency: 06/24/1986
Site name: PROPULSION CONTROLS ENGINEERING
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 06/17/1993
Date achieved compliance: 06/17/1998
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 04/17/1991
Date achieved compliance: 06/17/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/17/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/17/1998
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 04/17/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

PROPULSION CONTROLS ENGINEERING *D (Continued) **1000350137**

Area of violation: Generators - General
Date achieved compliance: 06/17/1993
Evaluation lead agency: State Contractor/Grantee

D36 **CHEVRON PIPELINE RUPTURE** **CA SLIC** **S106487245**
ESE **BELT STREET** **N/A**
1/8-1/4 **SAN DIEGO, CA 92123**
0.150 mi.
793 ft. **Site 1 of 3 in cluster D**

Relative: **Higher**

Actual: **24 ft.**

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/21/2003
Global Id:	SL0607379122
Lead Agency:	SAN DIEGO RWQCB (REGION 9)
Lead Agency Case Number:	Not reported
Latitude:	32.69264
Longitude:	-117.14203
Case Type:	Cleanup Program Site
Case Worker:	BSP
Local Agency:	Not reported
RB Case Number:	SLT90053
File Location:	Regional Board
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	During drilling of a soil boring for the City of San Diego, AMEC Earth and Environmental ruptured an 8-inch underground pipeline that contained unleaded gasoline. The rupture resulted in the immediate discharge of approximately 3,000 gallons of gasoline to the ground and to soil and groundwater.

Click here to access the California GeoTracker records for this facility:

D37 **CHEVRON HARBOR TERMINAL-LOWER TANK FARM** **CA CHMIRS** **S100219208**
ESE **2295 BELT STREET** **CA ENVIROSTOR** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.152 mi.
804 ft. **Site 2 of 3 in cluster D**

Relative: **Higher**

Actual: **23 ft.**

CHMIRS:

OES Incident Number:	9000121
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	11-FEB-90
Date Completed:	**11-FEB-90**
Property Use:	767
Agency Id Number:	37140
Agency Incident Number:	040828
Time Notified:	850
Time Completed:	1320
Surrounding Area:	800
Estimated Temperature:	75
Property Management:	P
More Than Two Substances Involved?:	N
Resp Agncy Personel # Of Decontaminated:	0

CHEVRON HARBOR TERMINAL-LOWER TANK FARM (Continued) **S100219208**

Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Others Number Of Decontaminated:	0
Others Number Of Injuries:	0
Others Number Of Fatalities:	0
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	CHEVRON
Reporting Officer Name/ID:	SAMUEL E. CAMPBELL
Report Date:	11-FEB-90
Comments:	Not reported
Facility Telephone:	619 236-7773
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	Not reported
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	29-MAY-90
Substance:	Not reported
Quantity Released:	Not reported
BBLS:	Not reported
Cups:	Not reported
CUFT:	Not reported
Gallons:	Not reported
Grams:	Not reported
Pounds:	Not reported
Liters:	Not reported
Ounces:	Not reported
Pints:	Not reported
Quarts:	Not reported
Sheen:	Not reported
Tons:	Not reported
Unknown:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
Description:	Not reported

ENVIROSTOR:

Facility ID:	37290007
Status:	Refer: 1248 Local Agency
Status Date:	09/13/2001

CHEVRON HARBOR TERMINAL-LOWER TANK FARM (Continued) **S100219208**

Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	80
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	32.69214
Longitude:	-117.1427
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	37290007
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

D38 **FISHERMAN S DOCK ARCO MARINE TERMINAL** **EDR US Hist Auto Stat** **1008997983**
ESE **1500 SICARD ST** **N/A**
1/8-1/4 **SAN DIEGO, CA**
0.160 mi.
844 ft. **Site 3 of 3 in cluster D**

Relative:
Higher

Actual:
23 ft.

EDR Historical Auto Stations:

Name:	FISHERMAN S DOCK ARCO MARINE TERMINAL
Year:	1975
Type:	GASOLINE STATIONS

E39 **CP KELCO** **CA San Diego Co. HMMD** **S105113177**
North **2025 HARBOR DR** **CA SAN DIEGO CO. SAM** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.169 mi.
893 ft. **Site 1 of 4 in cluster E**

Relative:
Higher

Actual:
32 ft.

SAN DIEGO CO. HMMD:

Facility Id:	138979
Business Type:	6HK76
EPA Id Number:	CAR000084533
APN:	538-700-07-00
Last HMMD Inspection:	03/18/2008
Permit Status:	OPEN
Permit Expiration:	07/31/2013
Facility Owner:	CP KELCO
Facility Address:	2025 E HARBOR DR
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Active Permits:

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7783-20-2
Name:	AMMONIUM SULFATE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEMTREAT CL-1446
Other Information:	CORROSION INHIBITOR
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	FILTERAID 700, TECH
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	NALCO TRI-ACT 1820
Other Information:	WATER TREATMENT CHEMICALS

CP KELCO (Continued) **S105113177**

Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	9005-65-6
Name:	POLYSORBATE 80
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7664-93-9
Name:	SULFURIC ACID, 98%
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	EXTREMELY HAZARDOUS
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	TERGITOLIL (TM) L-81
Other Information:	ANTIFOAM
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 122 ALKALINE SOL'N W/OUT METALS-
Other Information:	WASTE SODIUM HYPOCHLORITE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	FIBER & IPA
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 551 LABORATORY WASTE CHEMICALS
Other Information:	WASTE ORGANIC LIQUIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

CP KELCO (Continued) **S105113177**

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 64-19-7
Name: ACETIC ACID GLACIAL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: ALPHA-STEP MC-48
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 77-92-9
Name: CITRIC ACID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: NALCO 2833
Other Information: CORROSION/ SCALE INHIBITOR
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: QUORUM CLEAR V
Other Information: SANITIZER
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: SODIUM ACETATE ANHYDROUS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported

CP KELCO (Continued) **S105113177**

Name:	WASTE 122 ALKALINE SOL'N W/OUT METALS
Other Information:	WASTE POTASSIUM HYDROXIDE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	NEUTRALIZED SULFURIC ACID
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information:	SODIUM HYPOCHLORITE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER).
Other Information:	DEMIN BEADS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 551 LABORATORY WASTE CHEMICALS
Other Information:	ETHANOL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	6484-52-2
Name:	AMMONIUM NITRATE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEMTREAT BL-1258
Other Information:	SULFITE OXYGEN SCAVENGER
Material Waste:	Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEMTREAT CL-1416
Other Information: COOLING TOWER CORROSION INHIBITOR, DISPERSANT
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEMTREAT CL-49
Other Information: COOLING TOWER MICROBIOCIDE
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 68476-34-6
Name: DIESEL FUEL NO 2
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: PROPRIET-AR-Y
Name: HODAG K60K
Other Information: ANTIFOAM
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: MAGNESIUM SULFATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 142-47-2
Name: MONODODIUM GLATAMATE
Other Information: MSG
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	NALCO 2563
Other Information:	ANTIFOAM
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	NALCO 8735
Other Information:	PH STABILIZER
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	PROTEX 6L, FOOD 580,000 DU/G
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	SANTOQUIN EMULSION #1
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7757-83-7
Name:	SODIUM SULFITE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7601-59-4
Name:	TRISODIUM PHOSPHATE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported

CP KELCO (Continued) **S105113177**

Name:	WASTE 171 METAL SLUDGE
Other Information:	SUMP SLUDGE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	WATER W/DIESEL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE*
Other Information:	SOIL W/ DIESEL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 261 POLYCHLORINATED BIPHENYLS
Other Information:	PCB BALLAST
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE-
Other Information:	WASTE ANTIFREEZE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	1336-21-6
Name:	AMMONIUM HYDROXIDE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	EXTREMELY HAZARDOUS
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	1305-62-0
Name:	CALCIUM HYDROXIDE
Other Information:	Not reported
Material Waste:	Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEMTREAT BL-1770
Other Information:	BOILER ANTI-SCALANT POLYMER/PHOSPHATE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	DOW ANTIFOAM 1520
Other Information:	ANTIFOAM
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	DREW PLUS ANTIFOAM
Other Information:	ANTIFOAM
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	GUAR GUM
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	MAKON 10
Other Information:	POLYETHYLENE GLYCOL MONO (NONYL PHENYL) ETHER
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	NINOL 30-LL
Other Information:	ALKANOLAMIDE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7767-82-6
Name:	SODIUM SULFATE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7722-88-5
Name:	TETRASODIUM PYROPHOSPHATE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	TRITON X-100
Other Information:	NONIONIC SURFACTANT
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 141 OFF-SPEC,AGED,SURPL INORGANICS'
Other Information:	SURPLUS CALGON LCS-59
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER) -
Other Information:	WASTE SULFURIC ACID & LIMESTONE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS'
Other Information:	SURPLUS CALCIUM NITRATE TETRAHYDRATE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported

CP KELCO (Continued) **S105113177**

Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE-
Other Information: SPENT NON-PCB CAPACITOR
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 110-63-4
Name: 1,4 - BUTANEDIOL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 10043-52-4
Name: CALCIUM CHLORIDE (ANYDROUS)
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 107-22-2
Name: GLYOXAL 40%
Other Information: ALIPHATIC ALDEHYDE
Material Waste: Material
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: IPA & WATER
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7778-77-0
Name: MAZU 4141
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7722-76-1
Name: MONOAMMONIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: ONDEO CL-50
Other Information: WATER TREATMENT CHEMICALS
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: LPG
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 6132-04-3
Name: SODIUM CITRATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: SODIUM LAURYL SULFATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 141 OFF-SPEC,AGED,SURPL INORGANICS'
Other Information: SURPLUS CALGON CL-361
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)-
Other Information:	EQ TANK SLUDGE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)- PAINT CHIPS
Other Information:	Not reported
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	25322-69-4
Name:	WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS'
Other Information:	SURPLUS PROPYLENE GLYCOL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE*
Other Information:	SURPLUS HYDROSEAL II PARTS CLEANER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 791 LIQUIDS WITH PH <OR= 2
Other Information:	ACIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 791 LIQUIDS WITH PH <OR= 2'
Other Information:	WASTE SULFURIC ACID & SOLIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7446-20-0

CP KELCO (Continued) **S105113177**

Name: ZINC SULFATE, HEPTA
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: BIO-SOFT 101
Other Information: ALKYLBENZENESULFONIC ACID
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 68131-39-5
Name: BIO-SOFT N25-7
Other Information: ALCOHOLS (C12-15 LN. SATURATED) ETHOXYLATE
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 471-34-1
Name: CALCIUM CARBONATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7558794
Name: DISODIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 111-30-8
Name: GLUTERALDEHYDE (WAVECIDE-2% AND UCARCIDE-25%)
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 67-63-0
Name: ISOPROPANOL
Other Information: RUBBING ALCOHOL
Material Waste: Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7550-35-8
Name: LITHIUM BROMIDE 18 SOLUTION
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7778-77-0
Name: MONOPOTASSIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: ORBITAL ACID CLEANER #6
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: PETROLEUM OILS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7664-38-2
Name: PHOSPHORIC ACID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 9003-11-6
Name: PLURONIC L61
Other Information: ANTIFORM
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	1310-58-3
Name:	POTASSIUM HYDROXIDE
Other Information:	CAUSTIC SODA
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	10126-56-8
Name:	SODIUM HEXAMETAPHOSPHATE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7681-52-9
Name:	SODIUM HYPOCHLORITE
Other Information:	BLEACH
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7558-80-7
Name:	SODIUM PHOSPHATE MONOBASIC
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	TENASE L1200
Other Information:	BACTERIAL ALPHA-AMYLASE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	SUMP RESIDUE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported

CP KELCO (Continued) **S105113177**

Name:	WASTE 212 OXYGENATED SOLVENTS
Other Information:	METHANOL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 214 UNSPEC SOLVENT MIXTURE
Other Information:	PARTS WASHER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE.
Other Information:	FOOD GRADE GREASE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS
Other Information:	POLYETHYLENE GLYCOL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information:	ANTIFOAM
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information:	Not reported
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CALIBRATION GAS NO2 50 PPM, N2
Other Information:	Not reported
Material Waste:	Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEM TREAT BL-4123
Other Information: COOLING WATER TREATMENT
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEMTREAT BL-1555
Other Information: BOILER NEUTRALIZING AMINE
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7758-11-4
Name: DIPOTASSIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 64-17-5
Name: ETHANOL
Other Information: GRAIN ALCOHOL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: NEXGUARD 22350
Other Information: WATER TREATMENT CHEMICAL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN LIQUID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: CRYOGENIC
Hazardous Categories 2: ACUTE

CP KELCO (Continued) **S105113177**

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 9014-01-1
Name: OPTIMASE APL 440F6
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN LIQUID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CRYOGENIC

Facility Id: 138979
Update Date: 11/02/2012
Case Number: n/a
Name: PERLITE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: POTASSIUM CHLORIDE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 1310-73-2
Name: SODIUM HYDROXIDE
Other Information: CAUSTIC SODA
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 122 ALKALINE SOL'N W/OUT METALS'
Other Information: SURPLUS CHEM TREAT BL-100
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported

CP KELCO (Continued) **S105113177**

Name:	WASTE 141 OFF-SPEC,AGED,SURPL INORGANICS
Other Information:	SURPLUS ANTIBIOTICS & AMINO ACIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 141 OFF-SPEC,AGED,SURPL INORGANICS'
Other Information:	SURPLUS CHEMTREAT BL-1344
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER) /
Other Information:	SAND FILTER MEDIA
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	MOTOR OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information:	IPA AND WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE-
Other Information:	GLYOXAL & WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	OILY SOLIDS
Material Waste:	Waste

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7440-37-1
Name: ARGON GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: CARCINOGENS &/OR REPRODUCTIVE TOXINS
Other Information: BELOW STATE DISCLOSURE AMTS ARE/MAY BE ON SITE
Material Waste: Not reported
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEM TREAT BL-4815
Other Information: COOLING WATER TREATMENT
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 50-21-5
Name: LACTIC ACID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: PROPRIET-AR-Y
Name: MAZU DF 204
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7558-80-7
Name: MONOSODIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	1049-21-5
Name:	POTASSIUM PHOSPHATE, MONOBASIC
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7647-14-5
Name:	SODIUM CHLORIDE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7631-99-4
Name:	SODIUM NITRATE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	57-13-6
Name:	UREA
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 112 ACID SOL'N W/OUT METALS - R
Other Information:	NITRIC, HCL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 121 ALKALINE SOL'N WITH METALS
Other Information:	SODIUM MOLYBDATE & SODIUM NITRITE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported

CP KELCO (Continued) **S105113177**

Name: WASTE 122 ALKALINE SOL'N W/OUT METALS
Other Information: POTASSIUM HYDROXIDE WITH SOLIDS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 122 ALKALINE SOL'N W/OUT METALS'
Other Information: POTASSIUM HYDROXIDE CONTAMINATED SOLIDS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information: AEROSOL CANS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 513 EMPTY CONTNR(LESS THAN 30 GAL)'
Other Information: EMPTY COMPRESSED GAS CYLINDERS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: ZEP-DZ-7
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Violations Active Permits:
Facility Id: 138979
Update Date: 11/02/2012
Inspection Date: 10/02/2003
Violation Code: 6HV0201
Violation: WASTE CONTAINER NOT CLOSED

CP KELCO (Continued) **S105113177**

Violation Citation:	Hazardous waste containers are not kept closed while in storage. CCR 66265.173(a)
Activity:	ACTIVE
Facility Id:	138979
Update Date:	11/02/2012
Inspection Date:	10/02/2003
Violation Code:	6HV4209
Violation:	NO GENERATOR'S INFO ON RED BAGS/SHARPS
Violation Citation:	Red bags, sharps containers not labeled with generator's name, address, and phone number. 68.1205
Activity:	ACTIVE
Facility Id:	138979
Update Date:	11/02/2012
Inspection Date:	10/02/2003
Violation Code:	6HV4204
Violation:	WARNING SIGN NOT POSTED
Violation Citation:	MW designated accumulation area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
Activity:	ACTIVE
Facility Id:	138979
Update Date:	11/02/2012
Inspection Date:	10/02/2003
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	ACTIVE
Facility Id:	138979
Business Type:	6HK76
EPA Id Number:	CAR000084533
APN:	538-700-07-00
Last HMMD Inspection:	03/18/2008
Permit Status:	OPEN
Permit Expiration:	07/31/2013
Facility Owner:	CP KELCO
Facility Address:	2025 E HARBOR DR
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Active Permits:

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7783-20-2

CP KELCO (Continued) **S105113177**

Name: AMMONIUM SULFATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEMTREAT CL-1446
Other Information: CORROSION INHIBITOR
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: FILTERAID 700, TECH
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: NALCO TRI-ACT 1820
Other Information: WATER TREATMENT CHEMICALS
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 9005-65-6
Name: POLYSORBATE 80
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7664-93-9
Name: SULFURIC ACID, 98%
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: EXTREMELY HAZARDOUS

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: TERGITOLIL (TM) L-81
Other Information: ANTIFOAM
Material Waste: Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 122 ALKALINE SOL'N W/OUT METALS-
Other Information: WASTE SODIUM HYPOCHLORITE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: FIBER & IPA
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 551 LABORATORY WASTE CHEMICALS
Other Information: WASTE ORGANIC LIQUIDS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 64-19-7
Name: ACETIC ACID GLACIAL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: ALPHA-STEP MC-48
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 77-92-9
Name: CITRIC ACID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: NALCO 2833
Other Information: CORROSION/ SCALE INHIBITOR
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: QUORUM CLEAR V
Other Information: SANITIZER
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: SODIUM ACETATE ANHYDROUS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 122 ALKALINE SOL'N W/OUT METALS
Other Information: WASTE POTASSIUM HYDROXIDE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information: NEUTRALIZED SULFURIC ACID
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information: SODIUM HYPOCHLORITE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported

CP KELCO (Continued) **S105113177**

Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER).
Other Information:	DEMIN BEADS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 551 LABORATORY WASTE CHEMICALS
Other Information:	ETHANOL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	6484-52-2
Name:	AMMONIUM NITRATE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEMTREAT BL-1258
Other Information:	SULFITE OXYGEN SCAVENGER
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEMTREAT CL-1416
Other Information:	COOLING TOWER CORROSION INHIBITOR, DISPERSANT
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEMTREAT CL-49
Other Information:	COOLING TOWER MICROBIOCIDE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL NO 2
Other Information:	Not reported
Material Waste:	Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: PROPRIET-AR-Y
Name: HODAG K60K
Other Information: ANTIFOAM
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: MAGNESIUM SULFATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 142-47-2
Name: MONODODIUM GLATAMATE
Other Information: MSG
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: NALCO 2563
Other Information: ANTIFOAM
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: NALCO 8735
Other Information: PH STABILIZER
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: PROTEX 6L, FOOD 580,000 DU/G
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: SANTOQUIN EMULSION #1
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7757-83-7
Name: SODIUM SULFITE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7601-59-4
Name: TRISODIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 171 METAL SLUDGE
Other Information: SUMP SLUDGE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: WATER W/DIESEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE*
Other Information: SOIL W/ DIESEL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported

CP KELCO (Continued) **S105113177**

Name: WASTE 261 POLYCHLORINATED BIPHENYLS
Other Information: PCB BALLAST
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE-
Other Information: WASTE ANTIFREEZE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 1336-21-6
Name: AMMONIUM HYDROXIDE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: EXTREMELY HAZARDOUS

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 1305-62-0
Name: CALCIUM HYDROXIDE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: CHEMTREAT BL-1770
Other Information: BOILER ANTI-SCALANT POLYMER/PHOSPHATE
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: DOW ANTIFOAM 1520
Other Information: ANTIFOAM
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: DREW PLUS ANTIFOAM
Other Information: ANTIFOAM
Material Waste: Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: GUAR GUM
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: MAKON 10
Other Information: POLYETHYLENE GLYCOL MONO (NONYL PHENYL) ETHER
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: NINOL 30-LL
Other Information: ALKANOLAMIDE
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7767-82-6
Name: SODIUM SULFATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7722-88-5
Name: TETRASODIUM PYROPHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: TRITON X-100
Other Information: NONIONIC SURFACTANT
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 141 OFF-SPEC,AGED,SURPL INORGANICS'
Other Information:	SURPLUS CALGON LCS-59
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER) -
Other Information:	WASTE SULFURIC ACID & LIMESTONE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS'
Other Information:	SURPLUS CALCIUM NITRATE TETRAHYDRATE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE-
Other Information:	SPENT NON-PCB CAPACITOR
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	110-63-4
Name:	1,4 - BUTANEDIOL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	10043-52-4
Name:	CALCIUM CHLORIDE (ANYDROUS)
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	107-22-2

CP KELCO (Continued) **S105113177**

Name: GLYOXAL 40%
Other Information: ALIPHATIC ALDEHYDE
Material Waste: Material
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: IPA & WATER
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7778-77-0
Name: MAZU 4141
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7722-76-1
Name: MONOAMMONIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: ONDEO CL-50
Other Information: WATER TREATMENT CHEMICALS
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: LPG
Material Waste: Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 6132-04-3
Name: SODIUM CITRATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: SODIUM LAURYL SULFATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 141 OFF-SPEC,AGED,SURPL INORGANICS'
Other Information: SURPLUS CALGON CL-361
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)-
Other Information: EQ TANK SLUDGE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)- PAINT CHIPS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 25322-69-4
Name: WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS'
Other Information: SURPLUS PROPYLENE GLYCOL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE*
Other Information:	SURPLUS HYDROSEAL II PARTS CLEANER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 791 LIQUIDS WITH PH <OR= 2
Other Information:	ACIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 791 LIQUIDS WITH PH <OR= 2
Other Information:	WASTE SULFURIC ACID & SOLIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7446-20-0
Name:	ZINC SULFATE, HEPTA
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	BIO-SOFT 101
Other Information:	ALKYLBENZENESULFONIC ACID
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	68131-39-5
Name:	BIO-SOFT N25-7
Other Information:	ALCOHOLS (C12-15 LN. SATURATED) ETHOXYLATE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	471-34-1

CP KELCO (Continued) **S105113177**

Name: CALCIUM CARBONATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7558794
Name: DISODIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 111-30-8
Name: GLUTERALDEHYDE (WAVECIDE-2% AND UCARCIDE-25%)
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 67-63-0
Name: ISOPROPANOL
Other Information: RUBBING ALCOHOL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7550-35-8
Name: LITHIUM BROMIDE 18 SOLUTION
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7778-77-0
Name: MONOPOTASSIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: ORBITAL ACID CLEANER #6
Other Information: Not reported
Material Waste: Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: PETROLEUM OILS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7664-38-2
Name: PHOSPHORIC ACID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 9003-11-6
Name: PLURONIC L61
Other Information: ANTIFORM
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 1310-58-3
Name: POTASSIUM HYDROXIDE
Other Information: CAUSTIC SODA
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 10126-56-8
Name: SODIUM HEXAMETAPHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7681-52-9
Name: SODIUM HYPOCHLORITE
Other Information: BLEACH
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7558-80-7
Name:	SODIUM PHOSPHATE MONOBASIC
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	TENASE L1200
Other Information:	BACTERIAL ALPHA-AMYLASE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	SUMP RESIDUE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 212 OXYGENATED SOLVENTS
Other Information:	METHANOL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 214 UNSPEC SOLVENT MIXTURE
Other Information:	PARTS WASHER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE.
Other Information:	FOOD GRADE GREASE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported

CP KELCO (Continued) **S105113177**

Name:	WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS
Other Information:	POLYETHYLENE GLYCOL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information:	ANTIFOAM
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information:	Not reported
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CALIBRATION GAS NO2 50 PPM, N2
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	ACUTE
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEM TREAT BL-4123
Other Information:	COOLING WATER TREATMENT
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEMTREAT BL-1555
Other Information:	BOILER NEUTRALIZING AMINE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7758-11-4
Name:	DIPOTASSIUM PHOSPHATE
Other Information:	Not reported
Material Waste:	Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 64-17-5
Name: ETHANOL
Other Information: GRAIN ALCOHOL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: NEXGUARD 22350
Other Information: WATER TREATMENT CHEMICAL
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN LIQUID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: CRYOGENIC
Hazardous Categories 2: ACUTE

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 9014-01-1
Name: OPTIMASE APL 440F6
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN LIQUID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CRYOGENIC

Facility Id: 138979
Update Date: 11/02/2012
Case Number: n/a
Name: PERLITE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: POTASSIUM CHLORIDE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 1310-73-2
Name: SODIUM HYDROXIDE
Other Information: CAUSTIC SODA
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 122 ALKALINE SOL'N W/OUT METALS'
Other Information: SURPLUS CHEM TREAT BL-100
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 141 OFF-SPEC,AGED,SURPL INORGANICS
Other Information: SURPLUS ANTIBIOTICS & AMINO ACIDS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 141 OFF-SPEC,AGED,SURPL INORGANICS'
Other Information: SURPLUS CHEMTREAT BL-1344
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER) /
Other Information: SAND FILTER MEDIA
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported

CP KELCO (Continued) **S105113177**

Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	MOTOR OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information:	IPA AND WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE-
Other Information:	GLYOXAL & WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	OILY SOLIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	7440-37-1
Name:	ARGON GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	ACUTE
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CARCINOGENS &/OR REPRODUCTIVE TOXINS
Other Information:	BELOW STATE DISCLOSURE AMTS ARE/MAY BE ON SITE
Material Waste:	Not reported
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	CHEM TREAT BL-4815
Other Information:	COOLING WATER TREATMENT
Material Waste:	Material

CP KELCO (Continued) **S105113177**

Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 50-21-5
Name: LACTIC ACID
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: PROPRIET-AR-Y
Name: MAZU DF 204
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7558-80-7
Name: MONOSODIUM PHOSPHATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 1049-21-5
Name: POTASSIUM PHOSPHATE, MONOBASIC
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7647-14-5
Name: SODIUM CHLORIDE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: 7631-99-4
Name: SODIUM NITRATE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

CP KELCO (Continued) **S105113177**

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	57-13-6
Name:	UREA
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 112 ACID SOL'N W/OUT METALS - R
Other Information:	NITRIC, HCL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 121 ALKALINE SOL'N WITH METALS
Other Information:	SODIUM MOLYBDATE & SODIUM NITRITE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 122 ALKALINE SOL'N W/OUT METALS
Other Information:	POTASSIUM HYDROXIDE WITH SOLIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 122 ALKALINE SOL'N W/OUT METALS'
Other Information:	POTASSIUM HYDROXIDE CONTAMINATED SOLIDS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information:	AEROSOL CANS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	138979
Update Date:	11/02/2012
Case Number:	Not reported

CP KELCO (Continued) **S105113177**

Name: WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 513 EMPTY CONTNR(LESS THAN 30 GAL)'
Other Information: EMPTY COMPRESSED GAS CYLINDERS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 138979
Update Date: 11/02/2012
Case Number: Not reported
Name: ZEP-DZ-7
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Violations Active Permits:
Facility Id: 138979
Update Date: 11/02/2012
Inspection Date: 10/02/2003
Violation Code: 6HV0201
Violation: WASTE CONTAINER NOT CLOSED
Violation Citation: Hazardous waste containers are not kept closed while in storage. CCR 66265.173(a)
Activity: ACTIVE

Facility Id: 138979
Update Date: 11/02/2012
Inspection Date: 10/02/2003
Violation Code: 6HV4209
Violation: NO GENERATOR'S INFO ON RED BAGS/SHARPS
Violation Citation: Red bags, sharps containers not labeled with generator's name, address, and phone number. 68.1205
Activity: ACTIVE

Facility Id: 138979
Update Date: 11/02/2012
Inspection Date: 10/02/2003
Violation Code: 6HV4204
Violation: WARNING SIGN NOT POSTED
Violation Citation: MW designated accumulation area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
Activity: ACTIVE

Facility Id: 138979
Update Date: 11/02/2012
Inspection Date: 10/02/2003
Violation Code: 6HV0202

CP KELCO (Continued) **S105113177**

Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

SAN DIEGO CO. SAM:
Case Number: H38979-001
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 12/31/2001
Date Began: 3/19/2001

Case Number: H38979-002
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 7/1/2008
Date Began: 10/15/2001

Case Number: H38979-003
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 3/6/2008
Date Began: Not reported

E40 **KELCO** **CA NPDES** **S105658525**
North **2025 HARBOR DR** **CA SLIC** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113** **CA CHMIRS**
0.169 mi.
893 ft. **Site 2 of 4 in cluster E**

Relative:
Higher

Actual:
32 ft.

NPDES:
Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 9
Regulatory Measure Id: 218763
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 9 37I016160
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 10/24/2000
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: CP Kelco
Discharge Address: 2025 Harbor Dr
Discharge City: San Diego
Discharge State: California

KELCO (Continued) **S105658525**

Discharge Zip: 92113

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/31/2001
Global Id:	T0608121886
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H38979-001
Latitude:	32.696055
Longitude:	-117.144705
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	07/01/2008
Global Id:	T0608116327
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H38979-002
Latitude:	32.696055
Longitude:	-117.144705
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Alcohols
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/06/2008
Global Id:	SLT19724600
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H38979-003
Latitude:	32.696055
Longitude:	-117.144705
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

KELCO (Continued) **S105658525**

Click here to access the California GeoTracker records for this facility:

CHMIRS:

OES Incident Number:	99-5404	
OES notification:	12/23/1999	
OES Date:	Not reported	
OES Time:	Not reported	
Incident Date:	Not reported	
Date Completed:	**Not reported**	
Property Use:	Not reported	
Agency Id Number:	Not reported	
Agency Incident Number:	Not reported	
Time Notified:	Not reported	
Time Completed:	Not reported	
Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA/DOT/PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Comments:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	Yes	
Waterway:	San Diego Bay	
Spill Site:	Not reported	
Cleanup By:	Reporting Party	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Not reported	
Other:	Not reported	
Date/Time:	Not reported	
Year:	1999	
Agency:	Calco Biopolimers	
Incident Date:	12/23/199912:00:00 AM	
Admin Agency:	San Diego County Health Services Dept.	
Amount:	Not reported	
Contained:	Yes	
Site Type:	Industrial Plant	
E Date:	Not reported	
Substance:	Boiler Condesate	
Quantity Released:	Not reported	
BBLS:	0	
Cups:	0	

KELCO (Continued) **S105658525**

CUFT:	0
Gallons:	3
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Power failure

E41 **S D UNIFIED PORT DIST AT0192** **CA SWEEPS UST** **S104749741**
North **2025 BELT ST** **CA San Diego Co. HMMD** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.169 mi.
893 ft. **Site 3 of 4 in cluster E**

Relative:
Higher

Actual:
32 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	21194
Number:	Not reported
Board Of Equalization:	44-023475
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021194-000001
Tank Status:	Not reported
Capacity:	400
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	1

SAN DIEGO CO. HMMD:

Facility Id:	121194
Business Type:	6HK03
EPA Id Number:	Not reported
APN:	538-700-03-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	06/30/2002
Facility Owner:	S D UNIFIED PORT DIST
Facility Address:	2025 BELT ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2212
UST Owner:	S D UNIFIED PORT DIST
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported

S D UNIFIED PORT DIST AT0192 (Continued) **S104749741**

Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:
UST Name: UNDERGROUND TANK 121194 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 121194
Tank Type: SINGLE WALL
Additional Id: AT0192-1
Capacity Gallons: 400
UST Contents: LEADED
Other Content Info: LEADED
Reg Status: REMOVED
Remove Close Date: 1987-01-12 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

E42 **CP KELCO** **RCRA-LQG 1004676382**
North **2025 EAST HARBOR DRIVE** **FINDS CAR000084533**
1/8-1/4 **SAN DIEGO, CA 92113** **CA ENVIROSTOR**
0.169 mi. **US AIRS**
893 ft. **Site 4 of 4 in cluster E**

Relative:
Higher

Actual:
32 ft.

RCRA-LQG:
Date form received by agency: 05/22/2012
Facility name: CP KELCO
Facility address: 2025 EAST HARBOR DRIVE
SAN DIEGO, CA 92113
EPA ID: CAR000084533
Mailing address: EAST HARBOR DRIVE
SAN DIEGO, CA 92113
Contact: TONY BRENTNALL
Contact address: EAST HARBOR DRIVE
SAN DIEGO, CA 92113
Contact country: Not reported
Contact telephone: (619) 595-5957
Contact email: TONY.BRENTNALL@CPKELCO.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

CP KELCO (Continued) **1004676382**

Owner/Operator Summary:

Owner/operator name:	HUBER EQUITY CORPORATION
Owner/operator address:	EAST HARBOR DRIVE
	SAN DIEGO, CA 92113
Owner/operator country:	Not reported
Owner/operator telephone:	(619) 595-5957
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/30/2004
Owner/Op end date:	Not reported
Owner/operator name:	CP KELCO
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	09/29/2000
Owner/Op end date:	Not reported
Owner/operator name:	HUBER EQUITY CORP
Owner/operator address:	1209 ORANGE ST
	WILMINGTON, DE 19801
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/30/2004
Owner/Op end date:	Not reported
Owner/operator name:	CP KELCO
Owner/operator address:	EAST HARBOR DRIVE
	SAN DIEGO, CA 92113
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	09/30/2004
Owner/Op end date:	Not reported
Owner/operator name:	HUBER EQUITY CORPORATION
Owner/operator address:	2025 EAST HARBOR DRIVE
	SAN DIEGO, CA 92113
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	09/30/2004
Owner/Op end date:	Not reported
Owner/operator name:	CP KELCO
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private

CP KELCO (Continued) **1004676382**

Owner/Operator Type: Operator
Owner/Op start date: 09/30/2000
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Universal Waste Summary:
Waste type: Batteries
Accumulated waste on-site: Yes
Generated waste on-site: Yes

Waste type: Lamps
Accumulated waste on-site: Yes
Generated waste on-site: Yes

Waste type: Thermostats
Accumulated waste on-site: Yes
Generated waste on-site: Yes

Historical Generators:
Date form received by agency: 03/02/2010
Site name: CP KELCO
Classification: Large Quantity Generator

Date form received by agency: 02/28/2006
Site name: CP KELCO
Classification: Small Quantity Generator

Date form received by agency: 02/28/2006
Site name: CP KELCO
Classification: Large Quantity Generator

Date form received by agency: 10/27/2004
Site name: CP KELCO
Classification: Small Quantity Generator

Date form received by agency: 02/28/2002
Site name: CP KELCO
Classification: Large Quantity Generator

Date form received by agency: 10/12/2000

CP KELCO (Continued) **1004676382**

Site name: C P KELCO
Classification: Small Quantity Generator

Hazardous Waste Summary:
Waste code: 132
Waste name: 132

Waste code: 135
Waste name: 135

Waste code: 161
Waste name: 161

Waste code: 181
Waste name: 181

Waste code: 221
Waste name: 221

Waste code: 223
Waste name: 223

Waste code: 331
Waste name: 331

Waste code: 343
Waste name: 343

Waste code: 551
Waste name: 551

Waste code: 791
Waste name: 791

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D007
Waste name: CHROMIUM

Waste code: D035
Waste name: METHYL ETHYL KETONE

CP KELCO (Continued) **1004676382**

Waste code: D038
Waste name: PYRIDINE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF

CP KELCO (Continued) **1004676382**

DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D010
Waste name: SELENIUM

Waste code: D011
Waste name: SILVER

Waste code: 122
Waste name: 122

Waste code: 151
Waste name: 151

Waste code: 181
Waste name: 181

Waste code: 221
Waste name: 221

Waste code: 223
Waste name: 223

Waste code: 331
Waste name: 331

Waste code: 343
Waste name: 343

Waste code: 551
Waste name: 551

Waste code: 791
Waste name: 791

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN

CP KELCO (Continued) **1004676382**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D004
Waste name: ARSENIC

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D010
Waste name: SELENIUM

Waste code: D038
Waste name: PYRIDINE

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 34987

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 26859

Waste code: D007
Waste name: CHROMIUM
Amount (Lbs): 500

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 408

Waste code: D038
Waste name: PYRIDINE
Amount (Lbs): 770

CP KELCO (Continued) **1004676382**

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 408

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 408

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs): 1178

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 10/02/2003
Date achieved compliance: 10/15/2003
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: *Not reported*

Regulation violated: F - 279
Area of violation: Used Oil - Generators
Date violation determined: 06/08/2001
Date achieved compliance: 06/22/2001
Violation lead agency: EPA
Enforcement action: Not reported

CP KELCO (Continued) **1004676382**

Enforcement action date: 07/26/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 06/08/2001
Date achieved compliance: 06/22/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/27/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 279
Area of violation: Used Oil - Generators
Date violation determined: 06/08/2001
Date achieved compliance: 06/22/2001
Violation lead agency: EPA
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/27/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 264.50-56.D
Area of violation: TSD - General
Date violation determined: 06/08/2001
Date achieved compliance: 06/22/2001
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: 07/26/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 10/02/2003
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 10/15/2003
Evaluation lead agency: State Contractor/Grantee

CP KELCO (Continued) **1004676382**

Evaluation date: 06/08/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 06/22/2001
Evaluation lead agency: EPA

Evaluation date: 06/08/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 06/22/2001
Evaluation lead agency: EPA

FINDS:

Registry ID: 110001199792

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZARDOUS WASTE BIENNIAL REPORTER

ELECTRIC GENERATOR

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to

CP KELCO (Continued) **1004676382**

replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

SPCC

GREENHOUSE GAS REPORTER

ENVIROSTOR:

Facility ID:	37000035
Status:	Refer: 1248 Local Agency
Status Date:	04/12/2001
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	Referred - Not Assigned
Division Branch:	Cleanup Cypress
Assembly:	80
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not Applicable
Latitude:	32.69588
Longitude:	-117.1444
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	37000035
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	SB 1248 Notification
Completed Date:	04/12/2001
Comments:	SB 1248 San Diego County
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported

CP KELCO (Continued) **1004676382**

Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

AIRS (AFS):

Compliance and Violation Data Major Sources:
EPA plant ID: 110001199792
Plant name: KELCO MONSANTO CO
Plant address: 2025 HARBOR DR E
SAN DIEGO, CA 92113
County: SAN DIEGO
Region code: 09
Dunn & Bradst #: Not reported
Air quality cntrl region: 029
Sic code: 2833
Sic code desc: MEDICINALS AND BOTANICALS
North Am. industrial classf: 325411
NAIC code description: Medicinal and Botanical Manufacturing
Default compliance status: IN COMPLIANCE - INSPECTION
Default classification: POTENTIAL EMISSIONS ARE BELOW ALL APPLICABLE MAJOR SOURCE THRESHOLDS IF AND ONLY IF THE SOURCE COMPLIES WITH FEDERALLY ENFORCEABLE REGULATIONS OR LIMITATIONS.
Govt facility: ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV: Not reported

Compliance and Enforcement Major Issues:
Air program: NSR
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000207
Penalty amount: 000000000

Air program: NSPS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000207
Penalty amount: 000000000

Air program: PSD
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000207
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000207
Penalty amount: 000000000

Air program: NESHAP
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000207
Penalty amount: 000000000

Air program: TITLE V PERMITS

CP KELCO (Continued) **1004676382**

National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000207
Penalty amount: 000000000

Air program: NSR
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000627
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000627
Penalty amount: 000000000

Air program: PSD
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000627
Penalty amount: 000000000

Air program: NSPS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000627
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000627
Penalty amount: 000000000

Air program: NESHAP
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 000627
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 000802
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 000802
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 001020
Penalty amount: 000000825

Air program: NSPS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 010222
Penalty amount: 000000000

Air program: PSD
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 010222

CP KELCO (Continued) **1004676382**

Penalty amount: 000000000

Air program: SIP SOURCE
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 010222
Penalty amount: 000000000

Air program: NESHAP
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 010222
Penalty amount: 000000000

Air program: NSR
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 010222
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: SV RESOLVED
Date achieved: 010321
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 010425
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 010425
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: OTHER ADDRESSING ACTION
Date achieved: 020124
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 020124
Penalty amount: 000040000

Air program: NESHAP
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020327
Penalty amount: 000000000

Air program: PSD
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020327
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020327
Penalty amount: 000000000

CP KELCO (Continued) **1004676382**

Air program: NSR
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020327
Penalty amount: 000000000

Air program: NSPS
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020327
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020327
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 020429
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: ST SOURCE TEST CONDUCTED
Date achieved: 020516
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 020607
Penalty amount: Not reported

Air program: NSPS
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020729
Penalty amount: Not reported

Air program: NSR
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020729
Penalty amount: Not reported

Air program: PSD
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020729
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020729
Penalty amount: Not reported

Air program: NESHAP
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 020729
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: STATE CONDUCTED FCE / ON-SITE

CP KELCO (Continued) **1004676382**

Date achieved: 020729
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 020820
Penalty amount: 000006800

Air program: TITLE V PERMITS
National action type: OTHER ADDRESSING ACTION
Date achieved: 020820
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: SV RESOLVED
Date achieved: 020925
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 021023
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 021023
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: OTHER ADDRESSING ACTION
Date achieved: 021217
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 021217
Penalty amount: 000015500

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 030128
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 030128
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: OTHER ADDRESSING ACTION
Date achieved: 030210
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: TITLE V COMPLIANCE CERT DUE/RECEIVED BY
Date achieved: 030304
Penalty amount: Not reported

CP KELCO (Continued) **1004676382**

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 030428
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: ST SOURCE TEST CONDUCTED
Date achieved: 030516
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: COMPLIANCE CERTIFICATION STATE REVIEW
Date achieved: 030617
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: COMPLIANCE CERTIFICATION STATE REVIEW
Date achieved: 030818
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 030903
Penalty amount: 000007500

Air program: TITLE V PERMITS
National action type: OTHER ADDRESSING ACTION
Date achieved: 030905
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: COMPL BY STATE, NO ACT REQ
Date achieved: 030905
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 040120
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: TITLE V COMPLIANCE CERT DUE/RECEIVED BY
Date achieved: 040308
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: SV RESOLVED
Date achieved: 040510
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: ST SOURCE TEST CONDUCTED
Date achieved: 040513
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: COMPLIANCE CERTIFICATION EPA REVIEW

CP KELCO (Continued) **1004676382**

Date achieved: 040706
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: COMPLIANCE CERTIFICATION STATE REVIEW
Date achieved: 050303
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 050407
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: ST SOURCE TEST CONDUCTED
Date achieved: 060518
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 070225
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 080730
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 090114
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 100127
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: ST SOURCE TEST CONDUCTED
Date achieved: 110505
Penalty amount: Not reported

Air program: NSR
National action type: ST SOURCE TEST CONDUCTED
Date achieved: 110505
Penalty amount: Not reported

Air program: NSR
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 110717
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 110717
Penalty amount: Not reported

CP KELCO (Continued) **1004676382**

Air program: PSD
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 110717
Penalty amount: Not reported

Air program: NSPS
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 110717
Penalty amount: Not reported

Air program: NESHAP
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 110717
Penalty amount: Not reported

Air program: PSD
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 120111
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 120111
Penalty amount: Not reported

Air program: NSR
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 120111
Penalty amount: Not reported

Air program: NSPS
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 120111
Penalty amount: Not reported

Air program: NESHAP
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 120111
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 130128
Penalty amount: Not reported

Air program: NESHAP
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 130128
Penalty amount: Not reported

Air program: PSD
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 130128
Penalty amount: Not reported

Air program: NSR
National action type: STATE CONDUCTED FCE / ON-SITE

CP KELCO (Continued) **1004676382**

Date achieved: 130128
Penalty amount: Not reported

Air program: NSPS
National action type: STATE CONDUCTED FCE / ON-SITE
Date achieved: 130128
Penalty amount: Not reported

Air program: PSD
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 970527
Penalty amount: 000000000

Air program: NSPS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 970527
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 970527
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 970527
Penalty amount: 000000000

Air program: NESHAP
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 970527
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 970527
Penalty amount: 000000000

Air program: NSR
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 970527
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 970610
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 970806
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 970813
Penalty amount: 000000000

CP KELCO (Continued) **1004676382**

Air program: TITLE V PERMITS
National action type: STATE SV REPORTED AS ADDRESSED
Date achieved: 970818
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: STATE DAY 0
Date achieved: 971210
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: NXXXXX
Date achieved: 971222
Penalty amount: 000000000

Air program: NESHAP
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 980107
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 980107
Penalty amount: 000000000

Air program: PSD
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 980107
Penalty amount: 000000000

Air program: NSPS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 980107
Penalty amount: 000000000

Air program: NSR
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 980107
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 980107
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: STATE SV REPORTED AS ADDRESSED
Date achieved: 980126
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 980222
Penalty amount: 000001375

Air program: SIP SOURCE
National action type: SV RESOLVED

CP KELCO (Continued) **1004676382**

Date achieved: 980330
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: NXXXXX
Date achieved: 980330
Penalty amount: 000000300

Air program: TITLE V PERMITS
National action type: COMPL BY STATE, NO ACT REQ
Date achieved: 980521
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: SV RESOLVED
Date achieved: 980521
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: OTHER ADDRESSING ACTION
Date achieved: 980521
Penalty amount: Not reported

Air program: TITLE V PERMITS
National action type: SV RESOLVED
Date achieved: 980622
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 980622
Penalty amount: 000000240

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 980717
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 980728
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 980921
Penalty amount: 000000500

Air program: TITLE V PERMITS
National action type: SV RESOLVED
Date achieved: 980921
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: STATE DAY 0
Date achieved: 981216
Penalty amount: 000000000

CP KELCO (Continued) **1004676382**

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 981216
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: OTHER ADDRESSING ACTION
Date achieved: 990222
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: NXXXXX
Date achieved: 990222
Penalty amount: 000001250

Air program: TITLE V PERMITS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 990315
Penalty amount: 000000000

Air program: NSPS
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 990315
Penalty amount: 000000000

Air program: SIP SOURCE
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 990315
Penalty amount: 000000000

Air program: NSR
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 990315
Penalty amount: 000000000

Air program: NESHAP
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 990315
Penalty amount: 000000000

Air program: PSD
National action type: MULTI MEDIA INSPECTION - LEVEL 2 OR GREATER
Date achieved: 990315
Penalty amount: 000000000

Air program: TITLE V PERMITS
National action type: SV RESOLVED
Date achieved: 990401
Penalty amount: 000000000

Historical Compliance Minor Sources:
State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004

CP KELCO (Continued) **1004676382**

Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: PSD

CP KELCO (Continued) **1004676382**

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION.

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CP KELCO (Continued) **1004676382**

Hist compliance date: 1203
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302

CP KELCO (Continued) **1004676382**

Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1004
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1101
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1102
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1103
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1104
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1201
Air prog code hist file: TITLE V PERMITS

CP KELCO (Continued) **1004676382**

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1202
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1203
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1204
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1301
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1302
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - SHUT DOWN
Hist compliance date: 1303
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: NSR

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: PSD

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: NESHAP

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: NSR

Permit Information:
Compliance plant ID: 00029
Permit number: 975950
Permit category: V
Permit category desc: TITLE V PERMIT - PLANT SP

CP KELCO (Continued) **1004676382**

Permit Source:
Compliance plant ID: 00029
Plant name: KELCO MONSANTO.CO
Plant address: 2025 HARBOR DR E
SAN DIEGO, CA 92113

Event Information:
Compliance permit ID: 00029
Permit number: 975950
Event action type: IF
Event description: *PERMIT AUTHORITY ISSUES FINAL PERMIT
Event action #: 001
Event date: 20021202

F43 **ARCO SAN DIEGO TERMINAL** **TRIS 1005454843**
East **2295 HARBOR DR** **CA UST 92113RCSND2295E**
1/8-1/4 **SAN DIEGO, CA 92113**
0.197 mi.
1038 ft. **Site 1 of 8 in cluster F**

Relative:
Higher

Actual:
33 ft.

TRIS:

Click this hyperlink while viewing on your computer to access
9 additional US_TRIS: record(s) in the EDR Site Report.

UST:
Facility ID: H02375
Latitude: 32.6949939
Longitude: -117.140481
Permitting Agency: SAN DIEGO COUNTY

F44 **SAN DIEGO MARKETING TERMINAL** **RCRA-LQG 1000153711**
East **2295 E HARBOR DRIVE** **US AIRS CAD000633271**
1/8-1/4 **SAN DIEGO, CA 92113**
0.197 mi.
1038 ft. **Site 2 of 8 in cluster F**

Relative:
Higher

Actual:
33 ft.

RCRA-LQG:
Date form received by agency: 08/21/2013
Facility name: SAN DIEGO MARKETING TERMINAL
Facility address: 2295 E HARBOR DRIVE
SAN DIEGO, CA 92113
EPA ID: CAD000633271
Mailing address: 8601 S GARFIELD AVE
SOUTH GATE, CA 90280
Contact: RUTHANNE M WALKER
Contact address: 8601 S GARFIELD AVE
SOUTH GATE, CA 90280
Contact country: US
Contact telephone: 562-806-4015
Contact email: RUTHANNE.M.WALKER@TSOCORP.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than *100 kg of that material at any time*

Owner/Operator Summary:

Owner/operator name:	TESORO LOGISTICS OPS LLC
Owner/operator address:	19100 RIDGEWOOD PKWY
	SAN ANTONIO, TX 78259
Owner/operator country:	US
Owner/operator telephone:	210-626-6000
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	06/01/2013
Owner/Op end date:	Not reported
Owner/operator name:	TESORO LOGISTICS OPS LLC
Owner/operator address:	Not reported
	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/01/2013
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	06/05/2013
Site name:	SAN DIEGO MARKETING TERMINAL
Classification:	Large Quantity Generator
Date form received by agency:	08/21/2012

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Site name: BP WEST COAST PRODUCTS LLC, ARCO SAN DIEGO TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 06/07/2010
Site name: BP WEST COAST PRODUCTS, ARCO SAN DIEGO T
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: ATLANTIC RICHFIELD CO SAN DIEGO TERM
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: ATLANTIC RICHFIELD CO SAN DIEGO TERM
Classification: Small Quantity Generator

Date form received by agency: 02/29/1996
Site name: ARCO PRODUCTS COMPANY-SAN DIEGO TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 03/25/1994
Site name: ARCO PRODUCTS CO SAN DIEGO TERM
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Site name: ARCO PETROLEUM PRODUCTS CO SAN DIEGO TER
Classification: Large Quantity Generator

Date form received by agency: 08/18/1980
Site name: ATLANTIC RICHFIELD CO SAN DIEGO TERM
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: 133
Waste name: 133

Waste code: 134
Waste name: 134

Waste code: 135
Waste name: 135

Waste code: 151
Waste name: 151

Waste code: 181
Waste name: 181

Waste code: 214
Waste name: 214

Waste code: 223
Waste name: 223

Waste code: 343
Waste name: 343

Waste code: 352

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Waste name: 352

Waste code: 491
Waste name: 491

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D004
Waste name: ARSENIC

Waste code: D018
Waste name: BENZENE

Biennial Reports:

Last Biennial Reporting Year: 2013

Annual Waste Handled:
Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 1898

Waste code: D004
Waste name: ARSENIC
Amount (Lbs): 1958

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 4206

Violation Status: No violations found

Evaluation Action Summary:
Evaluation date: 05/05/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

AIRS (AFS):

Airs Minor Details:
EPA plant ID: 110000478830

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Plant name:	ARCO PRODUCTS-SAN DIEGO TERMINAL
Plant address:	2295 E HARBOR DR SAN DIEGO, CA 92113
County:	SAN DIEGO
Region code:	09
Dunn & Bradst #:	155829617
Air quality cntrl region:	029
Sic code:	5171
Sic code desc:	PETROLEUM BULK STATIONS AND TERMINALS
North Am. industrial classf:	424710
NAIC code description:	Petroleum Bulk Stations and Terminals
Default compliance status:	MEETING COMPLIANCE SCHEDULE
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported
Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
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National action type: Not reported
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Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00000
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00500
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00500
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00500
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 00750
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 01500
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Date achieved: 01800
Penalty amount: Not reported

Air program: SIP SOURCE
National action type: Not reported
Date achieved: 04750
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

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National action type: Not reported
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National action type: Not reported
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National action type: Not reported
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Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

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Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

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National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

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Penalty amount: Not reported

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National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

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National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Historical Compliance Minor Sources:
State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1102
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1104
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1203
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1301
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1303
Air prog code hist file: TITLE V PERMITS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1004
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1101
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1103
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: NSPS

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1302
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: NSPS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1004

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1101
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1103
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1201
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1202
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1204
Air prog code hist file: TITLE V PERMITS

State compliance status: MEETING COMPLIANCE SCHEDULE
Hist compliance date: 1302
Air prog code hist file: TITLE V PERMITS

Compliance & Violation Data by Minor Sources:
Air program code: SIP SOURCE
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: Not reported
Default pollutant classification: Not reported
Def. poll. compliance status: PRESENT, SEE OTHER PROGRAM(S)
Def. attainment/non attnmnt: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: SEVERE (FOR VOC AND NO) 2
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: NSPS
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: SEVERE (FOR VOC AND NO) 2
Repeat violator date: Not reported

SAN DIEGO MARKETING TERMINAL (Continued) **1000153711**

Turnover compliance: Not reported

Air program code: TITLE V PERMITS
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: MEETING COMPLIANCE SCHEDULE
Def. attainment/non attnmnt: Not reported
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: TOTAL HYDROCARBONS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: ALL OTHER NON-ATTAINMENT FOR PRIMARY AND SECONDARY STANDARDS
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: NSPS
Plant air program pollutant: TOTAL HYDROCARBONS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: ALL OTHER NON-ATTAINMENT FOR PRIMARY AND SECONDARY STANDARDS
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: SERIOUS (FOR VOC, NO, CO AND PARTICULATE) 2
Repeat violator date: Not reported
Turnover compliance: Not reported

Permit Information:
Compliance plant ID: 00039
Permit number: 961887
Permit category: V
Permit category desc: TITLE V PERMIT - PLANT SP

Event Information:
Compliance permit ID: 00039
Permit number: 961887
Event action type: IF
Event description: *PERMIT AUTHORITY ISSUES FINAL PERMIT
Event action #: 001
Event date: 20010206

F45
East
1/8-1/4
0.197 mi.
1038 ft.

ARCO SAN DIEGO TERMINAL
2295 HARBOR DR
SAN DIEGO, CA 92113

CA HIST UST **U001560576**
CA EMI **N/A**

Site 3 of 8 in cluster F

Relative:
Higher

Actual:
33 ft.

HIST UST:

Region:	STATE
Facility ID:	00000004638
Facility Type:	Other
Other Type:	PIPELINE CO.
Total Tanks:	0001
Contact Name:	E. W. HALE
Telephone:	6192836511
Owner Name:	SAN DIEGO PIPELINE COMPANY
Owner Address:	610 SOUTH MAIN STREET
Owner City,St,Zip:	LOS ANGELES, CA 90014
Tank Num:	001
Container Num:	RELIEF TAN
Year Installed:	1973
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Tank Construction:	Not reported
Leak Detection:	Visual

EMI:

Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	19.95
Reactive Organic Gases Tons/Yr:	19.95
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2007
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11.2
Reactive Organic Gases Tons/Yr:	11.2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0

ARCO SAN DIEGO TERMINAL (Continued) **U001560576**

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	15.1
Reactive Organic Gases Tons/Yr:	10.4
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2009
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	16.190000000000001
Reactive Organic Gases Tons/Yr:	9.4700000000000006
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2010
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	16.93
Reactive Organic Gases Tons/Yr:	10.789999999999999
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2011
County Code:	37
Air Basin:	SD

ARCO SAN DIEGO TERMINAL (Continued) **U001560576**

Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	16.98
Reactive Organic Gases Tons/Yr:	10.83
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2012
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	16.98
Reactive Organic Gases Tons/Yr:	10.83
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

F46 **EDR US Hist Auto Stat** **1015343090**
East **2295 HARBOR DR** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.197 mi.
1038 ft. **Site 4 of 8 in cluster F**

Relative:
Higher

Actual:
33 ft.

EDR Historical Auto Stations:

Name:	ARCO PRODUCTS CO
Year:	2001
Address:	2295 HARBOR DR
Name:	ARCO PRODUCTS CO
Year:	2002
Address:	2295 HARBOR DR
Name:	ARCO PRODUCTS CO
Year:	2003
Address:	2295 HARBOR DR
Name:	BP ARCO PRODUCTS CO
Year:	2004
Address:	2295 HARBOR DR
Name:	BP WEST COAST PRODUCTS LLC
Year:	2007
Address:	2295 HARBOR DR

(Continued) **1015343090**

Name: ATLANTIC RICHFIELD CO
Year: 2008
Address: 2295 HARBOR DR

Name: BP WEST COAST PRODUCTS LLC
Year: 2009
Address: 2295 HARBOR DR

Name: ARCO GASOLINE
Year: 2011
Address: 2295 HARBOR DR

Name: ARCO GASOLINE
Year: 2012
Address: 2295 HARBOR DR

F47 **ARCO** **CA NPDES** **S100725892**
East **2295 HARBOR DR E** **CA HIST CORTESE** **N/A**
1/8-1/4 **SAN DIEGO, CA 92101** **CA LUST**
0.197 mi. **CA SLIC**
1038 ft. **Site 5 of 8 in cluster F** **CA SWEEPS UST**
CA San Diego Co. HMMD
Relative: **CA EMI**
Higher **CA SAN DIEGO CO. SAM**

Actual: **33 ft.**

NPDES:
Npdes Number: CAS000001
Facility Status: Active
Agency Id: 0
Region: 9
Regulatory Measure Id: 437385
Order No: 97-03-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 9 37I024236
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 05/03/2013
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Tesoro Logistics Operations LLC
Discharge Address: 19100 Ridgewood Parkway
Discharge City: San Antonio
Discharge State: Texas
Discharge Zip: 78259

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT19

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2279

ARCO (Continued) **S100725892**

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT3218

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT3030

LUST:
Region: STATE
Global Id: T0607301975
Latitude: 32.6947291
Longitude: -117.1424494
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/27/2010
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT3218
LOC Case Number: H02375-004
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Soil and groundwater assessment and remediation activities have been ongoing at the site since 1992 to address hydrocarbon impacts due to historical fuel releases at the site. There are currently four open site assessment cases with DEH for this site. All information is managed under DEH case # H02375-005. Site assessment activities are ongoing for this site, and joint monitoring with the neighboring Cheveron terminal is being conducted. Please see the Environmental Data tab for additional site specific data. This case has been administratively consolidated with H02375-003, please see H02375-003 for all case information.

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607301975
Status: Completed - Case Closed
Status Date: 01/27/2010

Global Id: T0607301975
Status: Open - Case Begin Date
Status Date: 04/12/1996

Global Id: T0607301975
Status: Open - Remediation
Status Date: 06/27/1996

Regulatory Activities:
Global Id: T0607301975
Action Type: ENFORCEMENT
Date: 06/28/1996
Action: Notice of Responsibility

ARCO (Continued) **S100725892**

Global Id: T0607301975
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607301975
Action Type: ENFORCEMENT
Date: 01/21/2010
Action: Closure/No Further Action Letter

Global Id: T0607301975
Action Type: ENFORCEMENT
Date: 07/15/2009
Action: Letter - Notice

Global Id: T0607301975
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607301975
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T0607301975
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Region: STATE
Global Id: T0607301045
Latitude: 32.6947291
Longitude: -117.1424494
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/27/2010
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT2279
LOC Case Number: H02375-002
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Soil and groundwater assessment and remediation activities have been ongoing at the site since 1992 to address hydrocarbon impacts due to historical fuel releases at the site. There are currently four open site assessment cases with DEH for this site. All information is managed under DEH case # H02375-005. Site assessment activities are ongoing for this site, and joint monitoring with the neighboring Cheveron terminal is being conducted. Please see the Environmental Data tab for additional site specific data. This case has been consolidated with H02375-003, please see case H02375-003 for all case information.

ARCO (Continued) **S100725892**

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607301045
Status:	Open - Case Begin Date
Status Date:	09/10/1992
Global Id:	T0607301045
Status:	Completed - Case Closed
Status Date:	01/27/2010
Global Id:	T0607301045
Status:	Open - Remediation
Status Date:	11/14/1997

Regulatory Activities:

Global Id:	T0607301045
Action Type:	ENFORCEMENT
Date:	10/19/1992
Action:	Notice of Responsibility
Global Id:	T0607301045
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607301045
Action Type:	ENFORCEMENT
Date:	01/21/2010
Action:	Closure/No Further Action Letter
Global Id:	T0607301045
Action Type:	ENFORCEMENT
Date:	07/14/2009
Action:	Letter - Notice
Global Id:	T0607301045
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607301045
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began

Region:	STATE
Global Id:	T0607301799
Latitude:	32.6939991944137
Longitude:	-117.142388820648
Case Type:	LUST Cleanup Site
Status:	Open - Remediation
Status Date:	05/01/1998
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	EP

ARCO (Continued) **S100725892**

Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT3030
LOC Case Number:	H02375-003
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	This case has been administratively consolidated with the following DEH cases H02375-002, H02375-004, & H02375-005. Soil and groundwater assessment and remediation activities have been ongoing at the site since 1992 to address hydrocarbon impacts due to historical fuel releases at the site. There were four separate releases that were initiated on this site. Site assessment activities are ongoing for this site, and joint monitoring with the neighboring Cheveron terminal is being conducted. Please see the Environmental Data tab for additional site specific data.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607301799
Contact Type:	Local Agency Caseworker
Contact Name:	ED PAREDES
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	SAN DIEGO
Email:	ed.paredes@sdcounty.ca.gov
Phone Number:	8585056806

Status History:

Global Id:	T0607301799
Status:	Open - Case Begin Date
Status Date:	11/22/1994
Global Id:	T0607301799
Status:	Open - Remediation
Status Date:	05/01/1998

Regulatory Activities:

Global Id:	T0607301799
Action Type:	RESPONSE
Date:	11/20/2008
Action:	Monitoring Report - Quarterly
Global Id:	T0607301799
Action Type:	RESPONSE
Date:	05/04/2009
Action:	Monitoring Report - Quarterly
Global Id:	T0607301799
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	In Situ Physical/Chemical Treatment (other than SVE)
Global Id:	T0607301799
Action Type:	RESPONSE
Date:	04/30/2011
Action:	Monitoring Report - Semi-Annually

ARCO (Continued) **S100725892**

Global Id: T0607301799
Action Type: RESPONSE
Date: 01/30/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0607301799
Action Type: RESPONSE
Date: 07/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0607301799
Action Type: REMEDIATION
Date: 01/01/1950
Action: Soil Vapor Extraction (SVE)

Global Id: T0607301799
Action Type: ENFORCEMENT
Date: 07/14/2009
Action: Letter - Notice

Global Id: T0607301799
Action Type: RESPONSE
Date: 04/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607301799
Action Type: ENFORCEMENT
Date: 01/05/1995
Action: Notice of Responsibility

Global Id: T0607301799
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607301799
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0607301799
Action Type: RESPONSE
Date: 01/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607301799
Action Type: RESPONSE
Date: 01/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0607301799
Action Type: ENFORCEMENT
Date: 01/21/2010
Action: Letter - Notice

Global Id: T0607301799
Action Type: RESPONSE

ARCO (Continued) **S100725892**

Date:	10/30/2010
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301799
Action Type:	RESPONSE
Date:	07/30/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301799
Action Type:	RESPONSE
Date:	12/10/2012
Action:	Correspondence
Global Id:	T0607301799
Action Type:	RESPONSE
Date:	07/30/2013
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607301799
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607301799
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607301799
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped
Region:	STATE
Global Id:	T0607399202
Latitude:	32.693833
Longitude:	-117.140976
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/27/2010
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT3986
LOC Case Number:	H02375-005
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Soil and groundwater assessment and remediation activities have been ongoing at the site since 1992 to address hydrocarbon impacts due to historical fuel releases at the site. There are currently four open site assessment cases with DEH for this site. All information is managed under DEH case # H02375-005. Site assessment activities are ongoing for this site, and joint monitoring with the neighboring Cheveron terminal is being conducted. Please see the Environmental Data tab for additional site specific data. This case has been

ARCO (Continued) **S100725892**

administratively consolidated with H02375-003, please see H02375-003 for all case information.

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607399202
Status:	Completed - Case Closed
Status Date:	01/27/2010
Global Id:	T0607399202
Status:	Open - Remediation
Status Date:	05/01/1998
Global Id:	T0607399202
Status:	Open - Case Begin Date
Status Date:	05/01/1998

Regulatory Activities:

Global Id:	T0607399202
Action Type:	RESPONSE
Date:	05/04/2009
Action:	Monitoring Report - Quarterly
Global Id:	T0607399202
Action Type:	ENFORCEMENT
Date:	10/08/1999
Action:	Notice of Responsibility
Global Id:	T0607399202
Action Type:	ENFORCEMENT
Date:	01/21/2010
Action:	Closure/No Further Action Letter
Global Id:	T0607399202
Action Type:	RESPONSE
Date:	11/20/2008
Action:	Monitoring Report - Quarterly
Global Id:	T0607399202
Action Type:	RESPONSE
Date:	07/30/2009
Action:	Monitoring Report - Quarterly
Global Id:	T0607399202
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607399202
Action Type:	ENFORCEMENT
Date:	07/15/2009
Action:	Letter - Notice
Global Id:	T0607399202
Action Type:	Other
Date:	01/01/1950

ARCO (Continued) **S100725892**

Action: Leak Reported

Global Id: T0607399202
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0607399202
Action Type: Other
Date: 01/01/1950
Action: Leak Began

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT19
Local Case: T00299
Substance: Misc. Motor Vehicle Fuels
Qty Leaked: Not reported
Abate Method: No Action Required - incident is minor, requiring no remedial action
Local Agency: San Diego
How Found: Not reported
How Stopped: Not reported
Source: Not reported
Cause: Not reported
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: / /
Date Stopped: / /
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: 09/30/1986
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 09/10/1986
Enforce Date: Not reported
Closed Date: 4/20/87
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.21
GW Depth: Not reported
Beneficial Use: NBNB/E
NPDES Number: Not reported
Priority: Not reported
File Dispn: File discarded, case closed
Interim Remedial Actions: No
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT2279
Local Case: H02375-002
Substance: Gasoline

ARCO (Continued) **S100725892**

Qty Leaked:	Not reported
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	09/10/1992
Date Stopped:	09/10/1992
Confirm Date:	10/19/1992
Submit Workplan:	10/20/92
Prelim Assess:	03/31/1993
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	09/10/1992
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.21
GW Depth:	19'
Beneficial Use:	NBNB/E
NPDES Number:	Not reported
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT3218
Local Case:	H02375-004
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Not reported
How Stopped:	Not reported
Source:	Not reported
Cause:	Not reported
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	04/12/1996
Date Stopped:	04/12/1996
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	06/13/1996
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	04/12/1996

ARCO (Continued) **S100725892**

Enforce Date: 6/28/96
Closed Date: Not reported
Enforce Type: SEL
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 11'+
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: Administratively opened on database, however no file physically exists
Interim Remedial Actions: Not reported
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 11/20/2008
Global Id: T0608130078
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H02375-001
Latitude: 32.6932588102089
Longitude: -117.14200258255
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT19
File Location: Local Agency
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:
Status: Active
Comp Number: 2375
Number: 9
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002375-000001
Tank Status: A
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: OTHER
Number Of Tanks: 5

Status: Active
Comp Number: 2375
Number: 9
Board Of Equalization: 44-000506

ARCO (Continued) **S100725892**

Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002375-000002
Tank Status: A
Capacity: 2000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2375
Number: 9
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002375-000003
Tank Status: A
Capacity: 550
Active Date: Not reported
Tank Use: OIL
STG: P
Content: Not reported
Number Of Tanks: Not reported

Status: Active
Comp Number: 2375
Number: 9
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002375-000004
Tank Status: A
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 2375
Number: 9
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002375-000005
Tank Status: A

ARCO (Continued) **S100725892**

Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: Not reported

SAN DIEGO CO. HMMD:
Facility Id: 102375
Business Type: 6HK78
EPA Id Number: CAD000633271
APN: 538-770-02-00
Last HMMD Inspection: 10/04/2010
Permit Status: OPEN
Permit Expiration: 01/31/2013
Facility Owner: BP WEST COAST PRODUCTS, LLC
Facility Address: 2295 E HARBOR DR
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92113-3636
UST Owner: ARCO PETROLEUM PRODUCTS
Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:
UST Name: UNDERGROUND TANK 102375 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 102375
Tank Type: SINGLE WALL
Additional Id: Not reported
Capacity Gallons: 10000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1992-10-09 00:00:00
Year Installed: 1972-01-01 00:00:00
Pipe Type: Not reported
Delivery System: GRAVITY
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 102375 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 102375
Tank Type: SINGLE WALL
Additional Id: Not reported
Capacity Gallons: 2000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1992-10-09 00:00:00
Year Installed: 1969-01-01 00:00:00

ARCO (Continued) **S100725892**

Pipe Type:	SINGLE WALL
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 102375 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	GASOLINE & WATER
Capacity Gallons:	550
UST Contents:	Not reported
Other Content Info:	GASOLINE & WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1992-10-09 00:00:00
Year Installed:	1969-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 102375 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	WATER DRAW
Capacity Gallons:	550
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1992-10-09 00:00:00
Year Installed:	1972-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 102375 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	WASTE WATER
Capacity Gallons:	550
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1994-01-22 00:00:00
Year Installed:	1984-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

ARCO (Continued) **S100725892**

UST Name:	UNDERGROUND TANK 102375 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	56
Capacity Gallons:	750
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	CLOSED
Remove Close Date:	1994-11-28 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 102375 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	DOUBLE WALL
Additional Id:	NT1806 PUMPBACK(MISC.FUEL PRODUCTS)/AT5270
Capacity Gallons:	868
UST Contents:	Not reported
Other Content Info:	PUMPBACK(MISC.FUEL PRODUCTS)
Reg Status:	REMOVED
Remove Close Date:	2006-11-29 00:00:00
Year Installed:	1994-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	16
UST Monitor Method:	DW TANK SW SUCTION PIPE: CONTINUOUS INTERSTITIAL MONITOR, PIPE TEST TRIENNIALLY

UST Name:	UNDERGROUND TANK 102375 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	NT1861
Capacity Gallons:	500
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1996-12-04 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 102375 T009
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	DOUBLE WALL
Additional Id:	NT1861 VAPOR RECOVERY/AT5270
Capacity Gallons:	1850

ARCO (Continued) **S100725892**

UST Contents:	Not reported
Other Content Info:	GASOLINE(TYPE UNKNOWN)
Reg Status:	CLOSED
Remove Close Date:	2006-11-29 00:00:00
Year Installed:	1996-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	SUCTION
Monitor Code:	16
UST Monitor Method:	DW TANK SW SUCTION PIPE: CONTINUOUS INTERSTITIAL MONITOR, PIPE TEST TRIENNIALLY
UST Name:	UNDERGROUND TANK 102375 T010
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL WITH INTERNAL BLAD
Additional Id:	STORM WATER /EMERGENCY CONTAINMENT
Capacity Gallons:	1500
UST Contents:	OTHER
Other Content Info:	WASTE WATER (FUEL & WATER)
Reg Status:	DEFICIENT
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	UNKNOWN
Delivery System:	GRAVITY
Monitor Code:	99
UST Monitor Method:	OTHER - BLIND REMARK REQUIRED

Active Permits:

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	GASOLINE UNLEADED
Other Information:	TANK 5
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	REACTIVE
Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information:	VRU-ETHYLENE GLYCOL W/ETHANOL(D001)(D004)(D0018)
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	102375
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	TRANMIX TANK 6
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	REACTIVE
Facility Id:	102375
Update Date:	11/02/2012

ARCO (Continued) **S100725892**

Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE
Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	BIODIESEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported
Facility Id:	102375
Update Date:	11/02/2012
Case Number:	7440-44-0
Name:	CARBON
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	102375
Update Date:	11/02/2012
Case Number:	7727-37-9
Name:	NITROGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE
Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	TOLAD 3512 FUEL ADDITIVE BY BAKER HUGHS
Other Information:	CONDUCTIVITY IMPROVER ADDITIVE FOR DIESEL AND BIODIESEL
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information:	TANK DEBRIS, BLAST MEDIA
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	102375
Update Date:	11/02/2012
Case Number:	29385-43-1
Name:	AFFF, FIRE FIGHTING FOAM
Other Information:	Not reported

ARCO (Continued) **S100725892**

Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: PRODUCT CONT W/WATER
Other Information: TANK #9 FUEL/ WATER
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 64-17-5
Name: ETHYL ALCOHOL- DENATURED
Other Information: ETHANOL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 107-21-1
Name: ETHYLENE GLYCOL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: MIXTURE
Name: FUEL ADDITIVE
Other Information: PURADD(BENZENES)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: GASOLINE UNLEADED
Other Information: TANK 2
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information: WATER W/ GAS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

ARCO (Continued) **S100725892**

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 68476-30-2
Name: DIESEL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: GASOLINE UNLEADED
Other Information: TANK 1
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: REACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 64742-65-0
Name: MOTOR OIL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV0142
Violation: DID NOT NOTIFY OF TIERED PERMITTING
Violation Citation: TIERED PERMITTING: Facility has failed to notify local CUPA and DTSC of eligible onsite treatment of hazardous waste. 25201(a)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3192
Violation: NO D.O INSPECTION/INCOMPL;NO REPORTS
Violation Citation: Designated Operator monthly inspection not conducted or incomplete; or DO inspection reports not onsite 2715 (c)(d)(e)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012

ARCO (Continued) **S100725892**

Inspection Date: 05/31/2005
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3164
Violation: MONITOR EQUIP NOT PER MANUF. SPECS
Violation Citation: All monitoring equipment not installed, calibrated, operated, and/or maintained per manufacturer instructions. 2638(a), 2641(j)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 05/31/2005
Violation Code: 6HV0215
Violation: OIL FILTERS IMPROPERLY MANAGED
Violation Citation: Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3103
Violation: NO UST PLAN CHECK PERMIT OBTAINED
Violation Citation: UST repair/modify/closure permit not obtained .68.1004, 68.1005, 68.1009.5
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 04/09/2003
Violation Code: 6HV3110
Violation: NO ANNUAL CERT OF ATG AND SENSORS
Violation Citation: Annual certification for ATG and/or sensors not completed (existing tank systems only). 2641(j), 2638
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV0234
Violation: FACILITY NOT OPERATED TO MINIM. RELEASE
Violation Citation: Did not maintain &/or operate facility to prevent release or fire. CFR 265.31
Activity: ACTIVE

Facility Id: 102375
Business Type: 6HK78
EPA Id Number: CAD000633271

ARCO (Continued) **S100725892**

APN:	538-770-02-00
Last HMMD Inspection:	10/04/2010
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Facility Owner:	BP WEST COAST PRODUCTS, LLC
Facility Address:	2295 E HARBOR DR
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-3636
UST Owner:	ARCO PETROLEUM PRODUCTS
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	N
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 102375 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	Not reported
Capacity Gallons:	10000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1992-10-09 00:00:00
Year Installed:	1972-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	GRAVITY
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 102375 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	Not reported
Capacity Gallons:	2000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1992-10-09 00:00:00
Year Installed:	1969-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 102375 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	GASOLINE & WATER
Capacity Gallons:	550

ARCO (Continued) **S100725892**

UST Contents:	Not reported
Other Content Info:	GASOLINE & WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1992-10-09 00:00:00
Year Installed:	1969-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 102375 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	WATER DRAW
Capacity Gallons:	550
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1992-10-09 00:00:00
Year Installed:	1972-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 102375 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	WASTE WATER
Capacity Gallons:	550
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1994-01-22 00:00:00
Year Installed:	1984-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 102375 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	56
Capacity Gallons:	750
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	CLOSED
Remove Close Date:	1994-11-28 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported

ARCO (Continued) **S100725892**

Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 102375 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	DOUBLE WALL
Additional Id:	NT1806 PUMPBACK(MISC.FUEL PRODUCTS)/AT5270
Capacity Gallons:	868
UST Contents:	Not reported
Other Content Info:	PUMPBACK(MISC.FUEL PRODUCTS)
Reg Status:	REMOVED
Remove Close Date:	2006-11-29 00:00:00
Year Installed:	1994-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	16
UST Monitor Method:	DW TANK SW SUCTION PIPE: CONTINUOUS INTERSTITIAL MONITOR, PIPE TEST TRIENNIALLY
UST Name:	UNDERGROUND TANK 102375 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	NT1861
Capacity Gallons:	500
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1996-12-04 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 102375 T009
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	DOUBLE WALL
Additional Id:	NT1861 VAPOR RECOVERY/AT5270
Capacity Gallons:	1850
UST Contents:	Not reported
Other Content Info:	GASOLINE(TYPE UNKNOWN)
Reg Status:	CLOSED
Remove Close Date:	2006-11-29 00:00:00
Year Installed:	1996-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	SUCTION
Monitor Code:	16
UST Monitor Method:	DW TANK SW SUCTION PIPE: CONTINUOUS INTERSTITIAL MONITOR, PIPE TEST TRIENNIALLY
UST Name:	UNDERGROUND TANK 102375 T010

ARCO (Continued) **S100725892**

Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL WITH INTERNAL BLAD
Additional Id:	STORM WATER /EMERGENCY CONTAINMENT
Capacity Gallons:	1500
UST Contents:	OTHER
Other Content Info:	WASTE WATER (FUEL & WATER)
Reg Status:	DEFICIENT
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	UNKNOWN
Delivery System:	GRAVITY
Monitor Code:	99
UST Monitor Method:	OTHER - BLIND REMARK REQUIRED

Active Permits:

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	GASOLINE UNLEADED
Other Information:	TANK 5
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	REACTIVE

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information:	VRU-ETHYLENE GLYCOL W/ETHANOL(D001)(D004)(D0018)
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	TRANMIX TANK 6
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	REACTIVE

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	BIODIESEL
Other Information:	Not reported

ARCO (Continued) **S100725892**

Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 7440-44-0
Name: CARBON
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: TOLAD 3512 FUEL ADDITIVE BY BAKER HUGHS
Other Information: CONDUCTIVITY IMPROVER ADDITIVE FOR DIESEL AND BIODIESEL
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information: TANK DEBRIS, BLAST MEDIA
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 29385-43-1
Name: AFFF, FIRE FIGHTING FOAM
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: PRODUCT CONT W/WATER
Other Information: TANK #9 FUEL/ WATER
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

ARCO (Continued) **S100725892**

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	64-17-5
Name:	ETHYL ALCOHOL- DENATURED
Other Information:	ETHANOL
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	ETHYLENE GLYCOL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	FUEL ADDITIVE
Other Information:	PURADD(BENZENES)
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	8006-61-9
Name:	GASOLINE UNLEADED
Other Information:	TANK 2
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information:	WATER W/ GAS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	68476-30-2
Name:	DIESEL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	8006-61-9

ARCO (Continued) **S100725892**

Name: GASOLINE UNLEADED
Other Information: TANK 1
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: REACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 64742-65-0
Name: MOTOR OIL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV0142
Violation: DID NOT NOTIFY OF TIERED PERMITTING
Violation Citation: TIERED PERMITTING: Facility has failed to notify local CUPA and DTSC of eligible onsite treatment of hazardous waste. 25201(a)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3192
Violation: NO D.O INSPECTION/INCOMPL;NO REPORTS
Violation Citation: Designated Operator monthly inspection not conducted or incomplete; or DO inspection reports not onsite 2715 (c)(d)(e)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 05/31/2005
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3164

ARCO (Continued) **S100725892**

Violation: MONITOR EQUIP NOT PER MANUF. SPECS
Violation Citation: All monitoring equipment not installed, calibrated, operated, and/or maintained per manufacturer instructions. 2638(a), 2641(j)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 05/31/2005
Violation Code: 6HV0215
Violation: OIL FILTERS IMPROPERLY MANAGED
Violation Citation: Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3103
Violation: NO UST PLAN CHECK PERMIT OBTAINED
Violation Citation: UST repair/modify/closure permit not obtained .68.1004, 68.1005, 68.1009.5
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 04/09/2003
Violation Code: 6HV3110
Violation: NO ANNUAL CERT OF ATG AND SENSORS
Violation Citation: Annual certification for ATG and/or sensors not completed (existing tank systems only). 2641(j), 2638
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV0234
Violation: FACILITY NOT OPERATED TO MINIM. RELEASE
Violation Citation: Did not maintain &/or operate facility to prevent release or fire. CFR 265.31
Activity: ACTIVE

Facility Id: 102375
Business Type: 6HK78
EPA Id Number: CAD000633271
APN: 538-770-02-00
Last HMMD Inspection: 10/04/2010
Permit Status: OPEN
Permit Expiration: 01/31/2013
Facility Owner: BP WEST COAST PRODUCTS, LLC
Facility Address: 2295 E HARBOR DR
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92113-3636
UST Owner: ARCO PETROLEUM PRODUCTS
Handle Regulated Hazmat: Y
Own Or Operate UST: Y

ARCO (Continued) **S100725892**

Subject To APSA: Y
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:

UST Name: UNDERGROUND TANK 102375 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 102375
Tank Type: SINGLE WALL
Additional Id: Not reported
Capacity Gallons: 10000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1992-10-09 00:00:00
Year Installed: 1972-01-01 00:00:00
Pipe Type: Not reported
Delivery System: GRAVITY
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 102375 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 102375
Tank Type: SINGLE WALL
Additional Id: Not reported
Capacity Gallons: 2000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1992-10-09 00:00:00
Year Installed: 1969-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: GRAVITY
Monitor Code: 07
UST Monitor Method: SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 102375 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 102375
Tank Type: SINGLE WALL
Additional Id: GASOLINE & WATER
Capacity Gallons: 550
UST Contents: Not reported
Other Content Info: GASOLINE & WASTE OIL
Reg Status: REMOVED
Remove Close Date: 1992-10-09 00:00:00
Year Installed: 1969-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: GRAVITY
Monitor Code: 07
UST Monitor Method: SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

UST Name: UNDERGROUND TANK 102375 T004

ARCO (Continued) **S100725892**

Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	WATER DRAW
Capacity Gallons:	550
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1992-10-09 00:00:00
Year Installed:	1972-01-01 00:00:00
Pipe Type:	SINGLE WALL
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 102375 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	WASTE WATER
Capacity Gallons:	550
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1994-01-22 00:00:00
Year Installed:	1984-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	GRAVITY
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

UST Name:	UNDERGROUND TANK 102375 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	56
Capacity Gallons:	750
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	CLOSED
Remove Close Date:	1994-11-28 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 102375 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	DOUBLE WALL
Additional Id:	NT1806 PUMPBACK(MISC.FUEL PRODUCTS)/AT5270
Capacity Gallons:	868
UST Contents:	Not reported

ARCO (Continued) **S100725892**

Other Content Info:	PUMPBACK(MISC.FUEL PRODUCTS)
Reg Status:	REMOVED
Remove Close Date:	2006-11-29 00:00:00
Year Installed:	1994-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	16
UST Monitor Method:	DW TANK SW SUCTION PIPE: CONTINUOUS INTERSTITIAL MONITOR, PIPE TEST TRIENNIALLY
UST Name:	UNDERGROUND TANK 102375 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL
Additional Id:	NT1861
Capacity Gallons:	500
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1996-12-04 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 102375 T009
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	DOUBLE WALL
Additional Id:	NT1861 VAPOR RECOVERY/AT5270
Capacity Gallons:	1850
UST Contents:	Not reported
Other Content Info:	GASOLINE(TYPE UNKNOWN)
Reg Status:	CLOSED
Remove Close Date:	2006-11-29 00:00:00
Year Installed:	1996-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	SUCTION
Monitor Code:	16
UST Monitor Method:	DW TANK SW SUCTION PIPE: CONTINUOUS INTERSTITIAL MONITOR, PIPE TEST TRIENNIALLY
UST Name:	UNDERGROUND TANK 102375 T010
Last Update:	2012-11-02 14:17:38
Permit Number:	102375
Tank Type:	SINGLE WALL WITH INTERNAL BLAD
Additional Id:	STORM WATER /EMERGENCY CONTAINMENT
Capacity Gallons:	1500
UST Contents:	OTHER
Other Content Info:	WASTE WATER (FUEL & WATER)
Reg Status:	DEFICIENT
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	UNKNOWN
Delivery System:	GRAVITY

ARCO (Continued) **S100725892**

Monitor Code: 99
UST Monitor Method: OTHER - BLIND REMARK REQUIRED

Active Permits:

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: GASOLINE UNLEADED
Other Information: TANK 5
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: REACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information: VRU-ETHYLENE GLYCOL W/ETHANOL(D001)(D004)(D0018)
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: MIXTURE
Name: TRANMIX TANK 6
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: REACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: BIODIESEL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 7440-44-0
Name: CARBON
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

ARCO (Continued) **S100725892**

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	7727-37-9
Name:	NITROGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	TOLAD 3512 FUEL ADDITIVE BY BAKER HUGHS
Other Information:	CONDUCTIVITY IMPROVER ADDITIVE FOR DIESEL AND BIODIESEL
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information:	TANK DEBRIS, BLAST MEDIA
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	29385-43-1
Name:	AFFF, FIRE FIGHTING FOAM
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	PRODUCT CONT W/WATER
Other Information:	TANK #9 FUEL/ WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	64-17-5
Name:	ETHYL ALCOHOL- DENATURED
Other Information:	ETHANOL
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Facility Id:	102375
Update Date:	11/02/2012
Case Number:	107-21-1

ARCO (Continued) **S100725892**

Name: ETHYLENE GLYCOL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: MIXTURE
Name: FUEL ADDITIVE
Other Information: PURADD(BENZENES)
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: GASOLINE UNLEADED
Other Information: TANK 2
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information: WATER W/ GAS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 68476-30-2
Name: DIESEL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: GASOLINE UNLEADED
Other Information: TANK 1
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: REACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: 64742-65-0
Name: MOTOR OIL
Other Information: Not reported
Material Waste: Material

ARCO (Continued) **S100725892**

Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 102375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV0142
Violation: DID NOT NOTIFY OF TIERED PERMITTING
Violation Citation: TIERED PERMITTING: Facility has failed to notify local CUPA and DTSC of eligible onsite treatment of hazardous waste. 25201(a)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3192
Violation: NO D.O INSPECTION/INCOMPL;NO REPORTS
Violation Citation: Designated Operator monthly inspection not conducted or incomplete; or DO inspection reports not onsite 2715 (c)(d)(e)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 05/31/2005
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3164
Violation: MONITOR EQUIP NOT PER MANUF. SPECS
Violation Citation: All monitoring equipment not installed, calibrated, operated, and/or maintained per manufacturer instructions. 2638(a), 2641(j)
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 05/31/2005
Violation Code: 6HV0215
Violation: OIL FILTERS IMPROPERLY MANAGED
Violation Citation: Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130

ARCO (Continued) **S100725892**

Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV3103
Violation: NO UST PLAN CHECK PERMIT OBTAINED
Violation Citation: UST repair/modify/closure permit not obtained .68.1004, 68.1005, 68.1009.5
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 04/09/2003
Violation Code: 6HV3110
Violation: NO ANNUAL CERT OF ATG AND SENSORS
Violation Citation: Annual certification for ATG and/or sensors not completed (existing tank systems only). 2641(j), 2638
Activity: ACTIVE

Facility Id: 102375
Update Date: 11/02/2012
Inspection Date: 11/01/2006
Violation Code: 6HV0234
Violation: FACILITY NOT OPERATED TO MINIM. RELEASE
Violation Citation: Did not maintain &/or operate facility to prevent release or fire. CFR 265.31
Activity: ACTIVE

EMI:
Year: 1997
County Code: 37
Air Basin: SD
Facility ID: 201
Air District Name: SD
SIC Code: 5171
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 25
Reactive Organic Gases Tons/Yr: 25
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smllr Tons/Yr: 0

Year: 1998
County Code: 37
Air Basin: SD
Facility ID: 201
Air District Name: SD
SIC Code: 5171
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported

ARCO (Continued) **S100725892**

Total Organic Hydrocarbon Gases Tons/Yr:	21
Reactive Organic Gases Tons/Yr:	21
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

ARCO (Continued) **S100725892**

Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22
Reactive Organic Gases Tons/Yr:	22
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	21
Reactive Organic Gases Tons/Yr:	21
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	201
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	21.20002278
Reactive Organic Gases Tons/Yr:	21.20002278
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	201

ARCO (Continued) **S100725892**

Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	21.9
Reactive Organic Gases Tons/Yr:	21.9
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

SAN DIEGO CO. SAM:

Case Number:	H02375-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	11/20/2008
Date Began:	2/12/1992

Case Number:	H02375-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Closed Case
Date:	1/27/2010
Date Began:	9/10/1992

Case Number:	H02375-003
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Remedial Action (Clean-Up)
Date:	5/1/1998
Date Began:	11/22/1994

Case Number:	H02375-004
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Closed Case
Date:	1/27/2010
Date Began:	4/12/1996

Case Number:	H02375-005
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Closed Case
Date:	1/27/2010
Date Began:	8/7/1998

F48 **ARCO TERMINAL** **CA LUST** **S102424490**
East **2295 HARBOR DR E** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.197 mi.
1038 ft. **Site 6 of 8 in cluster F**

Relative: LUST REG 9:
Higher Region: 9
Status: Preliminary site assessment underway
Actual: Case Number: 9UT3030
33 ft. Local Case: H02375-003
Substance: Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Not reported
How Stopped: Not reported
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 11/22/1994
Date Stopped: 11/22/1994
Confirm Date: 01/06/1995
Submit Workplan: Not reported
Prelim Assess: 01/09/1995
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 01/05/1995
Enforce Date: 1/5/95
Closed Date: Not reported
Enforce Type: SEL
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: BUOC
NPDES Number: Not reported
Priority: Medium priority
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

F49 **ARCO GAS TERMINAL** **CA LUST** **S104494692**
East **2295 HARBOR DR E** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.197 mi.
1038 ft. **Site 7 of 8 in cluster F**

Relative: LUST REG 9:
Higher Region: 9
Status: Preliminary site assessment workplan submitted
Actual: Case Number: 9UT3986
33 ft. Local Case: H02375-005
Substance: Unleaded Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego

ARCO GAS TERMINAL (Continued) **S104494692**

How Found:	Other Means
How Stopped:	Other Means
Source:	Piping
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	08/07/1998
Date Stopped:	08/07/1998
Confirm Date:	08/17/1998
Submit Workplan:	10/5/99
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	08/17/1998
Enforce Date:	10/8/99
Closed Date:	Not reported
Enforce Type:	SEL
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	Not reported
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	Low priority. Priority ranking can change over time.
File Dispn:	Not reported
Interim Remedial Actions:	Not reported
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

G50 **EDR US Hist Auto Stat** **1015331405**
NE **2191 MAIN ST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.200 mi.
1056 ft. **Site 1 of 8 in cluster G**

Relative:
Higher

Actual:
44 ft.

EDR Historical Auto Stations:

Name:	CAR CONNECTIONS
Year:	1999
Address:	2191 MAIN ST
Name:	CAR CONNECTIONS
Year:	2000
Address:	2191 MAIN ST

G51 **SKYHOOK METAL DESIGNS** **CA SWEEPS UST** **S105539616**
NE **2191 MAIN ST** **CA San Diego Co. HMMD** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.200 mi.
1056 ft. **Site 2 of 8 in cluster G**

Relative:
Higher

Actual:
44 ft.

SWEEPS UST:

Status:	Not reported
Comp Number:	21488
Number:	Not reported
Board Of Equalization:	Not reported

SKYHOOK METAL DESIGNS (Continued) **S105539616**

Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-021488-000001
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

SAN DIEGO CO. HMMD:
Facility Id: 212624
Business Type: 6HK35
EPA Id Number: CAL000316924
APN: 538-680-03-00
Last HMMD Inspection: 08/30/2010
Permit Status: INAC
Permit Expiration: 11/30/2010
Facility Owner: PAUL E BELL
Facility Address: 2191 MAIN ST
Facility City: San Diego
Facility State: CA
Facility Zip: 92113
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Facility Id: 213045
Business Type: 6HK35
EPA Id Number: CAL000316924
APN: 538-680-03-00
Last HMMD Inspection: 03/26/2012
Permit Status: SUSP
Permit Expiration: 02/29/2012
Facility Owner: GAYE REINHOLD
Facility Address: 2191 MAIN ST
Facility City: San Diego
Facility State: CA
Facility Zip: 92113
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Active Permits:
Facility Id: 213045
Update Date: 11/02/2012

SKYHOOK METAL DESIGNS (Continued) **S105539616**

Case Number: 7782-44-7
Name: OXYGEN GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Facility Id: 213045
Update Date: 11/02/2012
Case Number: 7440-37-1
Name: ARGON GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

Facility Id: 213045
Update Date: 11/02/2012
Case Number: 124-38-9
Name: CARBON DIOXIDE GAS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: ACUTE

Facility Id: 213045
Update Date: 11/02/2012
Case Number: 68476-85-7
Name: PROPANE GAS -CYLINDER (1 GALLON OF PROPANE = 37 CF)
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Violations Active Permits:
Facility Id: 213045
Update Date: 11/02/2012
Inspection Date: 11/15/2010
Violation Code: 6HV0132
Violation: EPA ID NUMBER NOT OBTAINED/MAINTAINED
Violation Citation: Generator of hazardous waste has not obtained/maintained an EPA identification number. CCR 66262.12(a)
Activity: SUSP

Facility Id: 213045
Update Date: 11/02/2012
Inspection Date: 11/15/2010
Violation Code: 6HV1004
Violation: HMBP NOT SUBMITTED TO HMD
Violation Citation: Hazardous Materials Handler has not,submitted a completed Business Plan to the HMMD. HSC 25505(a)
Activity: SUSP

Facility Id: 121488
Business Type: 6HK03
EPA Id Number: Not reported

SKYHOOK METAL DESIGNS (Continued) **S105539616**

APN:	538-710-02-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	11/30/2002
Facility Owner:	SHREVE & HAYS
Facility Address:	2191 MAIN ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2232
UST Owner:	SHREVE & HAYS
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 121488 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	121488
Tank Type:	SINGLE WALL
Additional Id:	Not reported
Capacity Gallons:	4000
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	CLOSED
Remove Close Date:	1987-01-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

H52 **MAIN STREET YARD** **CA HIST UST** **U001572579**
NE **2141 MAIN ST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92101**
0.200 mi.
1057 ft. **Site 1 of 8 in cluster H**

Relative:
Higher

Actual:
44 ft.

HIST UST:

Region:	STATE
Facility ID:	00000063881
Facility Type:	Other
Other Type:	UTILITY
Total Tanks:	0000
Contact Name:	FLEET MAINTENANCE
Telephone:	6196962000
Owner Name:	SAN DIEGO GAS & ELECTRIC COMPA
Owner Address:	101 ASH STREET
Owner City,St,Zip:	SAN DIEGO, CA 92101
Tank Num:	001
Container Num:	801
Year Installed:	1965
Tank Capacity:	00006000

MAIN STREET YARD (Continued) **U001572579**

Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 802
Year Installed: 1970
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: None

H53 **SDG&E TANKS 801 & 802** **RCRA-SQG 1000137441**
NNE **2141 MAIN ST** **FINDS CAD982518250**
1/8-1/4 **SAN DIEGO, CA 92113**
0.201 mi.
1061 ft. **Site 2 of 8 in cluster H**

Relative:
Higher

Actual:
43 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: SDG&E TANKS 801 & 802
Facility address: 2141 MAIN ST
SAN DIEGO, CA 92102
EPA ID: CAD982518250
Mailing address: P O BOX 1831 /ENVIRONMENTAL
SAN DIEGO, CA 92112
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: SAN DIEGO GAS & ELECTRIC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported

SDG&E TANKS 801 & 802 (Continued) **1000137441**

Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/12/1990
Site name: SDG&E TANKS 801 & 802
Classification: Large Quantity Generator

Violation Status: No violations found

FINDS:

Registry ID: 110002839705

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

H54 **TANK #801 & #802 *** **CA HIST CORTESE** **S102438395**
NNE **2141 MAIN ST** **CA LUST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113** **CA SWEEPS UST**
0.201 mi. **CA San Diego Co. HMMD**
1061 ft. **Site 3 of 8 in cluster H** **CA SAN DIEGO CO. SAM**

Relative:
Higher

Actual:
43 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT439

LUST:
Region: STATE

TANK #801 & #802 * (Continued) **S102438395**

Global Id:	T0607302745
Latitude:	32.6963537
Longitude:	-117.1427911
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/13/1994
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT439
LOC Case Number:	H15419-001
File Location:	Local Agency
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607302745
Status:	Open - Case Begin Date
Status Date:	07/02/1986

Global Id:	T0607302745
Status:	Completed - Case Closed
Status Date:	10/13/1994

Regulatory Activities:

Global Id:	T0607302745
Action Type:	ENFORCEMENT
Date:	07/02/1986
Action:	Notice of Responsibility

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT439
Local Case:	H15419-001
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	EDIT
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Remove Contents
Source:	Tank
Cause:	Corrosion
Lead Agency:	Regional Board
Case Type:	Other ground water affected
Date Found:	07/02/1986
Date Stopped:	07/02/1986
Confirm Date:	07/02/1986
Submit Workplan:	Not reported
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	07/31/1987
Remed Action:	4/1/87

TANK #801 & #802 * (Continued) **S102438395**

Began Monitor: 10/1/90
Release Date: 06/24/1986
Enforce Date: 8/1/89
Closed Date: 4/29/93
Enforce Type: Cleanup and Abatement Orders
Pilot Program: UST
Basin Number: 908.22
GW Depth: 32'
Beneficial Use: NBNB/EISW
NPDES Number: Not reported
Priority: 3B
File Dispn: Not reported
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: 89-063
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 15419
Number: 9
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 15419
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-015419-000001
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 15419
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported

TANK #801 & #802 * (Continued) **S102438395**

Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-015419-000002
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

SAN DIEGO CO. HMMD:

Facility Id:	105871
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-710-06-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	Not reported
Facility Address:	Not reported
Facility City:	Not reported
Facility State:	Not reported
Facility Zip:	Not reported
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Facility Id:	115419
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-710-06-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	SAN DIEGO GAS & ELECTRIC COMPA
Facility Address:	P O BOX 1831
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92112-4150
UST Owner:	SAN DIEGO GAS & ELECTRIC COMPA
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 115419 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	115419
Tank Type:	SINGLE WALL

TANK #801 & #802 * (Continued) **S102438395**

Additional Id:	801
Capacity Gallons:	6000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 115419 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	115419
Tank Type:	SINGLE WALL
Additional Id:	802
Capacity Gallons:	500
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1970-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SAN DIEGO CO. SAM:

Case Number:	H15419-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	10/13/1994
Date Began:	7/2/1986

G55 **PACIFIC TREATMENT CORP** **RCRA-TSDF 1000249933**
NE **2190 MAIN ST** **CERC-NFRAP CAD095894556**
1/8-1/4 **SAN DIEGO, CA 92113** **CORRACTS**
0.202 mi. **RCRA-SQG**
1067 ft. **Site 3 of 8 in cluster G** **FINDS**

Relative:
Higher

Actual:
44 ft.

RCRA-TSDF:

Date form received by agency:	09/01/1996
Facility name:	PACIFIC TREATMENT CORP
Facility address:	2190 MAIN ST SAN DIEGO, CA 92113
EPA ID:	CAD095894556
Mailing address:	PO BOX 13626 SAN DIEGO, CA 92113
Contact:	Not reported
Contact address:	Not reported Not reported

PACIFIC TREATMENT CORP (Continued) **1000249933**

Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: TSDF
Description: Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:
Owner/operator name: PACIFIC TREATMENT CORP
Owner/operator address: PO BOX 13626
SAN DIEGO, CA 92113
Owner/operator country: Not reported
Owner/operator telephone: (619) 233-0424
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: PACIFIC TREATMENT CORP
Owner/operator address: PO BOX 13626
SAN DIEGO, CA 92113
Owner/operator country: Not reported
Owner/operator telephone: (619) 233-0424
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/31/1992
Site name: PACIFIC TREATMENT CORP. #1
Classification: Small Quantity Generator

Date form received by agency: 07/03/1990
Site name: PACIFIC TREATMENT CORP
Classification: Large Quantity Generator

PACIFIC TREATMENT CORP (Continued) **1000249933**

Date form received by agency: 02/24/1982
Site name: PACIFIC TREATMENT CORP
Classification: Large Quantity Generator

Corrective Action Summary:
Event date: 07/01/1988
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 07/01/1988
Event: CA029ST

Event date: 07/01/1988
Event: CA049PA

Event date: 07/28/1988
Event: RFA Completed, Assessment was an RFA.

Event date: 08/01/1988
Event: CA049SI

Event date: 01/01/1990
Event: CA029ST

Event date: 08/17/1992
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 08/17/1992
Event: Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.

Event date: Not reported
Event: CA03193

Facility Has Received Notices of Violations:
Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 11/23/1994
Date achieved compliance: 11/23/1994
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/23/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270

PACIFIC TREATMENT CORP (Continued) **1000249933**

Area of violation: TSD - General
Date violation determined: 10/24/1990
Date achieved compliance: 02/07/1991
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 12/06/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 41500
Paid penalty amount: 41500

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 10/24/1990
Date achieved compliance: 02/07/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/06/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 04/11/1990
Date achieved compliance: 07/23/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/23/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 03/12/1990
Date achieved compliance: 04/11/1990
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General

PACIFIC TREATMENT CORP (Continued) **1000249933**

Date violation determined: 10/31/1989
Date achieved compliance: 07/23/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/30/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 03/29/1989
Date achieved compliance: 03/31/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/22/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 03/22/1989
Date achieved compliance: 03/31/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 08/01/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268 ALL
Area of violation: LDR - General
Date violation determined: 03/22/1989
Date achieved compliance: 03/31/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/08/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 264.140-150.H
Area of violation: TSD - Financial Requirements
Date violation determined: 03/22/1989

PACIFIC TREATMENT CORP (Continued) **1000249933**

Date achieved compliance: 03/31/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/22/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/22/1989
Date achieved compliance: 03/31/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/08/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/22/1989
Date achieved compliance: 03/31/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 08/01/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 55150
Final penalty amount: 55150
Paid penalty amount: 55150

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 03/22/1989
Date achieved compliance: 03/31/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 08/01/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 268.7
Area of violation: LDR - General
Date violation determined: 03/22/1989
Date achieved compliance: 03/31/1989

PACIFIC TREATMENT CORP (Continued) **1000249933**

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/08/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 03/22/1989
Date achieved compliance: 03/31/1989
Violation lead agency: State
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 08/01/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 04/08/1988
Date achieved compliance: 11/29/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/08/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 08/06/1987
Date achieved compliance: 10/11/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/02/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: F - 270
Area of violation: TSD - General
Date violation determined: 01/14/1987
Date achieved compliance: 03/19/1987
Violation lead agency: State

PACIFIC TREATMENT CORP (Continued) **1000249933**

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 270
Area of violation: TSD - General
Date violation determined: 01/14/1987
Date achieved compliance: 08/06/1987
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 10/12/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/23/1994
Evaluation lead agency: State

Evaluation date: 11/25/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 10/24/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 02/07/1991
Evaluation lead agency: State

Evaluation date: 10/02/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/11/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 07/23/1990
Evaluation lead agency: State

Evaluation date: 03/13/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported

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PACIFIC TREATMENT CORP (Continued) **1000249933**

Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/12/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/11/1990
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 10/31/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 07/23/1990
Evaluation lead agency: State

Evaluation date: 06/18/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/29/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/22/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 03/31/1989
Evaluation lead agency: State

Evaluation date: 03/22/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: LDR - General
Date achieved compliance: 03/31/1989
Evaluation lead agency: State

Evaluation date: 03/22/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/22/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 03/31/1989
Evaluation lead agency: State

Evaluation date: 12/20/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

PACIFIC TREATMENT CORP (Continued) **1000249933**

Evaluation date: 04/13/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/08/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/29/1988
Evaluation lead agency: State

Evaluation date: 04/08/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/21/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 08/06/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/06/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 10/11/1987
Evaluation lead agency: State

Evaluation date: 01/14/1987
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 08/06/1987
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 01/14/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 03/19/1987
Evaluation lead agency: State

CERC-NFRAP:
Site ID: 0900179
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13288092.00000
Person ID: 13003854.00000

PACIFIC TREATMENT CORP (Continued) **1000249933**

Contact Sequence ID: 13293687.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299545.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral Audit

Description: RCRA Deferral - Lead Confirmed

Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:
Action: RESOURCE CONSERVATION AND RECOVERY ACT FACILITY ASSESSMENT
Date Started: / /
Date Completed: 08/01/88
Priority Level: Not reported

Action: SITE INSPECTION
Date Started: / /
Date Completed: 08/01/88
Priority Level: Deferred to RCRA (Subtitle C)

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 07/01/88
Priority Level: Deferred to RCRA (Subtitle C)

Action: DISCOVERY
Date Started: / /
Date Completed: 03/01/88
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

CORRACTS:

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19880801
Action: CA049SI
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19900101
Action: CA029ST

PACIFIC TREATMENT CORP (Continued) **1000249933**

NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19880701
Action: CA049PA
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19880701
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19880701
Action: CA029ST
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19920817
Action: CA225NR - Stabilization Measures Evaluation, This facility is, not amenable to stabilization activity at the, present time for reasons other than (1) it appears to be technically, infeasible or inappropriate (NF) or (2) there is a lack of technical, information (IN). Reasons for this conclusion may be the status of, closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other, administrative considerations
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19920817
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

PACIFIC TREATMENT CORP (Continued) **1000249933**

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19880728
Action: CA050RF - RFA Completed, Assessment was an RFA
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD095894556
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: Not reported
Action: CA03193
NAICS Code(s): Not reported
Original schedule date: 19931001
Schedule end date: Not reported

FINDS:

Registry ID: 110002664830

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

G56 **PACIFIC TREATMENT** **TX Ind. Haz Waste** **S102746289**
NE **2190 MAIN ST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.202 mi.
1067 ft. **Site 4 of 8 in cluster G**

Relative:
Higher

Actual:
44 ft.

Ind. Haz Waste:
Transporters Registration Number: 40957
Registration Initial Notification Date: 09/12/1986
Registration Last Amendment Date: 10/23/2003
EPA Identification: CAD095894556
Primary NAICS Code: 484121
Status Change Date: 19860912
Land Type: Not reported
Description of Facility Site Location: Not reported
Site Primary Standard Industrial Code: Not reported
Site Primary SIC Description: Not reported
Registration is Generator of Waste: No
Registration is Receivers of Waste: No
Registration is Transporter of Waste: Yes
Registration is Transfer Facility: No
Facility is STEERS Reporter: No
Reqired to Submit Annual Waste Summary: No
Facility Involved In Recycling: No
Revcr Has Monthly Reporting Requirement: 0
Mexican Facility: Not reported

PACIFIC TREATMENT (Continued) **S102746289**

Type of Generator:	Not reported
TNRCC Region:	Not reported
Company Name:	PACIFIC TREATMENT CORP
Contact Name:	MICHAEL H DONLEY
Contact Telephone Number:	619-2330424
Mailing Address:	2190 MAIN ST
Mailing Address2:	Not reported
Mailing City,St,Zip:	SAN DIEGO, CA 921132218
Mailing County:	UNITED STATES
Facility Country:	UNITED STATES
TNRCC Facility ID:	17358
Site Owner Tax ID:	0
Site Location Latitude:	-00.000
Site Location Longitude:	-000.000
Last Update to NOR Data:	20040519
Ind. waste permit Number:	Not reported
Mun waste permit Number:	Not reported
Non Notifier:	No
Business Desc:	10/23/2003-inactivated due to return mail. cw

Owner:

Owner Mailing Address:	PO BOX 13626
Owner Mailing Address2:	Not reported
Owner Mailing Address3:	Not reported
Owner City,St,Zip:	SAN DIEGO, CA 92170 3626
Owner Country:	UNITED STA
Owner Phone Number:	1-619-2330424
Owner Fax Number:	Not reported
Owner Email Address:	Not reported
Owner Business Type:	Unknown
Owner Tax Id:	Not reported
Owner Bankruptcy Code:	Not reported

Operator:

Operator Last Name:	PACIFIC TREATMENT CORP
Operator First Name:	Not reported
Operator Name:	PACIFIC TREATMENT CORP
Operator Mailing Address:	PO BOX 13626
Operator Mailing Address 2:	Not reported
Operator Mailing City,St,Zip:	SAN DIEGO, CA 92170 3626
Operator Country:	UNITED STA
Operator Phone:	1-619-2330424
Operator Fax:	Not reported
Operator Email:	Not reported
Operator Business Type:	Unknown
Operator Tax Id:	Not reported
Operator Bankruptcy Code:	Not reported

Contact:

Contact Name:	Not reported
Contact Title:	Not reported
Contact Role:	OWNCON
Contact Address:	PO BOX 13626
Contact Address2:	Not reported
Conact City,St,Zip:	SAN DIEGO, CA 92170 3626
Contact Phone:	1-619-2330424
Contact Fax:	Not reported
Contact Email:	Not reported

PACIFIC TREATMENT (Continued) **S102746289**

Contact:
- Contact Name: MICHAEL DONLEY
- Contact Title: ENV MGR
- Contact Role: PRICONT
- Contact Address: 2190 MAINST
- Contact Address2: Not reported
- Conact City,St,Zip: SAN DIEGO, CA 92113 2218
- Contact Phone: 1-619-2330424
- Contact Fax: Not reported
- Contact Email: Not reported

Contact:
- Contact Name: Not reported
- Contact Title: Not reported
- Contact Role: OPRCON
- Contact Address: PO BOX 13626
- Contact Address2: Not reported
- Conact City,St,Zip: SAN DIEGO, CA 92170 3626
- Contact Phone: 1-619-2330424
- Contact Fax: Not reported
- Contact Email: Not reported

Unit Records Not Found for this RegNo/Year:

One Time Shipper Records Not Found for this RegNo/Year:
- Receiver Type: Not reported
- Transporter for hire: 1
- Transport own waste: 0
- Eq 01, if transport waste type = 1: Not reported
- Eq 02, if transport waste type = 2: Not reported
- Eq 03, if transport waste type = 3: Not reported
- Eq 04, if transport waste type = H: Not reported
- Target TCEQ unique facid for discarded(merged) facility: Not reported

Waste Records Not Found for this RegNo/Year:

G57 **CLEANING DYNAMICS/PACIFIC TREATMENT CORP** **CA HIST CORTESE** **S100232926**
NE **2190 MAIN STREET** **CA LUST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113** **CA ENVIROSTOR**
0.202 mi.
1067 ft. **Site 5 of 8 in cluster G**

Relative:
Higher

Actual:
44 ft.

HIST CORTESE:
- Region: CORTESE
- Facility County Code: 37
- Reg By: LTNKA
- Reg Id: 9UT132

LUST:
- Region: STATE
- Global Id: T0607300187
- Latitude: 32.6961548512614
- Longitude: -117.141962349415
- Case Type: LUST Cleanup Site
- Status: Open - Remediation
- Status Date: 09/27/1995
- Lead Agency: SAN DIEGO COUNTY LOP
- Case Worker: LA
- Local Agency: SAN DIEGO COUNTY LOP

CLEANING DYNAMICS/PACIFIC TREATMENT CORP (Continued) **S100232926**

RB Case Number:	9UT132
LOC Case Number:	H01225-001
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Gasoline, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	The site was operated as a gasoline service station between 1946 and 1968. Between 1968 and 1978 several tenants occupied the site including UPS, a dairy business, and an automobile repair trade school. From 1978 to 1985 a marine industrial tank cleaning operation occupied the site which included chemical storage areas, an oil/water separator, a paint booth and a truck washing area. Pacific Treatment occupied the site until 1992 storing and treating hazardous waste. In 1986, two 10,000 gallon and two 4,000 gallon underground storage tanks (USTs) were removed from the site. The USTs were reported installed in 1946 and an apparent release was observed during the UST removal activities. Numerous borings and monitoring wells were installed at the site over the next 20 or so years in attempts to delineate hydrocarbon-impacted soil and groundwater related to the USTs and in an effort to close the Department of Toxic Substances Control (DTSC) case related to past waste treatment activities. An additional 550 gallon waste oil UST was discovered during this work in the northern portion of the site. DTSC granted conditional site closure for the waste treatment portion of the case, but work remained on the fuel UST portion of the site. Site closure was requested on several occasions, citing a stable and degrading LPH plume and that LPH had been removed to the extent practicable by hand bailing. As noted by DEH, excessive amounts of LPH existed at the site, historically over four feet has been observed. Until significant effort has been made to remove LPH, DEH will not consider this site for closure.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300187
Contact Type:	Local Agency Caseworker
Contact Name:	LAURIE APECECHEA
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	laurie.apecechea@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607300187
Status:	Open - Case Begin Date
Status Date:	05/30/1986
Global Id:	T0607300187
Status:	Open - Remediation
Status Date:	09/27/1995

Regulatory Activities:

Global Id:	T0607300187
Action Type:	ENFORCEMENT
Date:	05/19/2010
Action:	Technical Correspondence / Assistance / Other

CLEANING DYNAMICS/PACIFIC TREATMENT CORP (Continued) **S100232926**

Global Id: T0607300187
Action Type: RESPONSE
Date: 08/14/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 09/10/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 11/06/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: RESPONSE
Date: 09/01/2009
Action: Pilot Study/ Treatability Report

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 07/09/2009
Action: Letter - Notice

Global Id: T0607300187
Action Type: RESPONSE
Date: 01/18/2012
Action: Monitoring Report - Quarterly

Global Id: T0607300187
Action Type: RESPONSE
Date: 08/02/2010
Action: Pilot Study / Treatability Workplan

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 09/01/1993
Action: Notice of Responsibility

Global Id: T0607300187
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607300187
Action Type: RESPONSE
Date: 01/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 02/07/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: ENFORCEMENT

CLEANING DYNAMICS/PACIFIC TREATMENT CORP (Continued) **S100232926**

Date: 02/05/2013
Action: Meeting

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 08/28/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 11/25/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: RESPONSE
Date: 12/30/2009
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 11/27/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 01/11/2010
Action: File review

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 03/12/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: RESPONSE
Date: 04/24/2013
Action: Monitoring Report - Quarterly

Global Id: T0607300187
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607300187
Action Type: RESPONSE
Date: 07/14/2011
Action: Pilot Study/ Treatability Report - Regulator Responded

Global Id: T0607300187
Action Type: RESPONSE
Date: 11/01/2011
Action: Clean Up Fund - 5-Year Review Summary - Regulator Responded

Global Id: T0607300187
Action Type: RESPONSE
Date: 12/05/2011
Action: Interim Remedial Action Plan - Regulator Responded

CLEANING DYNAMICS/PACIFIC TREATMENT CORP (Continued) **S100232926**

Global Id: T0607300187
Action Type: RESPONSE
Date: 06/15/2012
Action: Well Installation Report - Regulator Responded

Global Id: T0607300187
Action Type: RESPONSE
Date: 07/30/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 05/08/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 08/16/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: REMEDIATION
Date: 01/01/1950
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0607300187
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 11/06/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 03/30/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0607300187
Action Type: RESPONSE
Date: 09/18/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607300187
Action Type: RESPONSE
Date: 10/28/2013
Action: Monitoring Report - Quarterly

Global Id: T0607300187
Action Type: ENFORCEMENT

CLEANING DYNAMICS/PACIFIC TREATMENT CORP (Continued) **S100232926**

Date: 10/22/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: ENFORCEMENT
Date: 10/10/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300187
Action Type: RESPONSE
Date: 04/09/2013
Action: Pilot Study / Treatability Workplan - Regulator Responded

Global Id: T0607300187
Action Type: RESPONSE
Date: 10/04/2013
Action: Remedial Progress Report - Regulator Responded

Global Id: T0607300187
Action Type: RESPONSE
Date: 12/17/2013
Action: Other Workplan - Regulator Responded

LUST REG 9:
Region: 9
Status: Remedial action (cleanup) Underway
Case Number: 9UT132
Local Case: H01225-001
Substance: Diesel
Qty Leaked: 55
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Corrosion
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 05/30/1986
Date Stopped: 05/30/1986
Confirm Date: 05/30/1986
Submit Workplan: Not reported
Prelim Assess: 08/31/1993
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: 1/23/87
Began Monitor: Not reported
Release Date: 05/30/1986
Enforce Date: 9/1/93
Closed Date: Not reported
Enforce Type: SEL
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported

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CLEANING DYNAMICS/PACIFIC TREATMENT CORP (Continued) **S100232926**

Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

ENVIROSTOR:
Facility ID: 37420008
Status: Refer: RCRA
Status Date: 08/21/1995
Site Code: 600268
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 80
Senate: 40
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 32.69619
Longitude: -117.1419
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: * HALOGENATED ORGANIC COMPOUNDS * HALOGENATED SOLVENTS * HYDROCARBON SOLVENTS * Metals - Sludge * OIL/WATER SEPARATION SLUDGE * CONTAMINATED SOIL * Sludge - Sewage * TANK BOTTOM WASTES * UNSPECIFIED ACID SOLUTION * UNSPECIFIED OIL CONTAINING WASTE * UNSPECIFIED SOLVENT MIXTURES * WASTE OIL & MIXED OIL * AQUEOUS SOLUTION 2<PH<12.5, WITH REACTIVE ANIONS Lead Cadmium and compounds Chromium VI Nickel
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD095894556
Alias Type: EPA Identification Number
Alias Name: 600268
Alias Type: Project Code (Site Code)
Alias Name: 37420008
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 04/20/1983
Comments: FACILITY IDENTIFIED VIA S.D. METRO. INDUSTRIAL WASTE DIV.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/27/1994

CLEANING DYNAMICS/PACIFIC TREATMENT CORP (Continued) **S100232926**

Comments: Site Closure Plan approved on 09/17/1991, undergoing closure oversight. Facility will submit workplan for arsenic contamination removal and HRA in 94/95. According to AWP, closure to be completed in 94/95 FY. Staff recommends NFA for Site Mitigation Branch.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/19/1988
Comments: E&E REVIEW OF DHS PA RECOMMENDS NFA FOR EPA DUE TO NO GROUNDWATER TARGETS. DTSC STATUS NEEDS TO BE DETERMINED.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 05/23/1988
Comments: SITE SCREENING DONE DHS RECOMMENDATION: PENDING STATUS THE FACILITY IS CURRENTLY REGULATED BY STATE DHS AS A HAZ WASTE TSD FACILITY AND SHOULD CONTINUE ROUTINE TSD INSPECT. CONTINUED ENFORCEMENT BY THE SURVEILL - AND ENFORCEMENT UNIT IS RECOMMENDED.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 03/01/1988
Comments: PRELIM ASSESS DONE SI MED RECOMMENDED TO CHECK FOR THE EVIDENCE OF CONTAMINATION

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 09/26/1986
Comments: SITE SCREENING DONE RATIONALE FOR PA: OBVIOUS SIGNS OF HAZ WASTE SPILLAGE; EXTENT OF CONTAM REQ.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

G58 **PACIFIC TREATMENT DIVISION** **CA SWEEPS UST** **S106930431**
NE **2190 MAIN ST 1** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.202 mi.
1067 ft. **Site 6 of 8 in cluster G**

Relative: **Higher**

Actual: **44 ft.**

SWEEPS UST:
Status: Active
Comp Number: 1225
Number: 9
Board Of Equalization: 44-021602
Referral Date: Not reported
Action Date: 06-26-92

PACIFIC TREATMENT DIVISION (Continued) **S106930431**

Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1225
Number: Not reported
Board Of Equalization: 44-021602
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-001225-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: 5

Status: Not reported
Comp Number: 1225
Number: Not reported
Board Of Equalization: 44-021602
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-001225-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1225
Number: Not reported
Board Of Equalization: 44-021602
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-001225-000003
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported

PACIFIC TREATMENT DIVISION (Continued) **S106930431**

Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	1225
Number:	Not reported
Board Of Equalization:	44-021602
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-001225-000004
Tank Status:	Not reported
Capacity:	4000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	1225
Number:	Not reported
Board Of Equalization:	44-021602
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-001225-000005
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

G59 **AMERICAN KELP** **CA San Diego Co. HMMD** **S106059746**
NE **2190 MAIN ST** **CA SAN DIEGO CO. SAM** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.202 mi.
1067 ft. **Site 7 of 8 in cluster G**

Relative:
Higher

Actual:
44 ft.

SAN DIEGO CO. HMMD:

Facility Id:	101225
Business Type:	6HK26
EPA Id Number:	Not reported
APN:	538-680-03-00
Last HMMD Inspection:	08/11/1998
Permit Status:	INAC
Permit Expiration:	10/31/2000
Facility Owner:	RICHARD PESTA
Facility Address:	P O BOX 370178
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92137-0178

AMERICAN KELP (Continued) **S106059746**

UST Owner:	CLEANING DYNAMICS
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 101225 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	101225
Tank Type:	SINGLE WALL
Additional Id:	AT0255-1
Capacity Gallons:	10000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1987-01-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 101225 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	101225
Tank Type:	SINGLE WALL
Additional Id:	AT0255-2
Capacity Gallons:	10000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1987-01-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 101225 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	101225
Tank Type:	SINGLE WALL
Additional Id:	AT0255-3
Capacity Gallons:	4000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1987-01-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING

AMERICAN KELP (Continued) **S106059746**

ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 101225 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	101225
Tank Type:	SINGLE WALL
Additional Id:	AT0255-4
Capacity Gallons:	4000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1987-01-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 101225 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	101225
Tank Type:	UNKNOWN
Additional Id:	AT2473
Capacity Gallons:	550
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1991-12-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SAN DIEGO CO. SAM:

Case Number:	H01225-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Remedial Investigation
Date:	8/3/2003
Date Began:	5/30/1986

Case Number:	H01225-002
Agency:	CA Department of Toxic Substance Control
Funding:	**Non Billable**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	8/20/1991
Date Began:	5/30/1986

H60 **PACIFIC TREATMENT CORP** **CA San Diego Co. HMMD** **S100941780**
NNE **2146 MAIN ST** **CA ENVIROSTOR** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113** **CA HWP**
0.202 mi.
1069 ft. **Site 4 of 8 in cluster H**

Relative:
Higher

Actual:
44 ft.

SAN DIEGO CO. HMMD:

Facility Id:	102608
Business Type:	6HK70
EPA Id Number:	CAD980886360
APN:	538-680-02-00
Last HMMD Inspection:	03/20/2007
Permit Status:	INAC
Permit Expiration:	02/28/2006
Facility Owner:	EMERY FERGUSON
Facility Address:	2146 MAIN ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2218
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Facility Id:	217024
Business Type:	6HK70
EPA Id Number:	CAL000352412
APN:	538-680-02-00
Last HMMD Inspection:	09/10/2012
Permit Status:	OPEN
Permit Expiration:	07/31/2013
Facility Owner:	COASTAL COATINGS INC
Facility Address:	PO BOX 13190
Facility City:	San Diego
Facility State:	CA
Facility Zip:	92170
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Active Permits:

Facility Id:	217024
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Facility Id:	217024
Update Date:	11/02/2012
Case Number:	Not reported

PACIFIC TREATMENT CORP (Continued) **S100941780**

Name: WASTE 461 PAINT SLUDGE
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 217024
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 217024
Update Date: 11/02/2012
Case Number: 68476-34-6
Name: DIESEL FUEL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Facility Id: 217024
Update Date: 11/02/2012
Case Number: Not reported
Name: OIL BASE PAINTS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: CHRONIC

Facility Id: 217024
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: USED OIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 217024
Update Date: 11/02/2012
Case Number: Not reported
Name: PAINT THINNER
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 217024
Update Date: 11/02/2012
Case Number: Not reported
Name: IRON-CALCIUM SILICATE VITREOUS SMELTER SLAG
Other Information: Not reported
Material Waste: Material

PACIFIC TREATMENT CORP (Continued) **S100941780**

Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Facility Id: 217024
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 444 USED BATTERIES
Other Information: USED LEAD ACID BATTERIES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:

Facility Id: 217024
Update Date: 11/02/2012
Inspection Date: 09/10/2012
Violation Code: 6HV0226
Violation: HW NOT ACCUMULATED IN TANK/CONTAINER
Violation Citation: Did not accumulate waste in container or tank. 66262.34 (d)(2)
Activity: ACTIVE

Facility Id: 217024
Update Date: 11/02/2012
Inspection Date: 09/10/2012
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Facility Id: 217024
Update Date: 11/02/2012
Inspection Date: 09/10/2012
Violation Code: 6HV1001
Violation: NO UPF PERMIT FOR HAZMATS
Violation Citation: A Unified Program Facility permit has not been obtained for hazardous materials. 68.905
Activity: ACTIVE

Facility Id: 217024
Update Date: 11/02/2012
Inspection Date: 09/10/2012
Violation Code: 6HV0215
Violation: OIL FILTERS IMPROPERLY MANAGED
Violation Citation: Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity: ACTIVE

Facility Id: 217024
Update Date: 11/02/2012
Inspection Date: 09/10/2012
Violation Code: 6HV1002
Violation: HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation: Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity: ACTIVE

PACIFIC TREATMENT CORP (Continued) **S100941780**

Facility Id:	217024
Update Date:	11/02/2012
Inspection Date:	09/10/2012
Violation Code:	6HV0131
Violation:	UPF Permit NOT OBTAINED for HAZWASTE
Violation Citation:	A Unified Program Facility permit has not been obtained for the generation of hazardous waste. 68.905
Activity:	ACTIVE

Facility Id:	217024
Update Date:	11/02/2012
Inspection Date:	09/10/2012
Violation Code:	6HV0228
Violation:	CONTAINER NOT KEPT CLOSED
Violation Citation:	Failed to keep container closed. CFR 265.173
Activity:	ACTIVE

Facility Id:	208895
Business Type:	6HK26
EPA Id Number:	Not reported
APN:	538-680-02-00
Last HMMD Inspection:	04/23/2009
Permit Status:	INAC
Permit Expiration:	04/30/2010
Facility Owner:	ALEXANDRA INVESTMENTS INC
Facility Address:	2146 MAIN ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

ENVIROSTOR:

Facility ID:	80001718
Status:	Inactive - Needs Evaluation
Status Date:	11/10/2010
Site Code:	Not reported
Site Type:	Corrective Action
Site Type Detailed:	Corrective Action
Acres:	0
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	WM
Program Manager:	Ju-Tseng Liu
Supervisor:	* Unknown
Division Branch:	Cleanup Cypress
Assembly:	80
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED

PACIFIC TREATMENT CORP (Continued) **S100941780**

Funding: Not reported
Latitude: 32.69604
Longitude: -117.1418
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD095894556
Alias Type: EPA Identification Number
Alias Name: 80001718
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Interim Measures Questionnaire
Completed Date: 08/17/1992
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 08/01/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 07/01/1988
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 02/04/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RCRA Facility Assessment Report
Completed Date: 07/28/1988
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

HWP:
EPA Id: CAD095894556
Cleanup Status: CLOSED

PACIFIC TREATMENT CORP (Continued) **S100941780**

Latitude: 32.69604
Longitude: -117.1418
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: N/A
Assembly District: 80
Senate District: 40
Public Information Officer: Not reported

Activities:

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: Renewal - Historical - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 07/26/1990

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 05/03/1984

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - PUBLIC COMMENT (BEGIN)
Actual Date: 11/25/1985

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: Renewal - Historical - APPLICATION PART B RECEIVED
Actual Date: 01/16/1990

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - FINAL PERMIT (EFFECTIVE)
Actual Date: 01/31/1986

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 03/19/1984

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - FINAL PERMIT
Actual Date: 01/31/1986

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: New Operating Permit - FINAL PERMIT (EXPIRES)

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PACIFIC TREATMENT CORP (Continued) **S100941780**

Actual Date: 01/31/1991

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: Renewal - Historical - FINAL PERMIT RENEWAL - WITHDRAWAL REQUEST RECEIVED
Actual Date: 06/07/1990

Closure:
EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 01/31/1996

EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 12/22/1995

Alias:
EPA Id: CAD095894556
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: N/A

H61 **CLEANING DYNAMICS CORP** **RCRA NonGen / NLR 1000256323**
NNE **2146 MAIN ST** **FINDS CAD121705354**
1/8-1/4 **SAN DIEGO, CA 92113**
0.202 mi.
1069 ft. **Site 5 of 8 in cluster H**

Relative: Higher

Actual: 44 ft.

RCRA NonGen / NLR:
Date form received by agency: 08/26/1986
Facility name: MARINE BARGE SERVICES INC
Facility address: 2146 MAIN ST
SAN DIEGO, CA 92113
EPA ID: CAD121705354
Mailing address: MAIN ST
SAN DIEGO, CA 92113
Contact: ENVIRONMENTAL MANAGER
Contact address: 2146 MAIN ST
SAN DIEGO, CA 92113
Contact country: US
Contact telephone: (619) 233-0863
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999

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CLEANING DYNAMICS CORP (Continued) **1000256323**

Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: MARINE BARGE SER INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110009533629

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110002668113

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

H62 **MARINE BARGE SERVICES INC** **RCRA NonGen / NLR** **1000256329**
NNE **2146 MAIN ST** **CAD981396260**
1/8-1/4 **SAN DIEGO, CA 92113**
0.202 mi.
1069 ft. **Site 6 of 8 in cluster H**

Relative:
Higher

Actual:
44 ft.

RCRA NonGen / NLR:

Date form received by agency:	04/21/1986
Facility name:	MARINE BARGE SERVICES INC
Facility address:	2146 MAIN ST SAN DIEGO, CA 92113
EPA ID:	CAD981396260
Mailing address:	MAIN ST SAN DIEGO, CA 92113
Contact:	ENVIRONMENTAL MANAGER
Contact address:	2146 MAIN ST SAN DIEGO, CA 92113
Contact country:	US
Contact telephone:	(619) 233-0863
Contact email:	Not reported
EPA Region:	09
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	MARINE BARGE SERVICES
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No

MARINE BARGE SERVICES INC (Continued) **1000256329**

Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

H63 **CLEANING DYNAMICS CORP** **CERC-NFRAP 1000152621**
NNE **2146 MAIN ST** **RCRA-SQG CAD980886360**
1/8-1/4 **SAN DIEGO, CA 92113**
0.202 mi.
1069 ft. **Site 7 of 8 in cluster H**

Relative:
Higher

Actual:
44 ft.

CERC-NFRAP:
Site ID: 0900048
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13288525.00000
Person ID: 13003854.00000

Contact Sequence ID: 13294120.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299978.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 12/01/87
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 11/10/88
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT.
Date Started: / /
Date Completed: 11/10/88
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: CLEANING DYNAMICS CORP
Facility address: 2146 MAIN ST
SAN DIEGO, CA 92113
EPA ID: CAD980886360
Mailing address: PO BOX 13567
SAN DIEGO, CA 92113
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported

CLEANING DYNAMICS CORP (Continued) **1000152621**

Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 08/06/1985
Site name: CLEANING DYNAMICS CORP
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.10-12.A

CLEANING DYNAMICS CORP (Continued) **1000152621**

Area of violation: Generators - General
Date violation determined: 06/06/1986
Date achieved compliance: 06/06/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 06/06/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 06/06/1986
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 06/06/1991
Evaluation lead agency: State Contractor/Grantee

H64 **EDR US Hist Auto Stat** **1015326762**
NNE **2146 MAIN ST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.202 mi.
1069 ft. **Site 8 of 8 in cluster H**

Relative:
Higher

Actual:
44 ft.

EDR Historical Auto Stations:
Name: ANGELOS AUTO TOWING
Year: 2010
Address: 2146 MAIN ST

G65 **SOUTHWEST MARINE** **CA LUST** **S101302201**
NE **2201-2399 MAIN ST** **CA SWEEPS UST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.203 mi.
1071 ft. **Site 8 of 8 in cluster G**

Relative:
Higher

Actual:
44 ft.

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT1912
Local Case: H22821-001
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency: San Diego
How Found: Other Means
How Stopped: Other Means
Source: Unknown
Cause: Unknown

SOUTHWEST MARINE (Continued) **S101302201**

Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	02/01/1991
Date Stopped:	02/01/1991
Confirm Date:	02/01/1991
Submit Workplan:	Not reported
Prelim Assess:	01/31/1991
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	02/01/1991
Enforce Date:	Not reported
Closed Date:	11/3/98
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	~26'
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	No
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	22821
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	22821
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-022821-000001
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL

SOUTHWEST MARINE (Continued) **S101302201**

STG: PRODUCT
Content: OTHER
Number Of Tanks: 1

I66 **EDR US Hist Auto Stat** **1015317869**
NNE **2094 MAIN ST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.215 mi.
1136 ft. **Site 1 of 2 in cluster I**

Relative:
Higher

Actual:
42 ft.

EDR Historical Auto Stations:
Name: SOUTH PARK AUTO REPAIR & SERVICE
Year: 2009
Address: 2094 MAIN ST

F67 **CHEVRON USA INC.** **CA LUST** **S104574079**
East **2351 E HARBOR DR** **CA SLIC** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.229 mi.
1207 ft. **Site 8 of 8 in cluster F**

Relative:
Higher

Actual:
32 ft.

LUST:

Region:	STATE
Global Id:	T0607300019
Latitude:	32.6926312
Longitude:	-117.1394632
Case Type:	LUST Cleanup Site
Status:	Open - Remediation
Status Date:	10/11/1988
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	CH
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT0015
LOC Case Number:	H03791-001
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel, Gasoline
Site History:	Soil contamination was noted during the removal of a 1,000 gallon used oil underground storage tank March 1987. Free product was detected in monitoring wells in 1988. See Environmental Data Tab for additional information.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300019
Contact Type:	Local Agency Caseworker
Contact Name:	COLLEEN HINES
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	SAN DIEGO
Email:	colleen.hines@sdcounty.ca.gov
Phone Number:	8585056874

Status History:

Global Id:	T0607300019

CHEVRON USA INC. (Continued) **S104574079**

Status: Open - Remediation
Status Date: 10/11/1988

Global Id: T0607300019
Status: Open - Case Begin Date
Status Date: 03/30/1987

Regulatory Activities:
Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 05/19/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300019
Action Type: RESPONSE
Date: 04/30/2014
Action: Monitoring Report - Semi-Annually - Regulator Responded

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 11/07/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300019
Action Type: RESPONSE
Date: 10/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607300019
Action Type: RESPONSE
Date: 03/18/2014
Action: Well Destruction Report

Global Id: T0607300019
Action Type: RESPONSE
Date: 02/03/2010
Action: Remedial Progress Report

Global Id: T0607300019
Action Type: RESPONSE
Date: 10/30/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0607300019
Action Type: RESPONSE
Date: 07/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0607300019
Action Type: RESPONSE
Date: 04/30/2009
Action: Monitoring Report - Quarterly

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 07/08/2009
Action: Letter - Notice

CHEVRON USA INC. (Continued) **S104574079**

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 03/30/1987
Action: Notice of Responsibility

Global Id: T0607300019
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607300019
Action Type: RESPONSE
Date: 04/30/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607300019
Action Type: RESPONSE
Date: 04/30/2010
Action: Remedial Progress Report

Global Id: T0607300019
Action Type: RESPONSE
Date: 07/30/2010
Action: Remedial Progress Report

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 01/05/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 06/06/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 12/02/2013
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300019
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607300019
Action Type: RESPONSE
Date: 04/30/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0607300019
Action Type: RESPONSE
Date: 07/30/2009
Action: Remedial Progress Report

Global Id: T0607300019
Action Type: RESPONSE

CHEVRON USA INC. (Continued) **S104574079**

Date: 04/21/2010
Action: Other Workplan - Regulator Responded

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 01/07/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 12/01/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300019
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607300019
Action Type: RESPONSE
Date: 04/30/2009
Action: Remedial Progress Report

Global Id: T0607300019
Action Type: REMEDIATION
Date: 01/01/1950
Action: Free Product Removal

Global Id: T0607300019
Action Type: REMEDIATION
Date: 01/01/1950
Action: Soil Vapor Extraction (SVE)

Global Id: T0607300019
Action Type: REMEDIATION
Date: 01/01/1950
Action: Free Product Removal

Global Id: T0607300019
Action Type: RESPONSE
Date: 05/28/2013
Action: Correspondence

Global Id: T0607300019
Action Type: RESPONSE
Date: 10/30/2009
Action: Remedial Progress Report

Global Id: T0607300019
Action Type: ENFORCEMENT
Date: 05/14/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300019
Action Type: Other
Date: 01/01/1950
Action: Leak Began

CHEVRON USA INC. (Continued) **S104574079**

Global Id:	T0607300019
Action Type:	REMEDIATION
Date:	01/01/1950
Action:	Pump & Treat (P&T) Groundwater
Global Id:	T0607300019
Action Type:	ENFORCEMENT
Date:	11/26/2008
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607300019
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped
Global Id:	T0607300019
Action Type:	RESPONSE
Date:	10/30/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607300019
Action Type:	RESPONSE
Date:	10/29/2012
Action:	Correspondence
Global Id:	T0607300019
Action Type:	RESPONSE
Date:	10/29/2013
Action:	Monitoring Report - Semi-Annually - Regulator Responded
Global Id:	T0607300019
Action Type:	RESPONSE
Date:	04/30/2010
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607300019
Action Type:	RESPONSE
Date:	10/30/2010
Action:	Monitoring Report - Semi-Annually

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/05/2001
Global Id:	T0608145563
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H03791-004
Latitude:	32.692687
Longitude:	-117.140565
Case Type:	Cleanup Program Site
Case Worker:	SW
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Gasoline

CHEVRON USA INC. (Continued) **S104574079**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	06/16/1993
Global Id:	T0608117151
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H03791-002
Latitude:	32.6924461863303
Longitude:	-117.140736579895
Case Type:	Cleanup Program Site
Case Worker:	CH
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

I68 **CALIFORNIA MARINE CLEANING, INC** **CA San Diego Co. HMMD** **S104748499**
North **2049 MAIN ST** **CA HWT** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.230 mi.
1213 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
40 ft.

SAN DIEGO CO. HMMD:

Facility Id:	210375
Business Type:	6HK70
EPA Id Number:	CAL000339884
APN:	538-670-07-00
Last HMMD Inspection:	03/26/2012
Permit Status:	OPEN
Permit Expiration:	06/30/2013
Facility Owner:	MATT CARR
Facility Address:	PO BOX 13653
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92170
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Active Permits:

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	7727-37-9
Name:	NITROGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE

CALIFORNIA MARINE CLEANING, INC (Continued) **S104748499**

Hazardous Categories 2: Not reported

Facility Id: 210375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: SUMP WASTE/STEAM CLNG
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 210375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: FILTER RECYCLING
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 210375
Update Date: 11/02/2012
Case Number: Not reported
Name: PAINT / THINNER
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 210375
Update Date: 11/02/2012
Case Number: Not reported
Name: TECTYL 891
Other Information: PRESERVATIVE
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 210375
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)*
Other Information: OIL / BOTTLES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 210375
Update Date: 11/02/2012
Case Number: 8002-05-9
Name: LUBRICATING OILS
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 210375

CALIFORNIA MARINE CLEANING, INC (Continued) **S104748499**

Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	CHELATE SOLUTION
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information:	TANK BOTTOMS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	OILY RAGS, DEBRIS, CHT SLUDGE/ OILY BOTTLES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	ANTIFOAM 10% SILICONE - EMULSION
Other Information:	ANTIFOAM
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	7681-52-9
Name:	SODIUM HYPO CHLORITE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS

CALIFORNIA MARINE CLEANING, INC (Continued) **S104748499**

Other Information:	SPENT RYDLYME ACID / WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	AFFF 6%
Other Information:	AQUEOUS FILM FORMING FOAM
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	ETHYLENE GLYCOL
Other Information:	ANTIFREEZE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	PETROLEUM NAPHTHA (WAXY)
Other Information:	TECTYL MIXTURE 435D
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	RYDLYME
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)*
Other Information:	AEROSOLS
Material Waste:	Waste
Hazardous Categories 1:	Not reported

CALIFORNIA MARINE CLEANING, INC (Continued) **S104748499**

Hazardous Categories 2: Not reported

Violations Active Permits:

Facility Id: 210375
Update Date: 11/02/2012
Inspection Date: 03/26/2012
Violation Code: 6HV1012
Violation: SPCC PLAN NOT PREPARED
Violation Citation: Spill Prevention Countermeasures & Control Plan not prepared as required. 25270.5 (c)
Activity: ACTIVE

Facility Id: 210375
Update Date: 11/02/2012
Inspection Date: 03/26/2012
Violation Code: 6HV1002
Violation: HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation: Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity: ACTIVE

Facility Id: 210375
Update Date: 11/02/2012
Inspection Date: 02/20/2009
Violation Code: 6HV1001
Violation: NO UPF PERMIT FOR HAZMATS
Violation Citation: A Unified Program Facility permit has not been obtained for hazardous materials. 68.905
Activity: ACTIVE

Facility Id: 210375
Business Type: 6HK70
EPA Id Number: CAL000339884
APN: 538-670-07-00
Last HMMD Inspection: 03/26/2012
Permit Status: OPEN
Permit Expiration: 06/30/2013
Facility Owner: MATT CARR
Facility Address: PO BOX 13653
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92170
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

Active Permits:

Facility Id: 210375
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN GAS
Other Information: Not reported

CALIFORNIA MARINE CLEANING, INC (Continued) **S104748499**

Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	SUMP WASTE/STEAM CLNG
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 888 USED OIL FILTERS
Other Information:	FILTER RECYCLING
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	PAINT / THINNER
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	TECTYL 891
Other Information:	PRESERVATIVE
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)*
Other Information:	OIL / BOTTLES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	210375
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	LUBRICATING OILS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

CALIFORNIA MARINE CLEANING, INC (Continued) **S104748499**

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	CHELATE SOLUTION
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 343 UNSPEC ORGANIC LIQUID MIXTURE
Other Information:	TANK BOTTOMS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	OILY RAGS, DEBRIS, CHT SLUDGE/ OILY BOTTLES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	ANTIFOAM 10% SILICONE - EMULSION
Other Information:	ANTIFOAM
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	7681-52-9
Name:	SODIUM HYPO CHLORITE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported

CALIFORNIA MARINE CLEANING, INC (Continued) **S104748499**

Name:	WASTE 132 AQUEOUS SOL'N WITH METALS
Other Information:	SPENT RYDLYME ACID / WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	AFFF 6%
Other Information:	AQUEOUS FILM FORMING FOAM
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	ETHYLENE GLYCOL
Other Information:	ANTIFREEZE
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	PETROLEUM NAPHTHA (WAXY)
Other Information:	TECTYL MIXTURE 435D
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	RYDLYME
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

Facility Id:	210375
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)*
Other Information:	AEROSOLS
Material Waste:	Waste

CALIFORNIA MARINE CLEANING, INC (Continued) **S104748499**

Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Facility Id: 210375
Update Date: 11/02/2012
Inspection Date: 03/26/2012
Violation Code: 6HV1012
Violation: SPCC PLAN NOT PREPARED
Violation Citation: Spill Prevention Countermeasures & Control Plan not prepared as required. 25270.5 (c)
Activity: ACTIVE

Facility Id: 210375
Update Date: 11/02/2012
Inspection Date: 03/26/2012
Violation Code: 6HV1002
Violation: HMBP NOT ESTABISHED/IMPLEMENTED.
Violation Citation: Hazardous materials handler has not established/implemented a business plan. HSC 25503.5(a)
Activity: ACTIVE

Facility Id: 210375
Update Date: 11/02/2012
Inspection Date: 02/20/2009
Violation Code: 6HV1001
Violation: NO UPF PERMIT FOR HAZMATS
Violation Citation: A Unified Program Facility permit has not been obtained for hazardous materials. 68.905
Activity: ACTIVE

Facility Id: 115806
Business Type: 6HK70
EPA Id Number: CAL000018717
APN: 538-670-07-00
Last HMMD Inspection: 10/19/1993
Permit Status: INAC
Permit Expiration: 10/19/1993
Facility Owner: STUART C TEUSCHER
Facility Address: 2049 MAIN ST
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92113-2216
UST Owner: Not reported
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

HWT:
Reg Num: 2174
Expiration Date: 07/31/2014

J69 **WILLIG FREIGHT LINES** **CA HIST UST** **U001573002**
ENE **2286 MAIN ST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.246 mi.
1297 ft. **Site 1 of 5 in cluster J**

Relative:
Higher

Actual:
41 ft.

HIST UST:

Region:	STATE
Facility ID:	00000013430
Facility Type:	Other
Other Type:	TRUCKING
Total Tanks:	0001
Contact Name:	J. FLETCHER
Telephone:	6192345473
Owner Name:	MRS. MARION A. PHILLIPS
Owner Address:	4749 LA RUEDA DRIVE
Owner City,St,Zip:	LA MESA, CA 92041
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	Stock Inventor

J70 **SOUTHWEST MARINE** **CA San Diego Co. HMMD** **S105694683**
ENE **2286 MAIN ST** **CA SAN DIEGO CO. SAM** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.246 mi.
1297 ft. **Site 2 of 5 in cluster J**

Relative:
Higher

Actual:
41 ft.

SAN DIEGO CO. HMMD:

Facility Id:	123569
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-730-13-00
Last HMMD Inspection:	03/26/1991
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	SOUTHWEST MARINE DIVISION
Facility Address:	P O BOX 13308
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92170-3308
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

SAN DIEGO CO. SAM:

Case Number:	H23569-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Complaint

SOUTHWEST MARINE (Continued) **S105694683**

Facility Status: Closed Case
Date: 7/25/1991
Date Began: Not reported

J71 **SAN DIEGO MUSEUM OF ART** **CA HIST CORTESE** **S102436321**
ENE **2286 MAIN ST** **CA LUST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113** **CA SLIC**
0.246 mi. **CA SWEEPS UST**
1297 ft. **Site 3 of 5 in cluster J** **CA San Diego Co. HMMD**
CA SAN DIEGO CO. SAM

Relative:
Higher

Actual:
41 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT880

LUST:
Region: STATE
Global Id: T0607303125
Latitude: 32.695048
Longitude: -117.140283
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 05/27/1988
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT880
LOC Case Number: H15420-001
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607303125
Status: Completed - Case Closed
Status Date: 05/27/1988

Global Id: T0607303125
Status: Open - Case Begin Date
Status Date: 12/23/1987

Regulatory Activities:
Global Id: T0607303125
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607303125
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

SAN DIEGO MUSEUM OF ART (Continued) **S102436321**

Global Id: T0607303125
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0607303125
Action Type: Other
Date: 01/01/1950
Action: Leak Began

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT880
Local Case: H15420-001
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Piping
Cause: Overfill
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 12/23/1987
Date Stopped: 12/23/1987
Confirm Date: 12/23/1987
Submit Workplan: Not reported
Prelim Assess: 01/05/1988
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 01/05/1988
Enforce Date: Not reported
Closed Date: 5/27/88
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 07/25/1991
Global Id: T0608125152
Lead Agency: SAN DIEGO COUNTY LOP

SAN DIEGO MUSEUM OF ART (Continued) **S102436321**

Lead Agency Case Number:	H23569-001
Latitude:	32.695049
Longitude:	-117.140284
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	07/25/1991
Global Id:	T0608195257
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H15420-002
Latitude:	32.695105
Longitude:	-117.140369
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:

Status:	Active
Comp Number:	15420
Number:	9
Board Of Equalization:	44-002269
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	15420
Number:	Not reported
Board Of Equalization:	44-002269
Referral Date:	Not reported
Action Date:	Not reported

SAN DIEGO MUSEUM OF ART (Continued) **S102436321**

Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-015420-000001
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	3

Status:	Not reported
Comp Number:	15420
Number:	Not reported
Board Of Equalization:	44-002269
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-015420-000002
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	15420
Number:	Not reported
Board Of Equalization:	44-002269
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-015420-000003
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

SAN DIEGO CO. HMMD:

Facility Id:	115420
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-730-13-00
Last HMMD Inspection:	11/16/1990
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	KS&S PARTNERSHIP
Facility Address:	400 S FARRELL DR
Facility City:	PALM SPRINGS
Facility State:	CA

SAN DIEGO MUSEUM OF ART (Continued) **S102436321**

Facility Zip: 92262-7964
UST Owner: KS & S PARTNERSHIP
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:
UST Name: UNDERGROUND TANK 115420 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 115420
Tank Type: SINGLE WALL
Additional Id: 1
Capacity Gallons: 10000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1991-02-28 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: SUCTION
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 115420 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 115420
Tank Type: SINGLE WALL
Additional Id: 2
Capacity Gallons: 500
UST Contents: Not reported
Other Content Info: WASTE OIL
Reg Status: REMOVED
Remove Close Date: 1987-12-23 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 115420 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 115420
Tank Type: UNKNOWN
Additional Id: 3
Capacity Gallons: 1000
UST Contents: PREMIUM UNLEADED
Other Content Info: PREMIUM UNLEADED
Reg Status: REMOVED
Remove Close Date: 1987-12-23 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05

SAN DIEGO MUSEUM OF ART (Continued) **S102436321**

UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

Facility Id:	119285
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-730-13-00
Last HMMD Inspection:	12/16/1988
Permit Status:	INAC
Permit Expiration:	12/16/1988
Facility Owner:	SAME
Facility Address:	2286 MAIN ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-3641
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

SAN DIEGO CO. SAM:

Case Number:	H15420-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	5/27/1988
Date Began:	12/23/1987

Case Number:	H15420-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	7/25/1991
Date Began:	3/1/1991

K72 **PERFORMANCE CONTRACTING, INC** **RCRA-CESQG 1000230374**
North **2015 MAIN ST** **FINDS CAD981379217**
1/8-1/4 **SAN DIEGO, CA 92113**
0.246 mi.
1300 ft. **Site 1 of 2 in cluster K**

Relative:
Higher

Actual:
39 ft.

RCRA-CESQG:

Date form received by agency:	02/04/1986
Facility name:	PERFORMANCE CONTRACTING, INC
Facility address:	2015 MAIN ST SAN DIEGO, CA 92113
EPA ID:	CAD981379217
Mailing address:	P O BOX 13189 SAN DIEGO, CA 92113
Contact:	ENVIRONMENTAL MANAGER
Contact address:	2015 MAIN ST

PERFORMANCE CONTRACTING, INC (Continued) **1000230374**

SAN DIEGO, CA 92113
Contact country: US
Contact telephone: (619) 236-1531
Contact email: Not reported
EPA Region: 09
Classification: *Conditionally Exempt Small Quantity Generator*
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:
Owner/operator name: OWENS/CORNING FIBERGL
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: *Not reported*
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: Yes
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: *No*

PERFORMANCE CONTRACTING, INC (Continued) **1000230374**

Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002686969

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

L73 **CHEVRON USA INC.** **CA AST** **S104234412**
East **2351 E HARBOR DR** **CA SWEEPS UST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113** **CA San Diego Co. HMMD**
0.248 mi. **CA SAN DIEGO CO. SAM**
1307 ft. **Site 1 of 5 in cluster L**

Relative: **Higher**

Actual: **31 ft.**

AST:
Owner: CHEVRON USA INC
Total Gallons: 6636258
Certified Unified Program Agencies: San Diego

SWEEPS UST:
Status: Active
Comp Number: 3791
Number: 9
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-003791-000001
Tank Status: A
Capacity: 12000
Active Date: Not reported
Tank Use: OIL
STG: W
Content: Not reported
Number Of Tanks: 4

Status: Active
Comp Number: 3791
Number: 9
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-003791-000007
Tank Status: A
Capacity: 1000

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CHEVRON USA INC. (Continued) **S104234412**

Active Date:	Not reported
Tank Use:	OIL
STG:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Active
Comp Number:	3791
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-003791-000008
Tank Status:	A
Capacity:	5000
Active Date:	Not reported
Tank Use:	OIL
STG:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Active
Comp Number:	3791
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-003791-000009
Tank Status:	A
Capacity:	6000
Active Date:	Not reported
Tank Use:	OIL
STG:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	3791
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-003791-000002
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	4

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CHEVRON USA INC. (Continued) **S104234412**

Status:	Not reported
Comp Number:	3791
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-003791-000003
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	3791
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-003791-000004
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	3791
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-003791-000005
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

SAN DIEGO CO. HMMD:

Facility Id:	103791
Business Type:	6HK78
EPA Id Number:	CAT000614958
APN:	538-800-10-00
Last HMMD Inspection:	10/17/2011

CHEVRON USA INC. (Continued) **S104234412**

Permit Status:	OPEN
Permit Expiration:	01/31/2013
Facility Owner:	CHEVRON USA INC
Facility Address:	2351 E. HARBOR DRIVE
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113
UST Owner:	CHEVRON USA, INC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 103791 T010
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	DOUBLE WALL
Additional Id:	TANK 11
Capacity Gallons:	30000
UST Contents:	OTHER
Other Content Info:	WASTE WATER (WATER & ETHANOL)
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	2003-02-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	GRAVITY
Monitor Code:	99
UST Monitor Method:	OTHER - BLIND REMARK REQUIRED

UST Name:	UNDERGROUND TANK 103791 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	SINGLE WALL
Additional Id:	00001 WASTE WATER
Capacity Gallons:	12000
UST Contents:	Not reported
Other Content Info:	WASTE WATER
Reg Status:	REMOVED
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 103791 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	SINGLE WALL
Additional Id:	00002
Capacity Gallons:	550
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED

CHEVRON USA INC. (Continued) **S104234412**

Remove Close Date: 1985-12-20 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 103791 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 103791
Tank Type: SINGLE WALL
Additional Id: 00003
Capacity Gallons: 1000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1985-12-20 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 103791 T004
Last Update: 2012-11-02 14:17:38
Permit Number: 103791
Tank Type: SINGLE WALL
Additional Id: 00004
Capacity Gallons: 1000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1985-12-20 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 103791 T005
Last Update: 2012-11-02 14:17:38
Permit Number: 103791
Tank Type: SINGLE WALL
Additional Id: 00005
Capacity Gallons: 550
UST Contents: Not reported
Other Content Info: WASTE OIL
Reg Status: REMOVED
Remove Close Date: 1986-11-08 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING

CHEVRON USA INC. (Continued) **S104234412**

ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 103791 T007
Last Update: 2012-11-02 14:17:38
Permit Number: 103791
Tank Type: DOUBLE WALL
Additional Id: TANK 4 GASOLINE AND WATER; NT2336
Capacity Gallons: 1000
UST Contents: Not reported
Other Content Info: VAPOR KNOCK OUT
Reg Status: ACTIVE
Remove Close Date: Not reported
Year Installed: 1987-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 31B
UST Monitor Method: DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

UST Name: UNDERGROUND TANK 103791 T008
Last Update: 2012-11-02 14:17:38
Permit Number: 103791
Tank Type: DOUBLE WALL
Additional Id: TANK 5 RAINWATER PRODUCT TANKS ; NT2336
Capacity Gallons: 5000
UST Contents: Not reported
Other Content Info: FUEL & WASTE WATER
Reg Status: ACTIVE
Remove Close Date: Not reported
Year Installed: 1990-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: PRESSURE
Monitor Code: 21
UST Monitor Method: DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL

UST Name: UNDERGROUND TANK 103791 T009
Last Update: 2012-11-02 14:17:38
Permit Number: 103791
Tank Type: DOUBLE WALL
Additional Id: 11 RAINWATER AND WATER DRAWN OFF PRODUCT TANKS
Capacity Gallons: 6000
UST Contents: Not reported
Other Content Info: RAINWATER AND WATER DRAWN OFF
Reg Status: REMOVED
Remove Close Date: Not reported
Year Installed: Not reported
Pipe Type: SINGLE WALL
Delivery System: PRESSURE
Monitor Code: 21
UST Monitor Method: DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL.

Active Permits:
Facility Id: 103791
Update Date: 11/02/2012
Case Number: MIXTURE

CHEVRON USA INC. (Continued) **S104234412**

Name:	ADDITIVE
Other Information:	OGA 72015 (AKA OGA 72308)
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	7727-37-9
Name:	NITROGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	ETHYLENE GLYCOL
Other Information:	ANTIFREEZE
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	GASOLINE FUEL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	OILY WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	29385-43-1
Name:	AQUEOUS FILM FORMING FOAM
Other Information:	AFFF
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	DIESEL TANKS 16&17
Material Waste:	Material

CHEVRON USA INC. (Continued) **S104234412**

Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 103791
Update Date: 11/02/2012
Case Number: MIXTURE
Name: MIX OF PROPANE & NITROGEN GAS
Other Information: COMPRESSED GAS N.O.S (NITROGEN, PROPANE)
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 103791
Update Date: 11/02/2012
Case Number: MIXTURE
Name: TRANSMIX
Other Information: 60% DIESEL, 40% GAS
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 103791
Update Date: 11/02/2012
Case Number: MIXTURE
Name: INFINEUM R685
Other Information: DIESEL ADDITIVE
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 103791
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 461 PAINT SLUDGE
Other Information: OIL BASED PAINT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 103791
Update Date: 11/02/2012
Case Number: MIXTURE
Name: ADDITIVE
Other Information: OGA 432- NAPTHA, XYLENE
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 103791
Update Date: 11/02/2012
Case Number: 64-17-5
Name: ETHANOL T021
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

CHEVRON USA INC. (Continued) **S104234412**

Facility Id:	103791
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information:	PRODUCT CONTAMINATED WATER W/FUEL & ADDITIVES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	103791
Update Date:	11/02/2012
Case Number:	86290-81-5
Name:	GASOLINE
Other Information:	TANKS 1&2
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Violations Active Permits:

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	11/01/2007
Violation Code:	6HV0304
Violation:	WASTE DETERMINATION NOT MADE
Violation Citation:	Generator of a waste has not determined if that waste is a hazardous waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	09/09/2005
Violation Code:	6HV0143
Violation:	TP NOTIFICATION INCOMPLETE/INCORRECT
Violation Citation:	TIERED PERMITTING: TP Notification has incomplete or incorrect information. 25201
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	10/25/2010
Violation Code:	6HV3263
Violation:	MONITOR SYSTEM NOT ALL FUNCTIONAL
Violation Citation:	Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	11/01/2007
Violation Code:	6HV3191
Violation:	NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation:	Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012

CHEVRON USA INC. (Continued) **S104234412**

Inspection Date: 11/01/2007
Violation Code: 6HV1014
Violation: HMBP INCOMPLETE/NOT AMENDED
Violation Citation: HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0146
Violation: NO ERM EXEMPTION CLAIM DOCUMENTS
Violation Citation: Failed to have adequate records demonstrating claim of exemption for Excluded Recyclable Material (ERM). 25143.2(f) & 66261.2(g)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0209
Violation: WASTE ONSITE >90/180/270 DAYS
Violation Citation: Hazardous waste is stored in excess of allowable time period (90 days) without a State permit or written variance. CCR 25201(a) & 66262.34(a)&(c)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV3254
Violation: UST SYSTEM W/O APPROVED OVERFILL PROTECT
Violation Citation: UST system does not have an approved overfill protection system. 2635(b)(2)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/14/2008
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 06/12/2003
Violation Code: 6HV3257
Violation: 2NDRY CONTAINMENT NOT LIQUID FREE
Violation Citation: Secondary containment system components not liquid free. 2631(d)(4)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 08/24/2004
Violation Code: 6HV3107
Violation: MONITORING PROCEDURES NOT AVAIL/TO HMD

CHEVRON USA INC. (Continued) **S104234412**

Violation Citation: Monitoring procedures not available/complete/submitted to HMD 2632(b)& (d), 2634(d), 2641(h), 2711(a)(9)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 11/01/2007
Violation Code: 6HV1017
Violation: HMBP NOT CERTIFIED ANNUALLY
Violation Citation: Business Plan not certified annually. 25505(d) & (e)(2)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0304
Violation: WASTE DETERMINATION NOT MADE
Violation Citation: Generator of a waste has not determined if that waste is a hazardous waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV3193
Violation: NO TRAINING/RECORD INCOMPLETE-NOT ONSITE
Violation Citation: Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0307
Violation: ILLEGAL DISPOSAL OF UNIVERSAL WASTE
Violation Citation: Disposal of universal waste to an unauthorized point. 25189.5(a); SQH:66273.11(a); LQH: 66273.31(a)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 06/12/2003
Violation Code: 6HV3109
Violation: NO SCALED PLOT PLAN AVAIL/TO HMD
Violation Citation: Scaled Plot plan showing tank, piping & equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1) (C)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0402
Violation: TRAINING PROGRAM NOT ADEQUATE
Violation Citation: Personnel training is not adequate to ensure compliance with hazardous waste regulations. CCR 66265.16(a)&(b)
Activity: ACTIVE

CHEVRON USA INC. (Continued) **S104234412**

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	10/17/2011
Violation Code:	6HV3412
Violation:	NO ANNUAL 0.1 GPH TEST
Violation Citation:	DOUBLE WALLED PRESSURIZED PIPING-Including Under Dispenser Containment (UDC):OPTION 1: *No annual 0.1 gph (gallon per hour) test. 2636(f)(4)*
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	08/24/2004
Violation Code:	6HV0215
Violation:	OIL FILTERS IMPROPERLY MANAGED
Violation Citation:	Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	06/12/2003
Violation Code:	6HV3262
Violation:	SEC CONT PIPING DRAINAGE OBSTRUCTED
Violation Citation:	Secondary containment piping obstructed preventing drainage to sump. 2632
Activity:	ACTIVE

Facility Id:	103791
Business Type:	6HK78
EPA Id Number:	CAT000614958
APN:	538-800-10-00
Last HMMD Inspection:	10/17/2011
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Facility Owner:	CHEVRON USA INC
Facility Address:	2351 E. HARBOR DRIVE
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113
UST Owner:	CHEVRON USA, INC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Y
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 103791 T010
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	DOUBLE WALL
Additional Id:	TANK 11
Capacity Gallons:	30000
UST Contents:	OTHER
Other Content Info:	WASTE WATER (WATER & ETHANOL)
Reg Status:	ACTIVE

CHEVRON USA INC. (Continued) **S104234412**

Remove Close Date:	Not reported
Year Installed:	2003-02-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	GRAVITY
Monitor Code:	99
UST Monitor Method:	OTHER - BLIND REMARK REQUIRED
UST Name:	UNDERGROUND TANK 103791 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	SINGLE WALL
Additional Id:	00001 WASTE WATER
Capacity Gallons:	12000
UST Contents:	Not reported
Other Content Info:	WASTE WATER
Reg Status:	REMOVED
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 103791 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	SINGLE WALL
Additional Id:	00002
Capacity Gallons:	550
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1985-12-20 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 103791 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	SINGLE WALL
Additional Id:	00003
Capacity Gallons:	1000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1985-12-20 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

CHEVRON USA INC. (Continued) **S104234412**

UST Name:	UNDERGROUND TANK 103791 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	SINGLE WALL
Additional Id:	00004
Capacity Gallons:	1000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1985-12-20 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 103791 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	SINGLE WALL
Additional Id:	00005
Capacity Gallons:	550
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 103791 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	DOUBLE WALL
Additional Id:	TANK 4 GASOLINE AND WATER; NT2336
Capacity Gallons:	1000
UST Contents:	Not reported
Other Content Info:	VAPOR KNOCK OUT
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1987-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	31B
UST Monitor Method:	DW TANK, DW PRESSURIZED PIPE W/ DRY TANK ANNULAR; POSITIVE SHUT-OFF & FAILSAFE, 3.0LLD; UDC W/ MECHANICAL FLOAT

UST Name:	UNDERGROUND TANK 103791 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	DOUBLE WALL
Additional Id:	TANK 5 RAINWATER PRODUCT TANKS ; NT2336
Capacity Gallons:	5000

CHEVRON USA INC. (Continued) **S104234412**

UST Contents:	Not reported
Other Content Info:	FUEL & WASTE WATER
Reg Status:	ACTIVE
Remove Close Date:	Not reported
Year Installed:	1990-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	21
UST Monitor Method:	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL
UST Name:	UNDERGROUND TANK 103791 T009
Last Update:	2012-11-02 14:17:38
Permit Number:	103791
Tank Type:	DOUBLE WALL
Additional Id:	11 RAINWATER AND WATER DRAWN OFF PRODUCT TANKS
Capacity Gallons:	6000
UST Contents:	Not reported
Other Content Info:	RAINWATER AND WATER DRAWN OFF
Reg Status:	REMOVED
Remove Close Date:	Not reported
Year Installed:	Not reported
Pipe Type:	SINGLE WALL
Delivery System:	PRESSURE
Monitor Code:	21
UST Monitor Method:	DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL.

Active Permits:

Facility Id:	103791
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	ADDITIVE
Other Information:	OGA 72015 (AKA OGA 72308)
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	7727-37-9
Name:	NITROGEN GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	107-21-1
Name:	ETHYLENE GLYCOL
Other Information:	ANTIFREEZE
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791

CHEVRON USA INC. (Continued) **S104234412**

Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information:	GASOLINE FUEL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	OILY WATER
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	29385-43-1
Name:	AQUEOUS FILM FORMING FOAM
Other Information:	AFFF
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL FUEL
Other Information:	DIESEL TANKS 16&17
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	MIX OF PROPANE & NITROGEN GAS
Other Information:	COMPRESSED GAS N.O.S (NITROGEN, PROPANE)
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	TRANSMIX
Other Information:	60% DIESEL, 40% GAS
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	INFINEUM R685

CHEVRON USA INC. (Continued) **S104234412**

Other Information:	DIESEL ADDITIVE
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 461 PAINT SLUDGE
Other Information:	OIL BASED PAINT
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	ADDITIVE
Other Information:	OGA 432- NAPTHA, XYLENE
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	64-17-5
Name:	ETHANOL T021
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 133 AQUEOUS SOL'N W/ 10% ORG RESID
Other Information:	PRODUCT CONTAMINATED WATER W/FUEL & ADDITIVES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	103791
Update Date:	11/02/2012
Case Number:	86290-81-5
Name:	GASOLINE
Other Information:	TANKS 1&2
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Violations Active Permits:

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	11/01/2007
Violation Code:	6HV0304
Violation:	WASTE DETERMINATION NOT MADE
Violation Citation:	Generator of a waste has not determined if that waste is a hazardous

CHEVRON USA INC. (Continued) **S104234412**

waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 09/09/2005
Violation Code: 6HV0143
Violation: TP NOTIFICATION INCOMPLETE/INCORRECT
Violation Citation: TIERED PERMITTING: TP Notification has incomplete or incorrect information. 25201
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/25/2010
Violation Code: 6HV3263
Violation: MONITOR SYSTEM NOT ALL FUNCTIONAL
Violation Citation: Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 11/01/2007
Violation Code: 6HV3191
Violation: NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation: Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 11/01/2007
Violation Code: 6HV1014
Violation: HMBP INCOMPLETE/NOT AMENDED
Violation Citation: HMBP is incomplete/inadequate/not amended to reflect changes. 25504, 25505(a)(2) &/or 25509(a); 25505(b); 19 CCR 2729
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0146
Violation: NO ERM EXEMPTION CLAIM DOCUMENTS
Violation Citation: Failed to have adequate records demonstrating claim of exemption for Excluded Recyclable Material (ERM). 25143.2(f) & 66261.2(g)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0209
Violation: WASTE ONSITE >90/180/270 DAYS
Violation Citation: Hazardous waste is stored in excess of allowable time period (90 days) without a State permit or written variance. CCR 25201(a) & 66262.34(a)&(c)
Activity: ACTIVE

CHEVRON USA INC. (Continued) **S104234412**

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	10/16/2006
Violation Code:	6HV3254
Violation:	UST SYSTEM W/O APPROVED OVERFILL PROTECT
Violation Citation:	UST system does not have an approved overfill protection system. 2635(b)(2)
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	10/14/2008
Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	06/12/2003
Violation Code:	6HV3257
Violation:	2NDRY CONTAINMENT NOT LIQUID FREE
Violation Citation:	Secondary containment system components not liquid free. 2631(d)(4)
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	08/24/2004
Violation Code:	6HV3107
Violation:	MONITORING PROCEDURES NOT AVAIL/TO HMD
Violation Citation:	Monitoring procedures not available/complete/submitted to HMD 2632(b)& (d), 2634(d), 2641(h), 2711(a)(9)
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	11/01/2007
Violation Code:	6HV1017
Violation:	HMBP NOT CERTIFIED ANNUALLY
Violation Citation:	Business Plan not certified annually. 25505(d) & (e)(2)
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	10/16/2006
Violation Code:	6HV0304
Violation:	WASTE DETERMINATION NOT MADE
Violation Citation:	Generator of a waste has not determined if that waste is a hazardous waste as defined by law. CCR 66262.11 & 66260.200(c)
Activity:	ACTIVE

Facility Id:	103791
Update Date:	11/02/2012
Inspection Date:	10/16/2006
Violation Code:	6HV3193
Violation:	NO TRAINING/RECORD INCOMPLETE-NOT ONSITE

CHEVRON USA INC. (Continued) **S104234412**

Violation Citation: Facility employee(s) are not trained, training records are incomplete, and/or not onsite. 2715(f)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0307
Violation: ILLEGAL DISPOSAL OF UNIVERSAL WASTE
Violation Citation: Disposal of universal waste to an unauthorized point. 25189.5(a); SQH:66273.11(a); LQH: 66273.31(a)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 06/12/2003
Violation Code: 6HV3109
Violation: NO SCALED PLOT PLAN AVAIL/TO HMD
Violation Citation: Scaled Plot plan showing tank, piping & equipment location not available/complete/submitted to HMD. 2711(a)(8), 2632(d)(1) (C)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/16/2006
Violation Code: 6HV0402
Violation: TRAINING PROGRAM NOT ADEQUATE
Violation Citation: Personnel training is not adequate to ensure compliance with hazardous waste regulations. CCR 66265.16(a)&(b)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 10/17/2011
Violation Code: 6HV3412
Violation: NO ANNUAL 0.1 GPH TEST
Violation Citation: DOUBLE WALLED PRESSURIZED PIPING-Including Under Dispenser Containment (UDC):OPTION 1: No annual 0.1 gph (gallon per hour) test. 2636(f)(4)
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 08/24/2004
Violation Code: 6HV0215
Violation: OIL FILTERS IMPROPERLY MANAGED
Violation Citation: Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity: ACTIVE

Facility Id: 103791
Update Date: 11/02/2012
Inspection Date: 06/12/2003
Violation Code: 6HV3262
Violation: SEC CONT PIPING DRAINAGE OBSTRUCTED
Violation Citation: Secondary containment piping obstructed preventing drainage to sump. 2632
Activity: ACTIVE

CHEVRON USA INC. (Continued) **S104234412**

SAN DIEGO CO. SAM:
Case Number: H03791-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Remedial Investigation
Date: 10/11/1988
Date Began: 3/30/1987

Case Number: H03791-002
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Preliminary Assessment
Date: 6/16/1993
Date Began: 6/15/1993

Case Number: H03791-003
Agency: CA Regional Water Quality Control Board
Funding: **Non Billable**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Closed Case
Date: 8/21/2003
Date Began: 2/6/2001

L74 **CHEVRON USA INC.** **CA UST** **U003789146**
East **2351 HARBOR DR** **CA SAN DIEGO CO. SAM** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.248 mi.
1307 ft. **Site 2 of 5 in cluster L**

Relative:
Higher

Actual:
31 ft.

UST:
Facility ID: H03791
Latitude: 32.694163
Longitude: -117.139124
Permitting Agency: SAN DIEGO COUNTY

SAN DIEGO CO. SAM:
Case Number: H03791-004
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 12/5/2001
Date Began: 10/1/2001

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L75 **CHEVRON USA INC. - HARBOR DR E** **CA HIST CORTESE** **S101302018**
East **2351 HARBOR DR E** **CA LUST** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113** **CA EMI**
0.248 mi.
1307 ft. **Site 3 of 5 in cluster L**

Relative:
Higher

Actual:
31 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT0015

LUST REG 9:

Region:	9
Status:	Remediation Plan
Case Number:	9UT0015
Local Case:	H03791-001
Substance:	Hydrocarbons
Qty Leaked:	0
Abate Method:	Remove Free Product - remove floating product from water table
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	New Tank
Source:	Tank
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	*01/28/1984*
Date Stopped:	03/30/1987
Confirm Date:	03/30/1987
Submit Workplan:	Not reported
Prelim Assess:	08/29/1986
Desc Pollution:	Not reported
Remed Plan:	08/27/1987
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	08/04/1986
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	20
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

EMI:

Year:	1997
County Code:	37
Air Basin:	SD
Facility ID:	1968
Air District Name:	SD
SIC Code:	5171

CHEVRON USA INC. - HARBOR DR E (Continued) **S101302018**

Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	44
Reactive Organic Gases Tons/Yr:	43
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1998
County Code:	37
Air Basin:	SD
Facility ID:	1968
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	41
Reactive Organic Gases Tons/Yr:	40
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	1968
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	36
Reactive Organic Gases Tons/Yr:	36
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	1968
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	36
Reactive Organic Gases Tons/Yr:	36
Carbon Monoxide Emissions Tons/Yr:	0

CHEVRON USA INC. - HARBOR DR E (Continued) **S101302018**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	1968
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	17
Reactive Organic Gases Tons/Yr:	17
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	1968
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	17
Reactive Organic Gases Tons/Yr:	17
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	1968
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2004

CHEVRON USA INC. - HARBOR DR E (Continued) **S101302018**

County Code:	37
Air Basin:	SD
Facility ID:	1968
Air District Name:	SD
SIC Code:	5171
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.41324868
Reactive Organic Gases Tons/Yr:	1.41324868
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

L76 **EDR US Hist Auto Stat** **1015350170**
East **2351 HARBOR DR** **N/A**
1/8-1/4 **SAN DIEGO, CA 92113**
0.248 mi.
1307 ft. **Site 4 of 5 in cluster L**

Relative:
Higher

Actual:
31 ft.

EDR Historical Auto Stations:

Name:	CHEVRON U S A INC
Year:	2009
Address:	2351 HARBOR DR
Name:	CHEVRON
Year:	2011
Address:	2351 HARBOR DR
Name:	CHEVRON
Year:	2012
Address:	2351 HARBOR DR

L77 **CHEVRON SAN DIEGO TERMINAL 1001252** **RCRA-LQG** **1000434382**
East **2351 E HARBOR DR.** **CA HIST UST** **CAT000614958**
1/8-1/4 **SAN DIEGO, CA 92113**
0.248 mi.
1307 ft. **Site 5 of 5 in cluster L**

Relative:
Higher

Actual:
31 ft.

RCRA-LQG:

Date form received by agency:	02/28/2008
Facility name:	CHEVRON SAN DIEGO TERMINAL 1001252
Facility address:	2351 E HARBOR DR. SAN DIEGO, CA 92113
EPA ID:	CAT000614958
Mailing address:	PO BOX 6004 SAN RAMON, CA 94583
Contact:	KATHY L NORRIS
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	(925) 842-5931
Contact email:	NAWTDESK@CHEVRON.COM
EPA Region:	09

CHEVRON SAN DIEGO TERMINAL 1001252 (Continued) **1000434382**

Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: CHEVRON PRODUCTS CO.
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1922
Owner/Op end date: Not reported

Owner/operator name: CHEVRON PRODUCTS CO.
Owner/operator address: PO BOX 6004
SAN RAMON, CA 94583
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1922
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 03/28/2002
Site name: CHEVRON SAN DIEGO TERMINAL 1001252

CHEVRON SAN DIEGO TERMINAL 1001252 (Continued) **1000434382**

Classification: Small Quantity Generator

Date form received by agency: 03/28/2002
Site name: CHEVRON SAN DIEGO TERMINAL 1001252
Classification: Large Quantity Generator

Date form received by agency: 09/01/1996
Site name: CHEVRON USA INC SAN DIEGO SUPPLY SITE
Classification: Large Quantity Generator

Date form received by agency: 02/14/1996
Site name: SAN DIEGO TERMINAL-CHEVRON RETAIL MARKTG
Classification: Large Quantity Generator

Date form received by agency: 02/23/1994
Site name: CHEVRON USA PRODUCTS SAN DIEGO TERMINAL
Classification: Large Quantity Generator

Date form received by agency: 02/27/1992
Site name: CHEVRON TERMINAL-SAN DIEGO
Classification: Large Quantity Generator

Date form received by agency: 08/15/1980
Site name: CHEVRON USA INC SAN DIEGO SUPPLY SITE
Classification: Large Quantity Generator

Hazardous Waste Summary:
Waste code: D008
Waste name: LEAD

Waste code: D018
Waste name: BENZENE

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

CHEVRON SAN DIEGO TERMINAL 1001252 (Continued) **1000434382**

Facility Has Received Notices of Violations:
- Regulation violated: Not reported
- Area of violation: Generators - General
- Date violation determined: 09/09/2005
- Date achieved compliance: Not reported
- Violation lead agency: State
  - Enforcement action: WRITTEN INFORMAL
  - Enforcement action date: 09/09/2005
  - Enf. disposition status: Not reported
  - Enf. disp. status date: Not reported
  - Enforcement lead agency: State
  - Proposed penalty amount: Not reported
  - Final penalty amount: Not reported
  - Paid penalty amount: Not reported

- Regulation violated: FR - 262.10-12.A
- Area of violation: Generators - General
- Date violation determined: 08/02/1993
- Date achieved compliance: 08/02/1998
- Violation lead agency: State
  - Enforcement action: Not reported
  - Enforcement action date: Not reported
  - Enf. disposition status: Not reported
  - Enf. disp. status date: Not reported
  - Enforcement lead agency: Not reported
  - Proposed penalty amount: Not reported
  - Final penalty amount: Not reported
  - Paid penalty amount: Not reported

- Regulation violated: FR - 262.10-12.A
- Area of violation: Generators - General
- Date violation determined: 01/25/1991
- Date achieved compliance: 08/02/1993
- Violation lead agency: State
  - Enforcement action: Not reported
  - Enforcement action date: Not reported
  - Enf. disposition status: Not reported
  - Enf. disp. status date: Not reported
  - Enforcement lead agency: Not reported
  - Proposed penalty amount: Not reported
  - Final penalty amount: Not reported
  - Paid penalty amount: Not reported

Evaluation Action Summary:
- Evaluation date: 09/09/2005
- Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
- Area of violation: Generators - General
- Date achieved compliance: Not reported
- Evaluation lead agency: Local

- Evaluation date: 08/02/1993
- Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
- Area of violation: Generators - General
- Date achieved compliance: 08/02/1998
- Evaluation lead agency: State Contractor/Grantee

CHEVRON SAN DIEGO TERMINAL 1001252 (Continued) **1000434382**

Evaluation date: 01/25/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/02/1993
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 12/06/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: Not reported
Evaluation lead agency: State Contractor/Grantee

HIST UST:
Region: STATE
Facility ID: 00000021494
Facility Type: Other
Other Type: TERMINAL
Total Tanks: 0006
Contact Name: R. W. CLEWORTH
Telephone: 6192328573
Owner Name: CHEVRON USA INC.
Owner Address: 1201 S. BEACH BLVD.
Owner City,St,Zip: LA HABRA, CA 90631

Tank Num: 001
Container Num: U
Year Installed: Not reported
Tank Capacity: 00012000
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 003
Container Num: 3
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

Tank Num: 004
Container Num: 4
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Tank Construction: Not reported

CHEVRON SAN DIEGO TERMINAL 1001252 (Continued) **1000434382**

Leak Detection: None

Tank Num: 005
Container Num: 5
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: Not reported
Leak Detection: None

Tank Num: 006
Container Num: 6
Year Installed: Not reported
Tank Capacity: 00000750
Tank Used for: WASTE
Type of Fuel: Not reported
Tank Construction: Not reported
Leak Detection: None

K78 **P&L KNEPP TRUCKING** **CA HIST CORTESE S102434817**
North **2001 MAIN ST** **CA LUST N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SWEEPS UST**
0.254 mi. **CA San Diego Co. HMMD**
1340 ft. **Site 2 of 2 in cluster K** **CA SAN DIEGO CO. SAM**

Relative: **Higher**

Actual: **38 ft.**

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT862

LUST:
Region: STATE
Global Id: T0607303107
Latitude: 32.697907
Longitude: -117.1452265
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/16/1994
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: KH
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: 9UT862
LOC Case Number: H21282-001
File Location: Local Agency
Potential Media Affect: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0607303107
Contact Type: Local Agency Caseworker
Contact Name: KEVIN HEATON
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261

P&L KNEPP TRUCKING (Continued) **S102434817**

City: San Diego
Email: kevin.heaton@sdcounty.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0607303107
Status: Open - Case Begin Date
Status Date: 12/23/1987

Global Id: T0607303107
Status: Completed - Case Closed
Status Date: 06/16/1994

Regulatory Activities:
Global Id: T0607303107
Action Type: ENFORCEMENT
Date: 12/23/1987
Action: Notice of Responsibility

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT862
Local Case: H21282-001
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Remove Contents
Source: Piping
Cause: Unknown
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 12/17/1987
Date Stopped: 12/17/1987
Confirm Date: 12/17/1987
Submit Workplan: Not reported
Prelim Assess: 12/23/1987
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 12/21/1987
Enforce Date: Not reported
Closed Date: 6/16/94
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 26'
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes

P&L KNEPP TRUCKING (Continued) **S102434817**

Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:

Status:	Active
Comp Number:	21282
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	21282
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021282-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	2

Status:	Not reported
Comp Number:	21282
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021282-000002
Tank Status:	Not reported
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

SAN DIEGO CO. HMMD:

P&L KNEPP TRUCKING (Continued) **S102434817**

Facility Id:	123031
Business Type:	6HK20
EPA Id Number:	Not reported
APN:	538-670-12-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	03/31/2002
Facility Owner:	Not reported
Facility Address:	Not reported
Facility City:	Not reported
Facility State:	Not reported
Facility Zip:	Not reported
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

Facility Id:	121282
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-672-04-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	Not reported
Facility Address:	Not reported
Facility City:	Not reported
Facility State:	Not reported
Facility Zip:	Not reported
UST Owner:	BIG BEAR SUPER MARKET NO. 3
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 121282 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	121282
Tank Type:	UNKNOWN
Additional Id:	#2
Capacity Gallons:	550
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1987-12-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	24
UST Monitor Method:	VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

UST Name:	UNDERGROUND TANK 121282 T002

P&L KNEPP TRUCKING (Continued) **S102434817**

Last Update:	2012-11-02 14:17:38
Permit Number:	121282
Tank Type:	UNKNOWN
Additional Id:	#1
Capacity Gallons:	8000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1987-12-17 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	24
UST Monitor Method:	VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

Facility Id:	123030
Business Type:	6HK20
EPA Id Number:	Not reported
APN:	538-670-12-00
Last HMMD Inspection:	04/04/1990
Permit Status:	INAC
Permit Expiration:	04/04/1990
Facility Owner:	Not reported
Facility Address:	Not reported
Facility City:	Not reported
Facility State:	Not reported
Facility Zip:	Not reported
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

SAN DIEGO CO. SAM:

Case Number:	H21282-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	6/16/1994
Date Began:	12/17/1987

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79 **RESTAURANT DEPOT** **CA LUST S110711898**
NNW **1335 CESAR E CHAVEZ WAY** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.256 mi.
1352 ft.

Relative:
Higher

Actual:
24 ft.

LUST:

Region:	STATE
Global Id:	T10000002783
Latitude:	32.697045
Longitude:	-117.147425
Case Type:	LUST Cleanup Site

RESTAURANT DEPOT (Continued) **S110711898**

Status:	Completed - Case Closed
Status Date:	01/10/2013
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	CB
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	213206-001
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Refer to "Site Maps/Documents" tab for closure summary/letter.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T10000002783
Contact Type:	Local Agency Caseworker
Contact Name:	CRAIG BURNETT
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	SAN DIEGO
Email:	craig.burnett@sdcounty.ca.gov
Phone Number:	8585056978

Status History:

Global Id:	T10000002783
Status:	Open - Site Assessment
Status Date:	01/13/2011
Global Id:	T10000002783
Status:	Open - Case Begin Date
Status Date:	01/13/2011
Global Id:	T10000002783
Status:	Completed - Case Closed
Status Date:	01/10/2013

Regulatory Activities:

Global Id:	T10000002783
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped
Global Id:	T10000002783
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T10000002783
Action Type:	ENFORCEMENT
Date:	02/16/2011
Action:	Technical Correspondence / Assistance / Other
Global Id:	T10000002783
Action Type:	ENFORCEMENT
Date:	07/05/2011
Action:	Technical Correspondence / Assistance / Other

RESTAURANT DEPOT (Continued) **S110711898**

Global Id:	T10000002783
Action Type:	ENFORCEMENT
Date:	01/26/2011
Action:	*Notice of Responsibility*
Global Id:	T10000002783
Action Type:	ENFORCEMENT
Date:	01/10/2013
Action:	Closure/No Further Action Letter
Global Id:	T10000002783
Action Type:	ENFORCEMENT
Date:	04/09/2012
Action:	Technical Correspondence / Assistance / Other
Global Id:	T10000002783
Action Type:	ENFORCEMENT
Date:	08/07/2012
Action:	Technical Correspondence / Assistance / Other
Global Id:	T10000002783
Action Type:	RESPONSE
Date:	05/31/2011
Action:	Soil and Water Investigation Workplan - Regulator Responded
Global Id:	T10000002783
Action Type:	RESPONSE
Date:	05/22/2012
Action:	Site Assessment Report - Regulator Responded
Global Id:	T10000002783
Action Type:	RESPONSE
Date:	10/04/2012
Action:	Monitoring Report - Quarterly - Regulator Responded

J80 **SAN DIEGO EXPRESS INC** **RCRA-SQG 1000110768**
ENE **2304 MAIN ST** **CA SWEEPS UST CAD982342610**
1/4-1/2 **SAN DIEGO, CA 92113** **CA San Diego Co. HMMD**
0.262 mi. **CA SAN DIEGO CO. SAM**
1384 ft. **Site 4 of 5 in cluster J**

Relative: **Higher**

Actual: **40 ft.**

RCRA-SQG:

Date form received by agency:	01/04/1988
Facility name:	SAN DIEGO EXPRESS INC
Facility address:	2304 MAIN ST SAN DIEGO, CA 92113
EPA ID:	CAD982342610
Mailing address:	PO BOX 13159 SAN DIEGO, CA 92113
Contact:	ENVIRONMENTAL MANAGER
Contact address:	2304 MAIN ST SAN DIEGO, CA 92113
Contact country:	US
Contact telephone:	(619) 268-4855
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator

SAN DIEGO EXPRESS INC (Continued) **1000110768**

Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	DEWITT TRANSFER STORAGE
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED
	NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Violation Status: No violations found

SWEEPS UST:

Status:	Active
Comp Number:	15812
Number:	9
Board Of Equalization:	44-022927
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-015812-000003
Tank Status:	A

SAN DIEGO EXPRESS INC (Continued) **1000110768**

Capacity: 500
Active Date: Not reported
Tank Use: PETROLEUM
STG: W
Content: Not reported
Number Of Tanks: 1

Status: Not reported
Comp Number: 15812
Number: Not reported
Board Of Equalization: 44-022927
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-015812-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 2

Status: Not reported
Comp Number: 15812
Number: Not reported
Board Of Equalization: 44-022927
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-015812-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: Not reported

SAN DIEGO CO. HMMD:
Facility Id: 115812
Business Type: Not reported
EPA Id Number: Not reported
APN: 538-741-01-00
Last HMMD Inspection: 03/19/1990
Permit Status: INAC
Permit Expiration: Not reported
Facility Owner: DEWITT TRANSFER & ST
Facility Address: P O BOX 13159
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92170-3159
UST Owner: DEWITT TRANSFER & ST
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported

SAN DIEGO EXPRESS INC (Continued) **1000110768**

Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:
UST Name: UNDERGROUND TANK 115812 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 115812
Tank Type: UNKNOWN
Additional Id: 1
Capacity Gallons: 10000
UST Contents: REGULAR UNLEADED
Other Content Info: REGULAR UNLEADED
Reg Status: REMOVED
Remove Close Date: 1992-06-03 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 115812 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 115812
Tank Type: UNKNOWN
Additional Id: 2
Capacity Gallons: 10000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1992-06-03 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 115812 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 115812
Tank Type: UNKNOWN
Additional Id: 3
Capacity Gallons: 500
UST Contents: Not reported
Other Content Info: WASTE OIL
Reg Status: REMOVED
Remove Close Date: 1992-06-03 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 07
UST Monitor Method: SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

SAN DIEGO EXPRESS INC (Continued) **1000110768**

SAN DIEGO CO. SAM:
- Case Number: H15812-001
- Agency: DEH Site Assessment & Mitigation
- **Funding:** **LOP - Federal Fund**
- Facility Type: Soils Only
- Facility Status: Closed Case
- Date: 6/20/1996
- Date Began: 3/6/1992

J81 **SAN DIEGO EXPRESS INC** **CA HIST CORTESE** **S101302066**
ENE **2304 MAIN ST** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.262 mi.
1384 ft. **Site 5 of 5 in cluster J**

Relative:
Higher

Actual:
40 ft.

HIST CORTESE:
- Region: CORTESE
- Facility County Code: 37
- Reg By: LTNKA
- Reg Id: 9UT2130

LUST:
- Region: STATE
- Global Id: T0607300899
- Latitude: 32.6944352
- Longitude: -117.139943
- Case Type: LUST Cleanup Site
- Status: Completed - Case Closed
- Status Date: 06/20/1996
- Lead Agency: SAN DIEGO COUNTY LOP
- Case Worker: Not reported
- Local Agency: Not reported
- RB Case Number: 9UT2130
- LOC Case Number: H15812-001
- File Location: Local Agency
- Potential Media Affect: Not reported
- Potential Contaminants of Concern: Not reported
- Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
- Global Id: T0607300899
- Status: Completed - Case Closed
- Status Date: 06/20/1996

- Global Id: T0607300899
- Status: Open - Case Begin Date
- Status Date: 03/09/1992

Regulatory Activities:
- Global Id: T0607300899
- Action Type: ENFORCEMENT
- Date: 03/20/1992
- Action: Notice of Responsibility

SAN DIEGO EXPRESS INC (Continued) **S101302066**

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT2130
Local Case:	H15812-001
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	Other Means
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	03/06/1992
Date Stopped:	03/06/1992
Confirm Date:	03/06/1992
Submit Workplan:	Not reported
Prelim Assess:	03/09/1992
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	03/06/1992
Enforce Date:	Not reported
Closed Date:	6/20/96
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	>15
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	Low priority. Priority ranking can change over time.
File Dispn:	File discarded, case closed
Interim Remedial Actions:	No
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

M82 **CARLSON AND BEAULOYE** **CA LUST S102426355**
NE **2141 NEWTON AVE** **CA SWEEPS UST N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.272 mi.
1438 ft. **Site 1 of 5 in cluster M**

Relative:
Higher

Actual:
54 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT1576
Local Case:	H08980-001
Substance:	Chromic Acid
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Tank Closure

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CARLSON AND BEAULOYE (Continued) **S102426355**

How Stopped: Close Tank
Source: Other Source
Cause: Overfill
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 11/01/1989
Date Stopped: 11/01/1989
Confirm Date: 11/20/1989
Submit Workplan: Not reported
Prelim Assess: / /
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 11/20/1989
Enforce Date: Not reported
Closed Date: 12/9/92
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 8980
Number: 9
Board Of Equalization: 44-022424
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-008980-000003
Tank Status: A
Capacity: 1000
Active Date: Not reported
Tank Use: OIL
STG: P
Content: Not reported
Number Of Tanks: 2

Status: Active
Comp Number: 8980
Number: 9
Board Of Equalization: 44-022424
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-008980-000004
Tank Status: A

CARLSON AND BEAULOYE (Continued) **S102426355**

Capacity:	1000
Active Date:	Not reported
Tank Use:	OIL
STG:	P
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	8980
Number:	Not reported
Board Of Equalization:	44-022424
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-008980-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	2
Status:	Not reported
Comp Number:	8980
Number:	Not reported
Board Of Equalization:	44-022424
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-008980-000002
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

M83 **CARLSON & BEAULOYE MACHINE SHOP** **RCRA-SQG** **1000292448**
NE **2141 NEWTON AVE** **CA HIST CORTESE** **CAD008232860**
1/4-1/2 **SAN DIEGO, CA 92113** **CA LUST**
0.272 mi. **CA San Diego Co. HMMD**
1438 ft. **Site 2 of 5 in cluster M** **CA HAZNET**
CA EMI
Relative: **CA SAN DIEGO CO. SAM**
Higher **US AIRS**

Actual: **54 ft.**

RCRA-SQG:

Date form received by agency:	09/01/1996
Facility name:	CARLSON & BEAULOYE MACHINE SHOP
Facility address:	2141 NEWTON AVE SAN DIEGO, CA 92113
EPA ID:	CAD008232860
Contact:	Not reported
Contact address:	Not reported

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: RONALD A BEAULOYE SR
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/16/1981
Site name: CARLSON & BEAULOYE MACHINE SHOP
Classification: Large Quantity Generator

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Facility Has Received Notices of Violations:
- Regulation violated: FR - 262.10-12.A
- Area of violation: Generators - General
- Date violation determined: 03/18/1994
- Date achieved compliance: 03/18/1999
- Violation lead agency: State
  - Enforcement action: Not reported
  - Enforcement action date: Not reported
  - Enf. disposition status: Not reported
  - Enf. disp. status date: Not reported
  - Enforcement lead agency: Not reported
  - Proposed penalty amount: Not reported
  - Final penalty amount: Not reported
  - Paid penalty amount: Not reported

- Regulation violated: FR - 262.10-12.A
- Area of violation: Generators - General
- Date violation determined: 01/25/1993
- Date achieved compliance: 03/18/1994
- Violation lead agency: State
  - Enforcement action: Not reported
  - Enforcement action date: Not reported
  - Enf. disposition status: Not reported
  - Enf. disp. status date: Not reported
  - Enforcement lead agency: Not reported
  - Proposed penalty amount: Not reported
  - Final penalty amount: Not reported
  - Paid penalty amount: Not reported

- Regulation violated: FR - 262.10-12.A
- Area of violation: Generators - General
- Date violation determined: 09/16/1991
- Date achieved compliance: 01/25/1993
- Violation lead agency: State
  - Enforcement action: Not reported
  - Enforcement action date: Not reported
  - Enf. disposition status: Not reported
  - Enf. disp. status date: Not reported
  - Enforcement lead agency: Not reported
  - Proposed penalty amount: Not reported
  - Final penalty amount: Not reported
  - Paid penalty amount: Not reported

Evaluation Action Summary:
- Evaluation date: 03/18/1994
- Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
- Area of violation: Generators - General
- Date achieved compliance: 03/18/1999
- Evaluation lead agency: State Contractor/Grantee

- Evaluation date: 01/25/1993
- Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
- Area of violation: Generators - General
- Date achieved compliance: 03/18/1994
- Evaluation lead agency: State Contractor/Grantee

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Evaluation date: 09/16/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 01/25/1993
Evaluation lead agency: State Contractor/Grantee

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1576

LUST:
Region: STATE
Global Id: T0607300396
Latitude: 32.6971142
Longitude: -117.1419241
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/09/1992
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT1576
LOC Case Number: H08980-001
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Other Acid or Corrosive
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607300396
Status: Open - Case Begin Date
Status Date: 11/01/1989

Global Id: T0607300396
Status: Completed - Case Closed
Status Date: 12/09/1992

Regulatory Activities:
Global Id: T0607300396
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607300396
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607300396
Action Type: Other
Date: 01/01/1950
Action: Leak Began

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Global Id:	T0607300396
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

SAN DIEGO CO. HMMD:

Facility Id:	108980
Business Type:	6HK35
EPA Id Number:	CAD008232860
APN:	538-680-28-00
Last HMMD Inspection:	08/08/2012
Permit Status:	OPEN
Permit Expiration:	01/31/2013
Facility Owner:	RONALD BEAULOYE
Facility Address:	2141 NEWTON AV
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2210
UST Owner:	H BEAULOYE R BEAULOYE COLEMAN
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 108980 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	108980
Tank Type:	SINGLE WALL
Additional Id:	1 CHROMIC ACID
Capacity Gallons:	1000
UST Contents:	Not reported
Other Content Info:	CHROMIC ACID
Reg Status:	REMOVED
Remove Close Date:	1989-01-11 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	04
UST Monitor Method:	SW TANK DW PRESSURE PIPE W/RESTRICTIVE LLD W/SIRS: SIR ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 108980 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	108980
Tank Type:	SINGLE WALL
Additional Id:	2 CHROMIC ACID
Capacity Gallons:	1000
UST Contents:	Not reported
Other Content Info:	CHROMIC ACID
Reg Status:	REMOVED
Remove Close Date:	1989-01-11 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported

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CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Delivery System: Not reported
Monitor Code: 04
UST Monitor Method: SW TANK DW PRESSURE PIPE W/RESTRICTIVE LLD W/SIRS: SIR ANALYSIS MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 108980 T003
Last Update: 2012-11-02 14:17:38
Permit Number: 108980
Tank Type: SINGLE WALL
Additional Id: 00003 CHROMIC ACID
Capacity Gallons: 1000
UST Contents: Not reported
Other Content Info: GASOLINE & WASTE OIL
Reg Status: REMOVED
Remove Close Date: 1989-01-11 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: GRAVITY
Monitor Code: 24
UST Monitor Method: VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

UST Name: UNDERGROUND TANK 108980 T004
Last Update: 2012-11-02 14:17:38
Permit Number: 108980
Tank Type: SINGLE WALL
Additional Id: 00004 CHROMIC ACID
Capacity Gallons: 1000
UST Contents: Not reported
Other Content Info: GASOLINE & WASTE OIL
Reg Status: REMOVED
Remove Close Date: 1989-01-11 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: GRAVITY
Monitor Code: 24
UST Monitor Method: VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

Active Permits:
Facility Id: 108980
Update Date: 11/02/2012
Case Number: 74-86-2
Name: ACETYLENE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Facility Id: 108980
Update Date: 11/02/2012
Case Number: MIXTURE
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information: SLUDGE/DRY WASTE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 108980

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CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Update Date:	11/02/2012
Case Number:	1310-73-2
Name:	SODIUM HYDROXIDE 50%
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	REACTIVE
Hazardous Categories 2:	ACUTE
Facility Id:	108980
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	OIL: LUBRICATING, CUTTING
Other Information:	PROCESS EQUIPMENT
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported
Facility Id:	108980
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 171 METAL SLUDGE
Other Information:	CHROME FILTERS - TANK LNR
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	108980
Update Date:	11/02/2012
Case Number:	7738-94-5
Name:	CHROMIC ACID SOLN; PLATING TANKS VAULTED
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	CHRONIC
Facility Id:	108980
Update Date:	11/02/2012
Case Number:	7440-47-3
Name:	CHROMIC ACID FLAKE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	EXTREMELY HAZARDOUS
Facility Id:	108980
Update Date:	11/02/2012
Case Number:	7782-42-7
Name:	OXYGEN
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE
Facility Id:	108980
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Other Information: OILS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 108980
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 444 USED BATTERIES
Other Information: USED LEAD ACID BATTERIES
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 108980
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: COMPRESSOR OIL AND DIESEL FILTERS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 12/07/2007
Violation Code: 6HV0407
Violation: EMPLOYEE TRAINING NOT ADEQUATE
Violation Citation: Employee training program for small quantity generator of hazardous waste is inadequate. CFR 262.34(d)(5)(iii)
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 08/08/2012
Violation Code: 6HV3101
Violation: UPF PERMIT NOT CURRENT/ONSITE
Violation Citation: Current UPF permit not obtained/not available. 25284; 68.905, 68.1003, 68.1005
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 12/07/2007
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 05/26/2004
Violation Code: 6HV0401
Violation: TRAINING RECORDS UNAVAILABLE
Violation Citation: Personnel training records are not maintained to document compliance

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

with requirements for current and former employees. CCR 66265.16(d)&(e)
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 12/07/2007
Violation Code: 6HV0226
Violation: HW NOT ACCUMULATED IN TANK/CONTAINER
Violation Citation: Did not accumulate waste in container or tank. 66262.34 (d)(2)
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 05/26/2004
Violation Code: 6HV1004
Violation: HMBP NOT SUBMITTED TO HMD
Violation Citation: Hazardous Materials Handler has not submitted a completed Business Plan to the HMMD. HSC 25505(a)
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 08/11/2009
Violation Code: 6HV0234
Violation: FACILITY NOT OPERATED TO MINIM. RELEASE
Violation Citation: Did not maintain &/or operate facility to prevent release or fire. CFR 265.31
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 08/08/2012
Violation Code: 6HV0135
Violation: MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation: Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 01/19/2006
Violation Code: 6HV1003
Violation: HMBP NOT AMENDED W/IN 30 DAYS
Violation Citation: Business plan was not amended within 30 days for a 100% quantity increase, new disclosable materials or a change in business info. HSC 25505
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 05/26/2004
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2);

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

Facility Id: 108980
Update Date: 11/02/2012
Inspection Date: 12/07/2007
Violation Code: 6HV0234
Violation: FACILITY NOT OPERATED TO MINIM. RELEASE
Violation Citation: Did not maintain &/or operate facility to prevent release or fire. CFR 265.31
Activity: ACTIVE

HAZNET:
Year: 2012
Gepaid: CAD008232860
Contact: BRITTANY MALLORY-OFFICE MGR
Telephone: 6192325719
Mailing Name: Not reported
Mailing Address: 2141 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: San Diego
TSD EPA ID: CAD028409019
TSD County: Los Angeles
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.35
Facility County: San Diego

Year: 2012
Gepaid: CAD008232860
Contact: BRITTANY MALLORY-OFFICE MGR
Telephone: 6192325719
Mailing Name: Not reported
Mailing Address: 2141 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: San Diego
TSD EPA ID: CAD982444481
TSD County: San Bernardino
Waste Category: Not reported
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.65
Facility County: San Diego

Year: 2011
Gepaid: CAD008232860
Contact: BRITTANY MALLORY-OFFICE MGR
Telephone: 6192325719
Mailing Name: Not reported
Mailing Address: 2141 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: Not reported
TSD EPA ID: CAD028409019
TSD County: Not reported
Waste Category: Other inorganic solid waste

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.125
Facility County: San Diego

Year: 2011
Gepaid: CAD008232860
Contact: BRITTANY MALLORY-OFFICE MGR
Telephone: 6192325719
Mailing Name: Not reported
Mailing Address: 2141 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: Not reported
TSD EPA ID: CAD982444481
TSD County: Not reported
Waste Category: Unspecified oil-containing waste
Disposal Method: Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.65
Facility County: San Diego

Year: 2010
Gepaid: CAD008232860
Contact: BRITTANY MALLORY-OFFICE MGR
Telephone: 6192325719
Mailing Name: Not reported
Mailing Address: 2141 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: Not reported
TSD EPA ID: NVT330010000
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons: 0.175
Facility County: San Diego

Click this hyperlink while viewing on your computer to access
39 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:

Year:	1998
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.0495
Reactive Organic Gases Tons/Yr:	0.0495
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.000393412
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.000393412

Year:	2005
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.04
Reactive Organic Gases Tons/Yr:	.04
Carbon Monoxide Emissions Tons/Yr:	0

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.000409375
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.000393
Year:	2006
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.04
Reactive Organic Gases Tons/Yr:	.04
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.000393412
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.000393412
Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.04
Reactive Organic Gases Tons/Yr:	.04
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.000384
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.000384
Year:	2009
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5.0000000000000003E-2
Reactive Organic Gases Tons/Yr:	5.0000000000000003E-2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2010

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	4.0000000000000001E-2
Reactive Organic Gases Tons/Yr:	4.0000000000000001E-2
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	3.8400000000000001E-4
Part. Matter 10 Micrometers & Smllr Tons/Yr:	3.8400000000000001E-4

Year:	2011
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.05
Reactive Organic Gases Tons/Yr:	0.05
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2012
County Code:	37
Air Basin:	SD
Facility ID:	92177
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.05
Reactive Organic Gases Tons/Yr:	0.05
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

SAN DIEGO CO. SAM:

Case Number:	H08980-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - For Non-LOP Tank**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	12/9/1992

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

Date Began: 11/1/1989

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110031041520
Plant name:	CARLSON & BEAULOYE MACHINE SHOP INC
Plant address:	2141 NEWTON AVE SAN DIEGO, CA 92113
County:	SAN DIEGO
Region code:	09
Dunn & Bradst #:	Not reported
Air quality cntrl region:	029
Sic code:	9999
Sic code desc:	NONCLASSIFIABLE ESTABLISHMENTS
North Am. industrial classf:	333319
NAIC code description:	Other Commercial and Service Industry Machinery Manufacturing
Default compliance status:	IN COMPLIANCE - INSPECTION
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

Air program:	SIP SOURCE
National action type:	Not reported
Date achieved:	00000
Penalty amount:	Not reported

Historical Compliance Minor Sources:

State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1004
Air prog code hist file:	MACT (SECTION 63 NESHAPS)
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1103
Air prog code hist file:	MACT (SECTION 63 NESHAPS)
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1201
Air prog code hist file:	MACT (SECTION 63 NESHAPS)
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1204
Air prog code hist file:	MACT (SECTION 63 NESHAPS)
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1302
Air prog code hist file:	MACT (SECTION 63 NESHAPS)
State compliance status:	IN COMPLIANCE - INSPECTION
Hist compliance date:	1101
Air prog code hist file:	MACT (SECTION 63 NESHAPS)

CARLSON & BEAULOYE MACHINE SHOP (Continued) **1000292448**

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1102
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1301
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE - INSPECTION
Hist compliance date: 1303
Air prog code hist file: MACT (SECTION 63 NESHAPS)

Compliance & Violation Data by Minor Sources:
Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: VOLATILE ORGANIC COMPOUNDS
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE - INSPECTION
Def. attainment/non attnmnt: SERIOUS (FOR VOC, NO, CO AND PARTICULATE) 2
Repeat violator date: Not reported
Turnover compliance: Not reported

84
NE
1/4-1/2
0.275 mi.
1450 ft.

PRAXAIR
2205 NEWTON AV
SAN DIEGO, CA 92113

CA LUST **S108540442**
CA SAN DIEGO CO. SAM **N/A**

Relative:
Higher

Actual:
54 ft.

LUST:
Region: STATE
Global Id: T0619734913
Latitude: 32.696009
Longitude: -117.140825
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 12/19/2008
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: EM
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: Not reported
LOC Case Number: 102702-001
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

PRAXAIR (Continued) **S108540442**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0619734913
Contact Type:	Local Agency Caseworker
Contact Name:	EWAN MOFFAT
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	ewan.moffat@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0619734913
Status:	Open - Verification Monitoring
Status Date:	12/14/2007
Global Id:	T0619734913
Status:	Open - Case Begin Date
Status Date:	03/03/2007
Global Id:	T0619734913
Status:	Completed - Case Closed
Status Date:	12/19/2008

Regulatory Activities:

Global Id:	T0619734913
Action Type:	ENFORCEMENT
Date:	04/06/2007
Action:	Notice of Responsibility
Global Id:	T0619734913
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped
Global Id:	T0619734913
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0619734913
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0619734913
Action Type:	ENFORCEMENT
Date:	12/19/2008
Action:	Closure/No Further Action Letter
Global Id:	T0619734913
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began

PRAXAIR (Continued) **S108540442**

SAN DIEGO CO. SAM:
Case Number: 102702-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Closed Case
Date: 12/19/2008
Date Began: 3/3/2007

M85 **MASTER PLATING** **RCRA-SQG 1000401457**
NNE **2109 NEWTON AVE** **ICIS CAD067629311**
1/4-1/2 **SAN DIEGO, CA 92113** **CA San Diego Co. HMMD**
0.275 mi. **CA HAZNET**
1451 ft. **Site 3 of 5 in cluster M** **CA EMI**
CA ENVIROSTOR

Relative:
Higher

Actual:
52 ft.

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: MASTER PLATING
Facility address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
EPA ID: CAD067629311
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: CASTRO ROBERT
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

MASTER PLATING (Continued) **1000401457**

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No

Historical Generators:
- Date form received by agency: 12/18/1985
- Site name: MASTER PLATING
- Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
- Regulation violated: FR - 262.10-12.A
- Area of violation: Generators - General
- Date violation determined: 10/23/1991
- Date achieved compliance: 10/23/1996
- Violation lead agency: State
- Enforcement action: Not reported
- Enforcement action date: Not reported
- Enf. disposition status: Not reported
- Enf. disp. status date: Not reported
- Enforcement lead agency: Not reported
- Proposed penalty amount: Not reported
- Final penalty amount: Not reported
- Paid penalty amount: Not reported

Evaluation Action Summary:
- Evaluation date: 10/23/1991
- Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
- Area of violation: Generators - General
- Date achieved compliance: 10/23/1996
- Evaluation lead agency: State Contractor/Grantee

ICIS:
- Enforcement Action ID: 09-2003-0026
- FRS ID: 110002655234
- Program ID: NEI 060733712278621
- Action Name: MASTER PLATING
- Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
- State: California
- Facility Name: MASTER PLATING
- Facility Address: 2109 NEWTON AVE
  SAN DIEGO, CA 92113
- Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
- Facility County: SAN DIEGO

MASTER PLATING (Continued) **1000401457**

EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: FRS 110002655234
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: RCRAINFO CAD067629311
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: NCDB I09#19900619R9001 3
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: PAKAN INC (MASTER PLATING)
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: NEI NEICA0732934
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: Not reported
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 106 AO For Resp Action/Imm Haz
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: OSHA-IMIS 116577

MASTER PLATING (Continued) **1000401457**

Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	Not reported
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	*09-2003-0026*
FRS ID:	110002655234
Program ID:	ACRES 12142
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 122A/104A Agrmt For RI/FS
Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	AIRS/AFS 06073R9813
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 122A/104A Agrmt For RI/FS
Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	CERCLIS CAN000905947
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 122A/104A Agrmt For RI/FS
Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	FRS 110002655234
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE

MASTER PLATING (Continued) **1000401457**

SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: NEI 060733712278621
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: NEI NTICA0732934
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: RCRAINFO CAD067629311
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: NCDB I09#19900619R9001 3
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: PAKAN INC (MASTER PLATING)
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 122A/104A Agrmt For RI/FS
Facility County: SAN DIEGO
EPA Region #: 9

MASTER PLATING (Continued) **1000401457**

Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	NEI NEICA0732934
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	Not reported
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 122A/104A Agrmt For RI/FS
Facility County:	SAN DIEGO
EPA Region #:	9

Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	OSHA-IMIS 116577
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	Not reported
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 122A/104A Agrmt For RI/FS
Facility County:	SAN DIEGO
EPA Region #:	9

Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	ACRES 12142
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 104E5A AO For Access And/Or Info
Facility County:	SAN DIEGO
EPA Region #:	9

Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	AIRS/AFS 06073R9813
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 104E5A AO For Access And/Or Info
Facility County:	SAN DIEGO
EPA Region #:	9

Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	CERCLIS CAN000905947
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113

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MASTER PLATING (Continued) **1000401457**

State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: FRS 110002655234
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: NEI 060733712278621
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: NEI NTICA0732934
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info
Facility County: SAN DIEGO
EPA Region #: 9

Enforcement Action ID: 09-2003-0026
FRS ID: 110002655234
Program ID: RCRAINFO CAD067629311
Action Name: MASTER PLATING
Full Address: 2109 NEWTON AVE SAN DIEGO CA 92113
State: California
Facility Name: MASTER PLATING
Facility Address: 2109 NEWTON AVE
SAN DIEGO, CA 92113
Enforcement Action Type: CERCLA 104E5A AO For Access And/Or Info

MASTER PLATING (Continued) **1000401457**

Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	NCDB I09#19900619R9001 3
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	PAKAN INC (MASTER PLATING)
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 104E5A AO For Access And/Or Info
Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	NEI NEICA0732934
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	Not reported
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 104E5A AO For Access And/Or Info
Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	OSHA-IMIS 116577
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	Not reported
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 104E5A AO For Access And/Or Info
Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	ACRES 12142
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	SAN DIEGO
EPA Region #:	9
Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234

MASTER PLATING (Continued) **1000401457**

Program ID:	AIRS/AFS 06073R9813
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	SAN DIEGO
EPA Region #:	9

Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	CERCLIS CAN000905947
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	SAN DIEGO
EPA Region #:	9

Enforcement Action ID:	09-2003-0026
FRS ID:	110002655234
Program ID:	NEI NTICA0732934
Action Name:	MASTER PLATING
Full Address:	2109 NEWTON AVE SAN DIEGO CA 92113
State:	California
Facility Name:	MASTER PLATING
Facility Address:	2109 NEWTON AVE SAN DIEGO, CA 92113
Enforcement Action Type:	CERCLA 106 AO For Resp Action/Imm Haz
Facility County:	SAN DIEGO
EPA Region #:	9

Program ID:	ACRES 12142
Facility Name:	MASTER PLATING
Address:	2109 NEWTON AVE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Program ID:	AIRS/AFS 06073R9813
Facility Name:	MASTER PLATING
Address:	2109 NEWTON AVE
Tribal Indicator:	N
Fed Facility:	No
NAIC Code:	Not reported
SIC Code:	Not reported

Program ID:	CERCLIS CAN000905947
Facility Name:	MASTER PLATING
Address:	2109 NEWTON AVE

MASTER PLATING (Continued) **1000401457**

Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: FRS 110002655234
Facility Name: MASTER PLATING
Address: 2109 NEWTON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: NCDB I09#19900619R9001 3
Facility Name: MASTER PLATING
Address: 2109 NEWTON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: NEI 060733712278621
Facility Name: MASTER PLATING
Address: 2109 NEWTON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: NEI NEICA0732934
Facility Name: MASTER PLATING
Address: 2109 NEWTON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: NEI NTICA0732934
Facility Name: MASTER PLATING
Address: 2109 NEWTON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: OSHA-IMIS 116577
Facility Name: MASTER PLATING
Address: 2109 NEWTON AVE
Tribal Indicator: N
Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

Program ID: RCRAINFO CAD067629311
Facility Name: MASTER PLATING
Address: 2109 NEWTON AVE
Tribal Indicator: N

MASTER PLATING (Continued) **1000401457**

Fed Facility: No
NAIC Code: Not reported
SIC Code: Not reported

SAN DIEGO CO. HMMD:
Facility Id: 108549
Business Type: 6HK34
EPA Id Number: CAD067629311
APN: 538-680-19-00
Last HMMD Inspection: 02/26/2002
Permit Status: INAC
Permit Expiration: 01/31/2003
Facility Owner: MOHAMED AFCARI
Facility Address: 2109 NEWTON AV
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92113-2210
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Y
Generate Medical Waste: Not reported

HAZNET:
Year: 2003
Gepaid: CAD067629311
Contact: MAX AFCARI
Telephone: 6192323092
Mailing Name: Not reported
Mailing Address: 2109 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: Not reported
TSD EPA ID: CAT000646117
TSD County: Not reported
Waste Category: Other inorganic solid waste
Disposal Method: Disposal, Other
Tons: 29.49
Facility County: San Diego

Year: 2002
Gepaid: CAD067629311
Contact: MAX AFCARI
Telephone: 6192323092
Mailing Name: Not reported
Mailing Address: 2109 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: Not reported
TSD EPA ID: CAT080033681
TSD County: Not reported
Waste Category: Unspecified aqueous solution
Disposal Method: Recycler
Tons: 9.71
Facility County: San Diego

MASTER PLATING (Continued) **1000401457**

Year: 2002
Gepaid: CAD067629311
Contact: MAX AFCARI
Telephone: 6192323092
Mailing Name: Not reported
Mailing Address: 2109 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: Not reported
TSD EPA ID: AZD980892731
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Not reported
Tons: 0.37
Facility County: San Diego

Year: 2002
Gepaid: CAD067629311
Contact: MAX AFCARI
Telephone: 6192323092
Mailing Name: Not reported
Mailing Address: 2109 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: Not reported
TSD EPA ID: AZD980892731
TSD County: Not reported
Waste Category: Other organic solids
Disposal Method: Disposal, Land Fill
Tons: 1.12
Facility County: San Diego

Year: 2002
Gepaid: CAD067629311
Contact: MAX AFCARI
Telephone: 6192323092
Mailing Name: Not reported
Mailing Address: 2109 NEWTON AVE
Mailing City,St,Zip: SAN DIEGO, CA 921130000
Gen County: Not reported
TSD EPA ID: CAD097030993
TSD County: Not reported
Waste Category: Liquids with cyanides >= 1,000 Mg./L
Disposal Method: Transfer Station
Tons: 1.6
Facility County: San Diego

Click this hyperlink while viewing on your computer to access
25 additional CA_HAZNET: record(s) in the EDR Site Report.

EMI:
Year: 1998
County Code: 37
Air Basin: SD
Facility ID: 8621
Air District Name: SD
SIC Code: 3471
Air District Name: SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System: Not reported

MASTER PLATING (Continued) **1000401457**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	1999
County Code:	37
Air Basin:	SD
Facility ID:	8621
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	8621
Air District Name:	SD
SIC Code:	3471
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

ENVIROSTOR:

Facility ID:	71003723
Status:	Inactive - Needs Evaluation
Status Date:	09/14/2011
Site Code:	401574
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.16
NPL:	NO
Regulatory Agencies:	SAN DIEGO COUNTY
Lead Agency:	SAN DIEGO COUNTY
Program Manager:	Not reported
Supervisor:	Robert Senga
Division Branch:	Cleanup Cypress

MASTER PLATING (Continued) **1000401457**

Assembly:	80
Senate:	40
Special Program:	EPA - PASI
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	32.69714
Longitude:	-117.1424
APN:	5386801900
Past Use:	METAL PLATING - OTHER
Potential COC:	Total Chromium (1:6 ratio Cr VI:Cr III Tetrachloroethylene (PCE 1,1,1-Trichloroethane (TCA Trichloroethylene (TCE Vinyl chloride. Cyanide (free
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	5386801900
Alias Type:	APN
Alias Name:	CAD067629311
Alias Type:	EPA Identification Number
Alias Name:	110002655234
Alias Type:	EPA (FRS #)
Alias Name:	401574
Alias Type:	Project Code (Site Code)
Alias Name:	71003723
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	PA/SI Site Screening
Completed Date:	02/15/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	03/18/2004
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other
Completed Date:	03/18/2004
Comments:	Inspection report sent on 3/18/2004
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

M86 **MASTER PLATING** **US BROWNFIELDS** **1013604209**
NNE **2109 NEWTON AVENUE** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.275 mi.
1451 ft. **Site 4 of 5 in cluster M**

Relative:
Higher

Actual:
52 ft.

US BROWNFIELDS:

Recipient name:	San Diego Redevelopment Agency, City of
Grant type:	Assessment
Property name:	MASTER PLATING
Property #:	538-680-1900
Parcel size:	.15
Property Description:	Not reported
Latitude:	32.69803
Longitude:	-117.14239
HCM label:	Address Matching-House Number
Map scale:	100000
Point of reference:	Entrance Point of a Facility or Station
Datum:	North American Datum of 1983
ACRES property ID:	12142
Start date:	Not reported
Completed date:	Not reported
Acres cleaned up:	Not reported
Cleanup funding:	Not reported
Cleanup funding source:	Not reported
Assessment funding:	Not reported
Assessment funding source:	Not reported
Redevelopment funding:	Not reported
Redev. funding source:	Not reported
Redev. funding entity name:	Not reported
Redevelopment start date:	Not reported
Assessment funding entity:	Not reported
Cleanup funding entity:	Not reported
Grant type:	H
Accomplishment type:	Phase I Environmental Assessment
Accomplishment count:	0
Cooperative agreement #:	99984401
Ownership entity:	Not reported
Current owner:	Not reported
Did owner change:	Not reported
Cleanup required:	Not reported
Video available:	Not reported
Photo available:	Not reported
Institutional controls required:	Not reported
IC Category proprietary controls:	Not reported
IC cat. info. devices:	Not reported
IC cat. gov. controls:	Not reported
IC cat. enforcement permit tools:	Not reported
IC in place date:	Not reported
IC in place:	Unknown
State/tribal program date:	Not reported
State/tribal program ID:	Not reported
State/tribal NFA date:	Not reported
Air contaminated:	Not reported
Air cleaned:	Not reported
Asbestos found:	Not reported
Asbestos cleaned:	Not reported
Controled substance found:	Not reported
Controled substance cleaned:	Not reported

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MASTER PLATING (Continued) **1013604209**

Drinking water affected:	Not reported
Drinking water cleaned:	Not reported
Groundwater affected:	Not reported
Groundwater cleaned:	Not reported
Lead contaminant found:	Not reported
Lead cleaned up:	Not reported
No media affected:	Not reported
Unknown media affected:	Not reported
Other cleaned up:	Not reported
Other metals found:	Not reported
Other metals cleaned:	Not reported
Other contaminants found:	Not reported
Other contams found description:	Not reported
PAHs found:	Not reported
PAHs cleaned up:	Not reported
PCBs found:	Not reported
PCBs cleaned up:	Not reported
Petro products found:	Not reported
Petro products cleaned:	Not reported
Sediments found:	Not reported
Sediments cleaned:	Not reported
Soil affected:	Not reported
Soil cleaned up:	Not reported
Surface water cleaned:	Not reported
VOCs found:	Not reported
VOCs cleaned:	Not reported
Cleanup other description:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
Past use greenspace acreage:	Not reported
Past use residential acreage:	Not reported
Past use commercial acreage:	Not reported
Past use industrial acreage:	Not reported
Future use greenspace acreage:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Future use industrial acreage:	Not reported
Greenspace acreage and type:	Not reported
Superfund Fed. landowner flag:	Not reported
Arsenic cleaned up:	Not reported
Cadmium cleaned up:	Not reported
Chromium cleaned up:	Not reported
Copper cleaned up:	Not reported
Iron cleaned up:	Not reported
mercury cleaned up:	Not reported
nickel cleaned up:	Not reported
No clean up:	Not reported
Pesticides cleaned up:	Not reported
Selenium cleaned up:	Not reported
SVOCs cleaned up:	Not reported
Unknown clean up:	Not reported
Arsenic contaminant found:	Not reported
Cadmium contaminant found:	Not reported
Chromium contaminant found:	Not reported
Copper contaminant found:	Not reported
Iron contaminant found:	Not reported
Mercury contaminant found:	Not reported
Nickel contaminant found:	Not reported

MASTER PLATING (Continued) **1013604209**

No contaminant found:	Not reported
Pesticides contaminant found:	Not reported
Selenium contaminant found:	Not reported
SVOCs contaminant found:	Not reported
Unknown contaminant found:	Not reported
Future Use: Multistory	Not reported
Media affected Bluiding Material:	Not reported
Media affected indoor air:	Not reported
Building material media cleaned up:	Not reported
Indoor air media cleaned up:	Not reported
Unknown media cleaned up:	Not reported
Past Use: Multistory	Not reported

M87 **MASTER PLATING** **CERCLIS 1006426280**
NNE **2109 NEWTON AVE** **PRP CAN000905947**
1/4-1/2 **SAN DIEGO, CA 92113**
0.275 mi.
1451 ft. **Site 5 of 5 in cluster M**

Relative:
Higher

Actual:
52 ft.

CERCLIS:

Site ID:	0905947
EPA ID:	CAN000905947
Facility County:	SAN DIEGO
Short Name:	MASTER PLATING
Congressional District:	Not reported
IFMS ID:	09JZ
SMSA Number:	Not reported
USGC Hydro Unit:	Not reported
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	Not reported
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	R
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	09
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Removal Only Site (No Site Assessment Work Needed)
Non NPL Status Date:	12/09/02
Site Fips Code:	06073
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported

CERCLIS Site Contact Name(s):

Contact ID:	13003854.00000
Contact Name:	Leslie Ramirez
Contact Tel:	(415) 972-3978
Contact Title:	Site Assessment Manager (SAM)

MASTER PLATING (Continued) **1006426280**

Contact Email: Not reported

Contact ID: 13003858.00000
Contact Name: Sharon Murray
Contact Tel: (415) 972-4250
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Contact ID: 13004003.00000
Contact Name: Carl Brickner
Contact Tel: Not reported
Contact Title: Site Assessment Manager (SAM)
Contact Email: Not reported

Alias Comments: Not reported
Site Description: Not reported

CERCLIS Assessment History:

Action Code: 001
Action: ADMINISTRATIVE ORDER ON CONSENT
Date Started: / /
Date Completed: 02/25/03
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: Federal Enforcement
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 02/27/03
Date Completed: 02/27/03
Priority Level: Not reported
Operable Unit: SITEWIDE
Primary Responsibility: EPA In-House
Planning Status: Not reported
Urgency Indicator: Not reported
Action Anomaly: Not reported

Action Code: 001
Action: POTENTIALLY RESPONSIBLE PARTY REMOVAL
Date Started: 02/27/03
Date Completed: 05/20/03
Priority Level: Cleaned up
Operable Unit: SITEWIDE
Primary Responsibility: Responsible Party
Planning Status: Primary
Urgency Indicator: Time Critical
Action Anomaly: Not reported

Action Code: 001
Action: ADMINISTRATIVE RECORDS
Date Started: 07/14/03

MASTER PLATING (Continued) **1006426280**

Date Completed:	07/14/03
Priority Level:	Admin Record Compiled for a Removal Event
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

Action Code:	001
Action:	PRE-CERCLIS SCREENING
Date Started:	/ /
Date Completed:	02/15/12
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

PRP:
PRP name: ROBERT CASTRO

N88 **A.O. REED** **CA LUST** **S102423626**
North **1990 MAIN ST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.287 mi.
1518 ft. **Site 1 of 2 in cluster N**

Relative:
Higher

Actual:
37 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT1106
Local Case:	H00841-001
Substance:	Waste Oil
Qty Leaked:	Not reported
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Tank
Cause:	Structure Failure
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	12/16/1988
Date Stopped:	12/16/1988
Confirm Date:	12/15/1988
Submit Workplan:	Not reported
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	12/16/1988
Enforce Date:	Not reported
Closed Date:	1/1/89

A.O. REED (Continued) **S102423626**

Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 15'
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

N89 **A O REED** **CA HIST CORTESE** **S103639397**
North **1990 MAIN ST** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SWEEPS UST**
0.287 mi. **CA San Diego Co. HMMD**
1518 ft. **Site 2 of 2 in cluster N** **CA SAN DIEGO CO. SAM**

Relative:
Higher

Actual:
37 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1106

LUST:
Region: STATE
Global Id: T0607300114
Latitude: 32.6980211
Longitude: -117.1450986
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 03/21/1989
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT1106
LOC Case Number: H00841-001
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607300114
Status: Open - Case Begin Date
Status Date: 12/15/1988

Global Id: T0607300114
Status: Completed - Case Closed
Status Date: 03/21/1989

Regulatory Activities:
Global Id: T0607300114
Action Type: Other
Date: 01/01/1950

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A O REED (Continued) **S103639397**

Action:	Leak Discovery
Global Id:	T0607300114
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607300114
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607300114
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

SWEEPS UST:

Status:	Not reported
Comp Number:	841
Number:	Not reported
Board Of Equalization:	44-021583
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000841-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	1

SAN DIEGO CO. HMMD:

Facility Id:	100841
Business Type:	6HK03
EPA Id Number:	Not reported
APN:	538-671-09-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	KENNETH RUSSEL
Facility Address:	6720 SAN MIGUEL
Facility City:	LEMON GROVE
Facility State:	CA
Facility Zip:	91945-1327
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

A O REED (Continued) **S103639397**

UST:

UST Name:	UNDERGROUND TANK 100841 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	100841
Tank Type:	SINGLE WALL
Additional Id:	1
Capacity Gallons:	550
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1988-12-15 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SAN DIEGO CO. SAM:

Case Number:	H00841-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	3/21/1989
Date Began:	12/15/1988

O90 **SDG&E** **CA HIST CORTESE** **S104753100**
NNE **2043 NEWTON AV** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA San Diego Co. HMMD**
0.297 mi. **CA SAN DIEGO CO. SAM**
1569 ft. **Site 1 of 2 in cluster O**

Relative:
Higher

Actual:
49 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2363

LUST:

Region:	STATE
Global Id:	T0607301132
Latitude:	32.6978917
Longitude:	-117.1430433
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	04/26/2001
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	SW
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT2363
LOC Case Number:	H32282-001
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline

SDG&E (Continued) **S104753100**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0607301132
Contact Type: Local Agency Caseworker
Contact Name: SCOTT WELDON
Organization Name: SAN DIEGO COUNTY LOP
Address: P.O. Box 129261
City: San Diego
Email: scott.weldon@sdcounty.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0607301132
Status: Completed - Case Closed
Status Date: 04/26/2001

Global Id: T0607301132
Status: Open - Case Begin Date
Status Date: 01/27/1993

Regulatory Activities:
Global Id: T0607301132
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607301132
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607301132
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T0607301132
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

SAN DIEGO CO. HMMD:
Facility Id: 132282
Business Type: Not reported
EPA Id Number: Not reported
APN: 538-672-04-00
Last HMMD Inspection: Not reported
Permit Status: INAC
Permit Expiration: Not reported
Facility Owner: SDG & E
Facility Address: PO BOX 1831
Facility City: SAN DIEGO

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SDG&E (Continued) **S104753100**

Facility State:	CA
Facility Zip:	92112-
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 132282 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	132282
Tank Type:	UNKNOWN
Additional Id:	AT2815
Capacity Gallons:	280
UST Contents:	Not reported
Other Content Info:	GASOLINE & WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1993-01-27 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SAN DIEGO CO. SAM:

Case Number:	H32282-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	4/26/2001
Date Began:	1/27/1993

O91 **MAAC PRO ECT, SDG&E** **CA LUST** **S101302112**
NNE **2043 NEWTON AVE** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.297 mi.
1569 ft. **Site 2 of 2 in cluster O**

Relative:
Higher

Actual:
49 ft.

LUST REG 9:

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT2363
Local Case:	H32282-001
Substance:	Unleaded Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	Close Tank
Source:	Tank
Cause:	Corrosion
Lead Agency:	Local Agency

MAAC PRO ECT, SDG&E (Continued) **S101302112**

Case Type:	Soil only
Date Found:	01/27/1993
Date Stopped:	01/27/1993
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	02/18/1993
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	02/18/1993
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	Not reported
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	3B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

92
NW
1/4-1/2
0.299 mi.
1578 ft.

Relative:
Higher

Actual:
22 ft.

FORMER UNOCAL PIPELINE CA SLIC S106916255
NONE CROSBY & BAY FRONT N/A
SAN DIEGO, CA 92113

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	01/11/1995
Global Id:	T0608163896
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H35321-001
Latitude:	32.6970148422411
Longitude:	-117.148633003235
Case Type:	Cleanup Program Site
Case Worker:	NS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Heating Oil / Fuel Oil
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

P93 **BARRIO STATION INC** **CA SLIC** **S104752316**
ENE **2320 NEWTON AV** **CA San Diego Co. HMMD** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA ENVIROSTOR**
0.326 mi. **CA SAN DIEGO CO. SAM**
1720 ft. **Site 1 of 3 in cluster P**

Relative:
Higher

Actual:
51 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/06/1990
Global Id:	T0608116918
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H29840-001
Latitude:	32.695332
Longitude:	-117.138694
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/21/1994
Global Id:	T0608135393
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H29840-002
Latitude:	32.695332
Longitude:	-117.138694
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	129840
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-742-02-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	BARRIO STATION INC
Facility Address:	2320 NEWTON AV
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-3621
UST Owner:	Not reported

BARRIO STATION INC (Continued) **S104752316**

Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

ENVIROSTOR:
Facility ID: 37330006
Status: Refer: Other Agency
Status Date: 08/21/1995
Site Code: Not reported
Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: * Mmonroy
Division Branch: Cleanup Cypress
Assembly: 80
Senate: 40
Special Program: * CERC2
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 32.69530
Longitude: -117.1387
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 37330006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/07/1994
Comments: CALSITES VALIDATION PROGRAM CONFIRMS NFA FOR DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 06/28/1988
Comments: PRELIM ASSESS DONE PDS: REFERRED TO COUNTY HEALTH FOR UNDER GROUND TANK; NO HISTORY OF HAZARDOUS WASTE ACTIVITY

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/24/1987
Comments: SITE SCREENING DONE PA RECOM BASED ON POSSIBILITY OF ILLEGAL DUMPING OF CLASS 2 OR 3 MATERIALS HERE

BARRIO STATION INC (Continued) **S104752316**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 10/18/1982
Comments: FACILITY IDENTIFIED ID VIA 50 PHONE BOOK

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SAN DIEGO CO. SAM:
Case Number: H29840-002
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 1/21/1994
Date Began: Not reported

Case Number: H29840-001
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 2/6/1990
Date Began: Not reported

P94 **BARRIO SENIOR VILLAS** **CERC-NFRAP 1015732900**
ENE **2330 NEWTON AVE** **RCRA NonGen / NLR CAD982360786**
1/4-1/2 **SAN DIEGO, CA 92102**
0.326 mi.
1720 ft. **Site 2 of 3 in cluster P**

Relative:
Higher

Actual:
51 ft.

CERC-NFRAP:
Site ID: 0903105
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13288401.00000
Person ID: 13003854.00000

Contact Sequence ID: 13293996.00000
Person ID: 13003858.00000

Contact Sequence ID: 13299854.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Assessment History:

BARRIO SENIOR VILLAS (Continued) **1015732900**

Action: DISCOVERY
Date Started: / /
Date Completed: 12/01/87
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 11/29/88
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 11/29/88
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA NonGen / NLR:
Date form received by agency: 06/12/1995
Facility name: BARRIO SENIOR VILLAS
Facility address: 2330 NEWTON AVE
SAN DIEGO, CA 92102
EPA ID: CAD982360786
Mailing address: 22ND ST
SAN DIEGO, CA 92102
Contact: PAMELA JOHANNSEN
Contact address: 610 22ND ST
SAN DIEGO, CA 92102
Contact country: US
Contact telephone: (619) 236-1228
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: BARRIO SENIOR VILLAS INC
Owner/operator address: 610 22ND ST
SAN DIEGO, CA 92102
Owner/operator country: Not reported
Owner/operator telephone: (619) 236-1228
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No

BARRIO SENIOR VILLAS (Continued) **1015732900**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

Q95 **TUNA CLIPPER MARINE** **CA HIST CORTESE** **U001572999**
NNW **1444 CROSBY ST** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SLIC**
0.328 mi. **CA HIST UST**
1730 ft. **Site 1 of 4 in cluster Q** **CA SWEEPS UST**
CA SAN DIEGO CO. SAM

Relative:
Higher

Actual:
30 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2286

LUST:
Region: STATE
Global Id: T0607301052
Latitude: 32.696166137286
Longitude: -117.149212360382
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 03/03/1997
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT2286
LOC Case Number: H05633-002
File Location: Local Agency
Potential Media Affect: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607301052
Status: Completed - Case Closed
Status Date: 03/03/1997

Global Id: T0607301052
Status: Open - Case Begin Date
Status Date: 08/11/1992

Regulatory Activities:
Global Id: T0607301052
Action Type: ENFORCEMENT
Date: 09/21/1992
Action: Notice of Responsibility

LUST REG 9:
Region: 9

TUNA CLIPPER MARINE (Continued) **U001572999**

Status:	Case Closed
Case Number:	9UT2286
Local Case:	H05633-002
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	EDFP
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Tank
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	08/11/1992
Date Stopped:	08/11/1992
Confirm Date:	/ /
Submit Workplan:	Not reported
Prelim Assess:	11/18/1992
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	08/11/1992
Enforce Date:	Not reported
Closed Date:	3/3/97
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	6'
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	1C
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/03/1997
Global Id:	T0608178516
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H05633-001
Latitude:	32.6962022525548
Longitude:	-117.148976325989
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

TUNA CLIPPER MARINE (Continued) **U001572999**

HIST UST:

Region:	STATE
Facility ID:	00000068665
Facility Type:	Other
Other Type:	MARINE FUEL STATION
Total Tanks:	0001
Contact Name:	G. KENNETH ALAMEDA
Telephone:	6192321838
Owner Name:	TUNA CLIPPER MARINE
Owner Address:	1444 CROSBY STREET
Owner City,St,Zip:	SAN DIEGO, CA 92113
Tank Num:	001
Container Num:	1
Year Installed:	1965
Tank Capacity:	00010000
Tank Used for:	WASTE
Type of Fuel:	2
Tank Construction:	Unkown centimeters
Leak Detection:	Pressure Test

SWEEPS UST:

Status:	Active
Comp Number:	5633
Number:	9
Board Of Equalization:	44-022254
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-005633-000001
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	1

SAN DIEGO CO. SAM:

Case Number:	H05633-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	3/3/1997
Date Began:	4/6/1992
Case Number:	H05633-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Closed Case
Date:	3/3/1997
Date Began:	4/6/1992

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
Q96	**TUNA CLIPPER**	**CA LUST**	**S105036552**
NNW	**1444 CROSBY ST**		**N/A**
1/4-1/2	**SAN DIEGO, CA 92101**		
0.328 mi.			
1730 ft.	**Site 2 of 4 in cluster Q**		
Relative: Higher			
Actual: 30 ft.			
Q97	**SANTA FE RAILWAY**	**CA LUST**	**S100725175**
NNW	**1342 CROSBY ST**	**CA SWEEPS UST**	**N/A**
1/4-1/2	**SAN DIEGO, CA 92113**		
0.328 mi.			
1731 ft.	**Site 3 of 4 in cluster Q**		
Relative: Higher			
Actual: 31 ft.			

LUST REG 9:

Region:	9
Status:	Remedial action (cleanup) Underway
Case Number:	9UT2495
Local Case:	H00076-003
Substance:	Regular Gasoline
Qty Leaked:	0
Abate Method:	EDIT
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Other ground water affected
Date Found:	06/03/1993
Date Stopped:	03/15/1993
Confirm Date:	03/15/1993
Submit Workplan:	6/28/93
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	3/15/93
Began Monitor:	Not reported
Release Date:	06/28/1993
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	12'
Beneficial Use:	No Beneficial groundwater use
NPDES Number:	Not reported
Priority:	2B
File Dispn:	File discarded, case closed
Interim Remedial Actions:	Yes
Cleanup and Abatement order Number:	Not reported
Waste Discharge Requirement Number:	Not reported

SWEEPS UST:

Status:	Active
Comp Number:	76
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported

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SANTA FE RAILWAY (Continued) **S100725175**

Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	76
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000076-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	3

Status:	Not reported
Comp Number:	76
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000076-000002
Tank Status:	Not reported
Capacity:	1200
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	76
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000076-000003
Tank Status:	Not reported
Capacity:	1200

SANTA FE RAILWAY (Continued) **S100725175**

Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Q98 **BNSF SAN DIEGO RAILYARD** **CA HIST CORTESE** **S101301969**
NNW **1342 CROSBY ST** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SLIC**
0.328 mi. **CA CHMIRS**
1731 ft. **Site 4 of 4 in cluster Q** **CA San Diego Co. HMMD**
CA WDS

Relative:
Higher

Actual:
31 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1920

Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT2495

LUST:
Region: STATE
Global Id: T0607300700
Latitude: 32.698262785
Longitude: -117.148199871
Case Type: LUST Cleanup Site
Status: Open - Site Assessment
Status Date: 02/02/1993
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: CF
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: 9UT1920
LOC Case Number: H00076-002
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Benzene, Gasoline
Site History: Two underground storage tanks (USTs) and associated piping located within a walled enclosure in the northeastern corner of the BNSF Railyard, an automotive distribution facility in San Diego, California, were removed on February 15, 1991. The single-walled tanks included a 1,760-gallon capacity gasoline UST and a 1,200-gallon capacity gasoline and/or diesel UST. Both tanks had apparently been installed prior to 1960. Five soil samples were collected during the tank and piping removal, as directed by the DEH inspector. Analytical results for the soil samples indicated a maximum concentration of 7,900 milligrams per kilogram (mg/kg) of petroleum hydrocarbons. An abandoned, sand-filled, 2,000-gallon capacity UST was discovered near the eastern property boundary in August 1993 and subsequently removed on September 1, 1993. Soil surrounding the UST had also been impacted by an unauthorized release. The initial investigation in was performed from 1989-1990 and included the drilling and sampling of seven borings and the installation of three groundwater monitoring wells. The maximum

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

detected concentrations of gasoline and diesel in soil samples collected from the borings were 9,800 and 14,000 mg/kg, respectively. Waste oil was detected at a maximum concentration of 4,200 mg/kg. The maximum detected benzene concentration was 5.8 mg/kg in soil. Free product was observed in one well with an apparent thickness of 3.07 feet. The maximum detected concentrations of dissolved-phase gasoline and benzene were 800 micrograms per liter (g/L) and 15 g/L, respectively. Diesel was not detected in groundwater samples collected from the newly-installed monitoring wells. Four additional monitoring wells were installed in May 1991. Free product was observed in two of the new wells with apparent thicknesses of 0.61 and 0.37 feet. A hydrocarbon sheen was noted in a third well. In July 1992, four additional wells were installed at the site and quarterly monitoring and sampling was initiated. Free product was measured in four of the existing site monitoring wells at a maximum apparent thickness of 2.58 feet. The maximum detected dissolved gasoline and benzene concentrations in the groundwater samples collected from the remaining wells were 20,000 and 4,400 g/L. Diesel was not detected in the groundwater samples. A total of 1,200 cubic yards of impacted soil was removed from the proposed building footprint during expansion of the existing main office building in May and June 1993. Excavation proceeded from the ground surface to the water table at a depth of 15 to 17 feet. Petroleum hydrocarbons were detected in soil samples collected during the removal at concentrations up to 18,000 mg/kg. The excavated soil was stockpiled and treated onsite. Excavation of impacted also occurred within the walled enclosure that had housed the USTs removed in February 1991. The soil removal occurred in July 1998 following the demolition of above-ground fuel storage tank foundations. Diesel was detected in soil samples collected from the excavation at a maximum concentration of 3,400 mg/kg. Approximately 698 tons of diesel-impacted soil were removed to a depth of three feet below ground surface (bgs). The impacted soil was transported to an offsite recycling facility. A passive skimmer system was installed at the site to recover free product that was replaced in August 1998 with a total fluids extraction and remediation system. The system was operated until the second half of 2000 when low recovery levels resulted in modifying the system to include one product-only recovery well. Hand bailing was used to recover product in2004 and 2005 and oil absorbent socks have been subsequently used in wells. The total volume of product removed to date is approximately 799 gallons. Four groundwater monitoring wells were installed at the site in June 2005. One of the wells was installed up-gradient of the former UST area in the northeast

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607300700
Contact Type:	Local Agency Caseworker
Contact Name:	CAROL FENNER
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	carol.fenner@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Global Id: T0607300700
Status: Open - Case Begin Date
Status Date: 02/15/1991

Global Id: T0607300700
Status: Open - Site Assessment
Status Date: 02/02/1993

Regulatory Activities:
Global Id: T0607300700
Action Type: RESPONSE
Date: 04/30/2014
Action: Other Report / Document - Regulator Responded

Global Id: T0607300700
Action Type: RESPONSE
Date: 04/30/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0607300700
Action Type: ENFORCEMENT
Date: 07/23/2009
Action: Letter - Notice

Global Id: T0607300700
Action Type: ENFORCEMENT
Date: 10/21/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300700
Action Type: RESPONSE
Date: 01/31/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0607300700
Action Type: ENFORCEMENT
Date: 02/25/1991
Action: Notice of Responsibility

Global Id: T0607300700
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607300700
Action Type: RESPONSE
Date: 11/22/2011
Action: Risk Assessment Report

Global Id: T0607300700
Action Type: REMEDIATION
Date: 01/01/1950
Action: Free Product Removal

Global Id: T0607300700
Action Type: RESPONSE
Date: 07/31/2012

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Action: Monitoring Report - Semi-Annually

Global Id: T0607300700
Action Type: RESPONSE
Date: 08/04/2009
Action: Correspondence

Global Id: T0607300700
Action Type: RESPONSE
Date: 07/31/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0607300700
Action Type: ENFORCEMENT
Date: 12/03/2013
Action: Letter - Notice

Global Id: T0607300700
Action Type: ENFORCEMENT
Date: 07/17/2008
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300700
Action Type: RESPONSE
Date: 07/31/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0607300700
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607300700
Action Type: RESPONSE
Date: 04/01/2011
Action: CAP/RAP - Feasibility Study Report - Regulator Responded

Global Id: T0607300700
Action Type: RESPONSE
Date: 04/30/2009
Action: Site Assessment Report - Regulator Responded

Global Id: T0607300700
Action Type: RESPONSE
Date: 02/07/2012
Action: Other Workplan - Regulator Responded

Global Id: T0607300700
Action Type: ENFORCEMENT
Date: 07/25/2014
Action: Technical Correspondence / Assistance / Other

Global Id: T0607300700
Action Type: RESPONSE
Date: 01/30/2011
Action: Monitoring Report - Semi-Annually

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Global Id:	T0607300700
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607300700
Action Type:	ENFORCEMENT
Date:	10/15/2008
Action:	Technical Correspondence / Assistance / Other
Global Id:	T0607300700
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped
Global Id:	T0607300700
Action Type:	RESPONSE
Date:	12/31/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0607300700
Action Type:	RESPONSE
Date:	10/22/2013
Action:	Soil Vapor Intrusion Investigation Report - Regulator Responded
Global Id:	T0607300700
Action Type:	RESPONSE
Date:	08/19/2013
Action:	Soil Vapor Intrusion Investigation Report - Regulator Responded
Global Id:	T0607300700
Action Type:	RESPONSE
Date:	01/31/2014
Action:	Monitoring Report - Semi-Annually - Regulator Responded
Global Id:	T0607300700
Action Type:	RESPONSE
Date:	12/18/2013
Action:	Other Workplan - Regulator Responded

Region:	STATE
Global Id:	T0607301247
Latitude:	32.698007997367
Longitude:	-117.148268222809
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/20/2008
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	CF
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT2495
LOC Case Number:	H00076-003
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607301247
Contact Type:	Local Agency Caseworker
Contact Name:	CAROL FENNER
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	carol.fenner@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607301247
Status:	Completed - Case Closed
Status Date:	06/20/2008
Global Id:	T0607301247
Status:	Open - Site Assessment
Status Date:	03/15/1993
Global Id:	T0607301247
Status:	Open - Case Begin Date
Status Date:	03/15/1993

Regulatory Activities:

Global Id:	T0607301247
Action Type:	ENFORCEMENT
Date:	06/26/1993
Action:	Notice of Responsibility
Global Id:	T0607301247
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607301247
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607301247
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607301247
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

LUST REG 9:

Region:	9
Status:	Remedial action (cleanup) Underway

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Case Number: 9UT1920
Local Case: H00076-002
Substance: Gasoline
Qty Leaked: Not reported
Abate Method: EDFP
Local Agency: San Diego
How Found: Other Means
How Stopped: Other Means
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 02/15/1991
Date Stopped: 02/15/1991
Confirm Date: 02/25/1991
Submit Workplan: 2/25/91
Prelim Assess: 02/25/1991
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: 2/25/91
Began Monitor: Not reported
Release Date: 02/15/1991
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: No
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 10/17/2008
Global Id: T0608114213
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H00076-001
Latitude: 32.6983330275535
Longitude: -117.148332595825
Case Type: Cleanup Program Site
Case Worker: CF
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Soil
Potential Contaminants of Concern: Waste Oil / Motor / Hydraulic / Lubricating
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

CHMIRS:

OES Incident Number:	02-5318	
OES notification:	10/01/2002	
OES Date:	Not reported	
OES Time:	Not reported	
Incident Date:	Not reported	
Date Completed:	**Not reported**	
Property Use:	Not reported	
Agency Id Number:	Not reported	
Agency Incident Number:	Not reported	
Time Notified:	Not reported	
Time Completed:	Not reported	
Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA/DOT/PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Comments:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	No	
Waterway:	Not reported	
Spill Site:	Not reported	
Cleanup By:	San Diego Co Coroner	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Not reported	
Other:	Not reported	
Date/Time:	Not reported	
Year:	2002	
Agency:	BNSF RR	
Incident Date:	10/1/200212:00:00 AM	
Admin Agency:	San Diego County Health Services Dept.	
Amount:	Not reported	
Contained:	Yes	
Site Type:	Rail Road	
E Date:	Not reported	
Substance:	N/A	
Quantity Released:	Not reported	
BBLS:	0	
Cups:	0	
CUFT:	0	
Gallons:	0.000000	
Grams:	0	

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	1
Description:	A truck driver was found deceased on rail Rd property. no Foul play Evident. Incident under investigation by San Diego PD.

SAN DIEGO CO. HMMD:

Facility Id:	100076
Business Type:	6HK52
EPA Id Number:	CAD981460124
APN:	538-840-04-00
Last HMMD Inspection:	06/21/2011
Permit Status:	OPEN
Permit Expiration:	11/30/2012
Facility Owner:	BNSF RAILWAY COMPANY
Facility Address:	740 E CARNEGIE DR
Facility City:	SAN BERNARDINO
Facility State:	CA
Facility Zip:	92408-
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 100076 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	100076
Tank Type:	UNKNOWN
Additional Id:	AT2154
Capacity Gallons:	1000
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1991-02-19 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100076 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	100076
Tank Type:	UNKNOWN

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Additional Id:	AT2154
Capacity Gallons:	1200
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1991-02-19 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100076 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	100076
Tank Type:	UNKNOWN
Additional Id:	AT2154
Capacity Gallons:	1200
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1991-02-19 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100076 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	100076
Tank Type:	UNKNOWN
Additional Id:	AT2883
Capacity Gallons:	6000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1993-03-15 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100076 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	100076
Tank Type:	UNKNOWN
Additional Id:	AT2883
Capacity Gallons:	6000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1993-03-15 00:00:00

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 100076 T006
Last Update:	2012-11-02 14:17:38
Permit Number:	100076
Tank Type:	UNKNOWN
Additional Id:	AT2883
Capacity Gallons:	3000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1993-03-15 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 100076 T007
Last Update:	2012-11-02 14:17:38
Permit Number:	100076
Tank Type:	UNKNOWN
Additional Id:	AT2992
Capacity Gallons:	6000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1993-01-09 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Active Permits:

Facility Id:	100076
Update Date:	11/02/2012
Case Number:	MIXTURE
Name:	FUSEES
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported
Facility Id:	100076
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN GAS
Other Information:	Not reported
Material Waste:	Material

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Hazardous Categories 1: REACTIVE
Hazardous Categories 2: PRESSURE RELEASE

Facility Id: 100076
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 100076
Update Date: 11/02/2012
Case Number: 74-98-6
Name: PROPANE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: PRESSURE RELEASE

Facility Id: 100076
Update Date: 11/02/2012
Case Number: MIXTURE
Name: WASTE 214 UNSPEC SOLVENT MIXTURE
Other Information: GROUNDWATER TREATMENT SYST RECOV FLUID/GAS, H20, OIL BENZENE
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 100076
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 222 OIL/WATER SEPARATION SLUDGE
Other Information: ONE OIL & WATER SEPARATOR
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 100076
Update Date: 11/02/2012
Case Number: MIXTURE
Name: WASTE 444 USED BATTERIES
Other Information: USED LEAD ACID BATTERIES
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: REACTIVE

Facility Id: 100076
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: MAINTENANCE SECTION
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Facility Id:	100076
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS
Other Information:	WASTE AEROSOLS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	100076
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 444 USED BATTERIES/ALKALINE
Other Information:	LANTERN BATTERIES
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	100076
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	PRESSURE RELEASE

Facility Id:	100076
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	PETROLEUM OILS
Other Information:	OILS (LUBE, JOURNAL, HYDRAULIC, MOTOR, TRANSMISSION)
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported

Violations Active Permits:

Facility Id:	100076
Update Date:	11/02/2012
Inspection Date:	10/25/2007
Violation Code:	6HV0149
Violation:	NO RECEIPTS (3 YRS) FOR OIL/FUEL FILTERS
Violation Citation:	Failed to keep disposal receipts (3 years) for drained used oil filters and/or drained fuel filters. 25250.22 and 66266.130(c)(5)
Activity:	ACTIVE

Facility Id:	100076
Update Date:	11/02/2012
Inspection Date:	06/21/2011
Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	ACTIVE

Facility Id:	100076
Update Date:	11/02/2012

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

Inspection Date: 01/12/2004
Violation Code: 6HV0401
Violation: TRAINING RECORDS UNAVAILABLE
Violation Citation: Personnel training records are not maintained to document compliance with requirements for current and former employees. CCR 66265.16(d)&(e)
Activity: ACTIVE

Facility Id: 100076
Update Date: 11/02/2012
Inspection Date: 06/21/2011
Violation Code: 6HV0215
Violation: OIL FILTERS IMPROPERLY MANAGED
Violation Citation: Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity: ACTIVE

Facility Id: 100076
Update Date: 11/02/2012
Inspection Date: 10/25/2007
Violation Code: 6HV0147
Violation: UW RECORDS NOT KEPT ONSITE FOR 3 YEARS
Violation Citation: Failed to keep universal waste record for 3 years for offsite shipment. SQH:66273.19(b)&(c)(2); LQH:66273.39(b)&(c)(2)
Activity: ACTIVE

Facility Id: 100076
Update Date: 11/02/2012
Inspection Date: 12/27/2005
Violation Code: 6HV0401
Violation: TRAINING RECORDS UNAVAILABLE
Violation Citation: Personnel training records are not maintained to document compliance with requirements for current and former employees. CCR 66265.16(d)&(e)
Activity: ACTIVE

Facility Id: 100076
Update Date: 11/02/2012
Inspection Date: 10/25/2007
Violation Code: 6HV0135
Violation: MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation: Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity: ACTIVE

CA WDS:
Facility ID: San Diego 371012999
Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
Facility Status: Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.

APPENDIX J
PHASE I ENVI RONMENTAL SITE ASSESSMENT
PART 2

BNSF SAN DIEGO RAILYARD (Continued) **S101301969**

NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	9
Facility Telephone:	Not reported
Facility Contact:	Not reported
Agency Name:	BURLINGTON NORTHERN & SANTA FE
Agency Address:	740 E. CARNEGIE DR.
Agency City,St,Zip:	SAN BERNARDINO 92408
Agency Contact:	MICK HARDEN
Agency Telephone:	9043864081
Agency Type:	Private
SIC Code:	0
SIC Code 2:	Not reported
Primary Waste Type:	Not reported
Primary Waste:	Not reported
Waste Type2:	Not reported
Waste2:	Not reported
Primary Waste Type:	Not reported
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	Not reported
POTW:	Not reported
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

P99 **FORDS & FOREIGN AUTO PARTS** **CA SLIC** **S104748615**
ENE **2335 NEWTON AV** **CA San Diego Co. HMMD** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SAN DIEGO CO. SAM**
0.330 mi.
1745 ft. **Site 3 of 3 in cluster P**

Relative:
Higher

Actual:
50 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	03/19/1999
Global Id:	T0608185080
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H16521-001
Latitude:	32.694467
Longitude:	-117.138651
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported

FORDS & FOREIGN AUTO PARTS (Continued) **S104748615**

Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	116521
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-741-07-00
Last HMMD Inspection:	10/01/1987
Permit Status:	INAC
Permit Expiration:	10/01/1987
Facility Owner:	JOEL MCNEIL
Facility Address:	2335 NEWTON AV
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-3648
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

SAN DIEGO CO. SAM:

Case Number:	H16521-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Complaint
Facility Status:	Closed Case
Date:	3/19/1999
Date Began:	7/14/1988

---

100 East 1/4-1/2 0.332 mi. 1754 ft.

DORMANS TIRE CO
2385 MAIN ST
SAN DIEGO, CA 92113

CA SLIC **S104748446**
CA SWEEPS UST **N/A**
CA San Diego Co. HMMD
CA SAN DIEGO CO. SAM

Relative: Higher

Actual: 37 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/26/1988
Global Id:	T0608177867
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H15421-001
Latitude:	32.693465
Longitude:	-117.139156
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Gasoline

DORMANS TIRE CO (Continued) **S104748446**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:

Status:	Not reported
Comp Number:	15421
Number:	Not reported
Board Of Equalization:	44-022919
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-015421-000001
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	1

SAN DIEGO CO. HMMD:

Facility Id:	115421
Business Type:	6HK03
EPA Id Number:	Not reported
APN:	538-790-12-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	06/30/2002
Facility Owner:	DORMANS TIRE CO
Facility Address:	820 HIGHLAND AVE
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92073-
UST Owner:	NORMAN TIRE CO
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 115421 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	115421
Tank Type:	SINGLE WALL
Additional Id:	AT0046-1
Capacity Gallons:	500
UST Contents:	Not reported
Other Content Info:	WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1987-01-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported

DORMANS TIRE CO (Continued) **S104748446**

Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SAN DIEGO CO. SAM:
Case Number: H15421-001
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 2/26/1988
Date Began: 1/5/1988

R101 **MERCADO COMMERCIAL CENTER** **CA SLIC** **S104755426**
North **1920 MAIN ST** **CA San Diego Co. HMMD** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SAN DIEGO CO. SAM**
0.340 mi.
1795 ft. ***Site 1 of 3 in cluster R***

Relative:
Higher

Actual:
37 ft.

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 03/12/2007
Global Id: T0608182788
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H36157-001
Latitude: 32.699298
Longitude: -117.145532
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:
Facility Id: 136157
Business Type: Not reported
EPA Id Number: Not reported
APN: 538-671-14-00
Last HMMD Inspection: Not reported
Permit Status: INAC
Permit Expiration: Not reported
Facility Owner: CITY OF SAN DIEGO REDEVELOP AG
Facility Address: 1200 3RD AV CC REDEV AGCY 1620
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92101-
UST Owner: Not reported
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported

MERCADO COMMERCIAL CENTER (Continued) **S104755426**

Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

SAN DIEGO CO. SAM:
Case Number: H36157-001
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 3/12/2007
Date Began: 3/28/1996

S102 **CALTRANS DISTRICT 11-CORONADO BRIDGE** **FINDS** **1007738682**
North **1995 NEWTON AVE** **CA SWF/LF** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA NPDES**
0.343 mi.
1812 ft. **Site 1 of 2 in cluster S**

Relative:
Higher

Actual:
45 ft.

FINDS:

Registry ID: 110018987621

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

SWF/LF (SWIS):
Region: STATE
Facility ID: 37-AB-0018
Lat/Long: 32.6987799 / -117.14427
Owner Name: California Department of Transportation
Owner Telephone: 6196883329
Owner Address: Not reported
Owner Address2: 4050 Taylor St.
Owner City,St,Zip: San Diego, CA 92110
Operational Status: Active
Operator: California Department of Transportation
Operator Phone: 8584674000
Operator Address: Region 2 Kearny Mesa- Terry Kloepfer
Operator Address2: 7181 Opportunity Rd.
Operator City,St,Zip: San Diego, CA 92111
Permit Date: 04/04/2011
Permit Status: Notification
Permitted Acreage: 0.3
Activity: Limited Volume Transfer Operation
Regulation Status: Notification
Landuse Name: Residential
GIS Source: Map
Category: Transfer/Processing
Unit Number: 01
Inspection Frequency: Quarterly
Accepted Waste: Inert,Mixed municipal
Closure Date: Not reported

CALTRANS DISTRICT 11-CORONADO BRIDGE (Continued) **1007738682**

Closure Type: Not reported
Disposal Acreage: Not reported
SWIS Num: 37-AB-0018
Waste Discharge Requirement Num: Not reported
Program Type: Not reported
Permitted Throughput with Units: 15
Actual Throughput with Units: Tons/day
Permitted Capacity with Units: 31
Remaining Capacity: Not reported
Remaining Capacity with Units: Tons/year

NPDES:

Npdes Number:	CAS000003
Facility Status:	Active
Agency Id:	7549
Region:	9
Regulatory Measure Id:	214072
Order No:	99-06-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	215788
WDID:	9 000000999
Program Type:	MNSTW1
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/15/1999
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Ca Dept of Transportation District 11 R9
Discharge Address:	2829 Jun Street
Discharge City:	San Diego
Discharge State:	CA
Discharge Zip:	92186

T103 **CITY OF S.D. PARKING LOT** **CA LUST S101302105**
NE **2183 NATIONAL AVE** **CA SWEEPS UST N/A**
1/4-1/2 **SAN DIEGO, CA 92191**
0.343 mi.
1812 ft. **Site 1 of 2 in cluster T**

Relative:
Higher

Actual:
61 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT1408
Local Case:	H00629-001
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Not reported
Cause:	Not reported
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	04/18/1989
Date Stopped:	04/18/1989
Confirm Date:	04/21/1989

CITY OF S.D. PARKING LOT (Continued) **S101302105**

Submit Workplan: Not reported
Prelim Assess: 06/07/1989
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 06/07/1989
Enforce Date: Not reported
Closed Date: 12/31/96
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 35.5
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 629
Number: 9
Board Of Equalization: 44-021572
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 629
Number: Not reported
Board Of Equalization: 44-021572
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-000629-000001
Tank Status: Not reported
Capacity: 750
Active Date: Not reported
Tank Use: PETROLEUM
STG: PRODUCT
Content: Not reported
Number Of Tanks: 4

Status: Not reported

CITY OF S.D. PARKING LOT (Continued) **S101302105**

Comp Number:	629
Number:	Not reported
Board Of Equalization:	44-021572
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000629-000002
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	629
Number:	Not reported
Board Of Equalization:	44-021572
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000629-000003
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	629
Number:	Not reported
Board Of Equalization:	44-021572
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000629-000004
Tank Status:	Not reported
Capacity:	500
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

T104 **CALIFORNIA METAL FORMING** **CA HIST CORTESE** **S104745058**
NE **2183 NATIONAL AV** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA San Diego Co. HMMD**
0.343 mi. **CA SAN DIEGO CO. SAM**
1812 ft. **Site 2 of 2 in cluster T**

Relative:
Higher

Actual:
61 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT1408

LUST:

Region:	STATE
Global Id:	T0607300247
Latitude:	32.6973313
Longitude:	-117.1402805
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/31/1996
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT1408
LOC Case Number:	H00629-001
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607300247
Status:	Open - Case Begin Date
Status Date:	04/21/1989
Global Id:	T0607300247
Status:	Completed - Case Closed
Status Date:	12/31/1996

Regulatory Activities:

Global Id:	T0607300247
Action Type:	ENFORCEMENT
Date:	05/03/1989
Action:	Notice of Responsibility
Global Id:	T0607300247
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607300247
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607300247
Action Type:	Other

CALIFORNIA METAL FORMING (Continued) **S104745058**

Date: 01/01/1950
Action: Leak Began

Global Id: T0607300247
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0607300247
Action Type: ENFORCEMENT
Date: 12/18/1996
Action: Closure/No Further Action Letter - #H00629-001

SAN DIEGO CO. HMMD:
Facility Id: 100629
Business Type: Not reported
EPA Id Number: Not reported
APN: DEH-100629
Last HMMD Inspection: 10/21/1987
Permit Status: INAC
Permit Expiration: Not reported
Facility Owner: MISAEL MERCADO
Facility Address: 2183 NATIONAL AV
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92113-2208
UST Owner: Not reported
Handle Regulated Hazmat: Y
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:
UST Name: UNDERGROUND TANK 100629 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 100629
Tank Type: SINGLE WALL
Additional Id: 00001
Capacity Gallons: 750
UST Contents: Not reported
Other Content Info: WASTE OIL
Reg Status: REMOVED
Remove Close Date: 1989-04-18 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 100629 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 100629
Tank Type: SINGLE WALL

CALIFORNIA METAL FORMING (Continued) **S104745058**

Additional Id:	00002
Capacity Gallons:	500
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-04-18 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 100629 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	100629
Tank Type:	SINGLE WALL
Additional Id:	00003
Capacity Gallons:	500
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-04-18 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 100629 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	100629
Tank Type:	SINGLE WALL
Additional Id:	000004
Capacity Gallons:	500
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-04-18 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SAN DIEGO CO. SAM:

Case Number:	H00629-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	12/31/1996
Date Began:	4/21/1989

R105
NNW
1/4-1/2
0.355 mi.
1875 ft.

FORMER NATIONAL PUMP AND INJECTOR
1901 MAIN ST
SAN DIEGO, CA 92113

Site 2 of 3 in cluster R

CA SAN DIEGO CO. SAM **S108407049**
N/A

Relative:
Higher

Actual:
36 ft.

SAN DIEGO CO. SAM:

Case Number:	H11046-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	1/14/2002
Date Began:	8/17/2001

R106
NNW
1/4-1/2
0.355 mi.
1875 ft.

CESAR CHAVEZ CAMPUS
1901 MAIN STREET
SAN DIEGO, CA 92113

Site 3 of 3 in cluster R

CA NPDES **U001572967**
CA SLIC **N/A**
CA HIST UST
CA SWEEPS UST
CA San Diego Co. HMMD
CA ENVIROSTOR
CA SAN DIEGO CO. SAM

Relative:
Higher

Actual:
36 ft.

NPDES:

Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	9
Regulatory Measure Id:	404834
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37C367140
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	07/18/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	San Diego Community College District
Discharge Address:	3375 Camino del Rio S
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92108

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**
Status Date:	10/21/2009
Global Id:	T10000001604
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H11046-002
Latitude:	32.6983691419456
Longitude:	-117.146337032318
Case Type:	Cleanup Program Site
Case Worker:	CF
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported

CESAR CHAVEZ CAMPUS (Continued) **U001572967**

Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 01/14/2002
Global Id: T0608189862
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H11046-001
Latitude: 32.698673
Longitude: -117.146665
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

HIST UST:
Region: STATE
Facility ID: 00000010743
Facility Type: Other
Other Type: METAL ROOFING
Total Tanks: 0001
Contact Name: J.W. GASKINS
Telephone: 6192953131
Owner Name: A.E.P. CORPORATION
Owner Address: 1901 MAIN STREET
Owner City,St,Zip: SAN DIEGO, CA 92113

Tank Num: 001
Container Num: UG-100
Year Installed: 1970
Tank Capacity: 00000550
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Visual

SWEEPS UST:
Status: Active
Comp Number: 1089
Number: 9
Board Of Equalization: 44-021596
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported

CESAR CHAVEZ CAMPUS (Continued) **U001572967**

Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	1089
Number:	Not reported
Board Of Equalization:	44-021596
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-001089-000001
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	1

SAN DIEGO CO. HMMD:

Facility Id:	101089
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-670-36-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	A.E.P. CORPORATION
Facility Address:	1901 MAI MAIN ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2129
UST Owner:	A.E.P. CORPORATION
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 101089 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	101089
Tank Type:	UNKNOWN
Additional Id:	UG-100
Capacity Gallons:	550
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1970-01-01 00:00:00

CESAR CHAVEZ CAMPUS (Continued) **U001572967**

Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 24
UST Monitor Method: VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

ENVIROSTOR:
Facility ID: 37990010
Status: Refer: 1248 Local Agency
Status Date: 09/12/2001
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 80
Senate: 40
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 32.69841
Longitude: -117.1463
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 110002678996
Alias Type: EPA (FRS #)
Alias Name: 37990010
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SAN DIEGO CO. SAM:
Case Number: H11046-002

CESAR CHAVEZ CAMPUS (Continued) **U001572967**

Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Preliminary Assessment
Date:	8/6/2009
Date Began:	Not reported

U107 **MEDLAND CONTROLS INC** **CA SLIC** **S106064557**
ENE **2393 NEWTON AV** **CA San Diego Co. HMMD** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SAN DIEGO CO. SAM**
0.361 mi.
1906 ft. **Site 1 of 2 in cluster U**

Relative:
Higher

Actual:
48 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/06/1997
Global Id:	T0608131964
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H35400-001
Latitude:	32.694467
Longitude:	-117.138651
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	135400
Business Type:	6HK70
EPA Id Number:	CAL000163147
APN:	538-741-07-00
Last HMMD Inspection:	03/20/2002
Permit Status:	INAC
Permit Expiration:	10/31/2002
Facility Owner:	MEDLAND CONTROLS INC.
Facility Address:	2393 NEWTON AV #B
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-
UST Owner:	Not reported
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

SAN DIEGO CO. SAM:

Case Number:	H35400-001
Agency:	DEH Site Assessment & Mitigation

MEDLAND CONTROLS INC (Continued) **S106064557**

Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	1/6/1997
Date Began:	Not reported

U108 **RECON RECYCLING CENTER** **CA SWRCY** **S113894329**
ENE **2393 NEWTON AVE STE A** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.361 mi.
1906 ft. **Site 2 of 2 in cluster U**

Relative:
Higher

Actual:
48 ft.

SWRCY:

Reg Id:	157818
Cert Id:	RC157818.002
Mailing Address:	501 W Broadway A Ste 235
Mailing City:	San Diego
Mailing State:	CA
Mailing Zip Code:	92101
Website:	Not reported
Phone Number:	(619) 955-8158
Grand Father:	N
Rural:	N
Operation Begin Date:	06/21/2013
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	9:00 am - 3:00 pm
Tuesday Hours Of Operation:	9:00 am - 3:00 pm
Wednesday Hours Of Operation:	9:00 am - 3:00 pm
Thursday Hours Of Operation:	9:00 am - 3:00 pm
Friday Hours Of Operation:	9:00 am - 3:00 pm
Saturday Hours Of Operation:	9:00 am - 3:00 pm
Sunday Hours Of Operation:	CLOSED
Cert Status:	Operational
Organization ID:	157818
Organization Name:	Recon Recycling LLC
Agency Reg ID:	N/A
Operation End Date:	Not reported

S109 **MERCADO DEL BARRIO** **CA SLIC** **S110656443**
North **CESAR CHAVEZ PARKWAY AND NATIONAL AVENUE** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.365 mi.
1925 ft. **Site 2 of 2 in cluster S**

Relative:
Higher

Actual:
42 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/26/2012
Global Id:	T10000002609
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H39637-002
Latitude:	32.6993351965106

MERCADO DEL BARRIO (Continued) **S110656443**

Longitude:	-117.145264148712
Case Type:	Cleanup Program Site
Case Worker:	KK
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Soil
Potential Contaminants of Concern:	Lead, Other Metal, Diesel, Waste Oil / Motor / Hydraulic / Lubricating
Site History:	The site property consists of approximately 6.43 acres and encompasses two full blocks bound by National Avenue, Main Street, Cesar Chavez Parkway and the Coronado Bridge Right-of-Way in the City of San Diego. The site was originally acquired by Mercado Alliance LLC and slated for redevelopment with regulatory oversight by the County of San Diego, Department of Environmental Health (DEH), Voluntary Assistance Program (VAP) under case number H39637-001. When remediation and redevelopment plans fell through, the Redevelopment Agency of the City of San Diego took control of the property and subsequently transferred it to Shea Properties for remediation and redevelopment. The proposed site use is slab on grade commercial with residential units above some of the commercial buildings. Remediation activities related to hydrocarbon- and metals-impacted soil were overseen in the VAP under case number H39637-002. This closure addresses both VAP cases, H39637-001 (assessment only) and -002 (assessment and remediation). Due to the size and location of the site, there have been numerous historical land uses, including a wrecking yard, lumber yard, vehicle repair and painting facilities, oil storage and distribution, recycling center, junk yard, etc. Most recently, prior to development, the site was a vacant lot. During the course of remediation activities, three underground storage tanks (USTs), likely associated with historical land uses, were discovered and removed under permit and oversight of the County of San Diego, Department of Environmental Health. The majority of observed soil impacts were related to heavy metals found to be nearly ubiquitous across the site in the upper four feet of soil, likely associated with undocumented fill or other historical land uses. In addition, a number of historical features were identified before and during excavation activities, including in-ground hydraulic lifts, cisterns, debris pits, USTs, etc, which contained undocumented fill (with heavy metals), hydrocarbons, and other volatile organic compounds (VOCs). The majority of these features were generally observed in the upper 12 feet with a few exceptions extending up to 25 feet below grade. Assessment and remediation of these features were conducted concurrently. Concentrations of total petroleum hydrocarbons as gasoline, diesel, and oil in soil were detected up to 53, 690, and 2,700 milligrams per kilogram (mg/kg), respectively. VOCs were largely absent from the site or observed at relatively low concentrations with a few notable exceptions including trichloroethylene (TCE) and 1,2,4-trimethylbenzene at 4.1 and 3.2 mg/kg, respectively. The majority of Title 22 metals were observed above mitigation criteria in one or more locations, including lead, the primary metal constituent of concern, which was observed in soil up to 8,340 mg/kg. Depth to groundwater at the site was observed in a few open boreholes between 32.5 and 39 feet below grade. Groundwater analytical data is limited to a few groundwater samples collected during assessment activities associated with case H39637-001. Only a few chemicals were detected in groundwater above laboratory reporting limits, most notably tetrachloroethene (PCE) and TCE, detected up to

MERCADO DEL BARRIO (Continued) **S110656443**

59 and 600 micrograms per liter, respectively, as well as their associated breakdown products. Cleanup goals for metals-impacted soil located within the construction envelop were based on San Diego Regional Water Quality Control Board Resolution R9-2007-0104, Tier 1 Soil Reuse guidelines utilizing a 90% upper confidence level (UCL). Cleanup goals for hydrocarbon- and VOC-impacted soil were determined to be concentrations below laboratory reporting limits. The majority of soil which exceeded established cleanup goals was stockpiled and reused in the northern portion of the site. Approximately 22,439 cubic yards of impacted soil was consolidated and capped with at least three feel of clean soil. Impacted soil with met

Click here to access the California GeoTracker records for this facility:

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110 ENE 1/4-1/2 0.371 mi. 1960 ft.

LUIS COMANJA AUTO SERVICE
2295 NATIONAL AV
SAN DIEGO, CA 92113

CA LUST S104748496
CA San Diego Co. HMMD N/A

Relative: Higher

Actual: 61 ft.

LUST:

Region:	STATE
Global Id:	T10000002993
Latitude:	32.695929
Longitude:	-117.138805
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/21/2012
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	CB
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
LOC Case Number:	H15784-001
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water), Soil
Potential Contaminants of Concern:	Gasoline
Site History:	A subsurface investigation was conducted at the site for a real estate transaction, since the property was reported to be occupied by a gasoline service station from the early 1920s to the early 1960s. The investigation included the drilling of 8 shallow borings on March 29, 2010, and five deeper borings on September 7, 2010. The laboratory analytical results indicated that soil had been impacted by total petroleum hydrocarbons (TPH) in both the gasoline and diesel ranges. When the results of the investigation were submitted to the Department of Environmental Health (DEH), an unauthorized release, H15784-001 was opened. Additional site assessment activities were conducted to define the extent of soil contamination and evaluate groundwater conditions at the site. Two additional soil borings were drilled in February 2012, and one groundwater monitoring well was installed. The site vicinity is underlain by the Pleistocene Bay Point Formation, characterized by both marine and non-marine near shore deposits. Based on the investigations, the subsurface soil encountered at the site consisted of silty-sand from the ground surface to approximately 25 feet below ground surface (bgs), underlain by silts and/or clayey-silts to approximately 60 feet bgs. Lenses of poorly graded sand between 10 and 50 feet bgs were encountered at some of the boring locations. The hydrocarbon impacted soil is located between 12 feet bgs and 30 feet bgs at three separate

LUIS COMANJA AUTO SERVICE (Continued) **S104748496**

locations on the north portion of the site near National Avenue. The location of the former tanks and dispensers is unknown. The consultant has estimated there is total of approximately 66 cubic yards of impacted soil greater than 100 mg/kg TPH remaining at the site. The depth of groundwater at the time of the first sampling event on February 27, 2012 was at 48.15 feet bgs. Groundwater at this site is located within a groundwater basin that has been designated as.exempt or having no potential or existing groundwater use. The groundwater flow direction could not be measured, since only one groundwater monitoring was installed. Based on a review of hydrogeologic data from neighboring sites, the groundwater is estimated to flow to the southwest towards San Diego Bay. Results of the groundwater laboratory analytical results showed low concentrations of TPH gasoline, benzene and xylenes. A second groundwater sampling event was conducted on July 11, 2012, and all of the sample analytical results were nondetect. The consultant has recommended no further action based on the low concentrations of contaminants of concern remaining on site. The groundwater investigation has shown there are little or no impacts to groundwater. The building structure existing on site is not located above the soil contamination. This site meets the criteria of a low risk groundwater site. DEH concurs with the consultants recommendation.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T10000002993
Contact Type:	Local Agency Caseworker
Contact Name:	CRAIG BURNETT
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	SAN DIEGO
Email:	craig.burnett@sdcounty.ca.gov
Phone Number:	8585056978

Status History:

Global Id:	T10000002993
Status:	Open - Site Assessment
Status Date:	04/20/2011
Global Id:	T10000002993
Status:	Open - Case Begin Date
Status Date:	04/20/2011
Global Id:	T10000002993
Status:	Completed - Case Closed
Status Date:	12/21/2012

Regulatory Activities:

Global Id:	T10000002993
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T10000002993
Action Type:	ENFORCEMENT

LUIS COMANJA AUTO SERVICE (Continued) **S104748496**

Date: 07/28/2011
Action: Notice of Responsibility

Global Id: T10000002993
Action Type: ENFORCEMENT
Date: 01/13/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T10000002993
Action Type: ENFORCEMENT
Date: 09/19/2011
Action: Notice of Responsibility

Global Id: T10000002993
Action Type: ENFORCEMENT
Date: 12/21/2012
Action: Closure/No Further Action Letter

Global Id: T10000002993
Action Type: ENFORCEMENT
Date: 06/21/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T10000002993
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T10000002993
Action Type: RESPONSE
Date: 12/19/2011
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000002993
Action Type: RESPONSE
Date: 04/25/2012
Action: Soil and Water Investigation Report - Regulator Responded

Global Id: T10000002993
Action Type: RESPONSE
Date: 07/30/2012
Action: Monitoring Report - Quarterly

SAN DIEGO CO. HMMD:
Facility Id: 115784
Business Type: 6HK26
EPA Id Number: CAL000018388
APN: 538-690-21-00
Last HMMD Inspection: 11/05/1993
Permit Status: INAC
Permit Expiration: 11/05/1993
Facility Owner: LUIS MALACARA
Facility Address: 2295 NATIONAL AV
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92113-3614

LUIS COMANJA AUTO SERVICE (Continued) **S104748496**

UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	*Not reported*

V111 **JOHNSON TRUCK REPAIR & PAINT** **CA SLIC** **S104745875**
North **1931 NEWTON AV** **CA San Diego Co. HMMD** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SAN DIEGO CO. SAM**
0.381 mi.
2013 ft. **Site 1 of 3 in cluster V**

Relative:
Higher

Actual:
44 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	06/21/2012
Global Id:	T0608164552
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H04173-001
Latitude:	32.698833
Longitude:	-117.144336
Case Type:	Cleanup Program Site
Case Worker:	VAP
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	*Not reported*
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Please refer to "Site Maps/Documents" tab for Closure Information

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	104173
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-671-02-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	JOHNSON TRUCK REPAIR
Facility Address:	3611 PRINCE ST
Facility City:	ESCONDIDO
Facility State:	CA
Facility Zip:	92025-
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

SAN DIEGO CO. SAM:

Case Number:	H04173-001

JOHNSON TRUCK REPAIR & PAINT (Continued) **S104745875**

Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Complaint
Facility Status:	Preliminary Assessment
Date:	1/13/1994
Date Began:	12/14/1987

W112 **SAN DIEGO HOUSING COMMISSION** **CA San Diego Co. HMMD** **S106063110**
East **2650 BOSTON AV** **CA SAN DIEGO CO. SAM** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.427 mi.
2256 ft. **Site 1 of 2 in cluster W**

Relative:
Higher

Actual:
44 ft.

SAN DIEGO CO. HMMD:

Facility Id:	129927
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	538-752-21-00
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	SAN DIEGO HOUSING COMMISSION
Facility Address:	1625 NEWTON AV
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-1012
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

SAN DIEGO CO. SAM:

Case Number:	H29927-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Remedial Investigation
Date:	7/10/2009
Date Began:	Not reported

W113 **SAN DIEGO HOUSING COMMISSION** **CA SLIC** **S110041759**
East **2650-52 BOSTON AV** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.427 mi.
2256 ft. **Site 2 of 2 in cluster W**

Relative:
Higher

Actual:
44 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/07/2010
Global Id:	T10000001536
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H29927-002

SAN DIEGO HOUSING COMMISSION (Continued) **S110041759**

Latitude:	32.6939155
Longitude:	-117.1167645
Case Type:	Cleanup Program Site
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Not reported
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Please see Site Documents.

Click here to access the California GeoTracker records for this facility:

V114 **CROSBY ST CORRIDOR** **CA SLIC** **S106916598**
North **NONE CROSBY ST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.429 mi.
2264 ft. **Site 2 of 3 in cluster V**

Relative: **Higher**

Actual: **49 ft.**

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	08/15/2012
Global Id:	T0608151971
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H34128-001
Latitude:	32.7002591
Longitude:	-117.1454371
Case Type:	Cleanup Program Site
Case Worker:	SW
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Please refer to "Site Maps/Documents" tab for Closure Memo

Click here to access the California GeoTracker records for this facility:

V115 **SEE CASE H39637-002 - MERCADO DEL BARRIO** **CA SLIC** **S106874815**
North **NONE NATIONAL AVENUE** **N/A**
1/4-1/2 **SAN DIEGO, CA 92101**
0.429 mi.
2264 ft. **Site 3 of 3 in cluster V**

Relative: **Higher**

Actual: **49 ft.**

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	01/26/2012
Global Id:	T0607399805
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H39637-001
Latitude:	32.7002591
Longitude:	-117.1454371
Case Type:	Cleanup Program Site
Case Worker:	KK

SEE CASE H39637-002 - MERCADO DEL BARRIO (Continued) **S106874815**

Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Refer to Case H39637-002 for Closure Letter/Summary.

Click here to access the California GeoTracker records for this facility:

X116 **SAN DIEGO EXPRESS** **RCRA-SQG 1000110780**
ENE **2635 LOGON ST** **FINDS CAD982497216**
1/4-1/2 **SAN DIEGO, CA 92113** **CA HIST CORTESE**
0.438 mi. **CA LUST**
2315 ft. **Site 1 of 2 in cluster X** **CA San Diego Co. HMMD**
CA SAN DIEGO CO. SAM

Relative:
Higher

Actual:
61 ft.

RCRA-SQG:
Date form received by agency: 05/14/1990
Facility name: SAN DIEGO EXPRESS
Facility address: 2635 LOGON ST
SAN DIEGO, CA 92113
EPA ID: CAD982497216
Mailing address: P O BOX 13159
SAN DIEGO, CA 92113
Contact: ENVIRONMENTAL MANAGER
Contact address: 2635 LOGON ST
SAN DIEGO, CA 92113
Contact country: US
Contact telephone: (619) 231-9609
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: SAN DIEGO EXPRESS INC
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported

SAN DIEGO EXPRESS (Continued) **1000110780**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002831945

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT941

LUST:
Region: STATE
Global Id: T0607303177
Latitude: 32.696816
Longitude: -117.137454
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/23/1990
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT941
LOC Case Number: H05002-001
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline

SAN DIEGO EXPRESS (Continued) **1000110780**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607303177
Status: Completed - Case Closed
Status Date: 01/23/1990

Global Id: T0607303177
Status: Open - Case Begin Date
Status Date: 02/24/1988

Regulatory Activities:
Global Id: T0607303177
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607303177
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607303177
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0607303177
Action Type: Other
Date: 01/01/1950
Action: Leak Began

SAN DIEGO CO. HMMD:
Facility Id: 105002
Business Type: 6HK26
EPA Id Number: CAD982497216
APN: DEH-105002
Last HMMD Inspection: 02/03/1999
Permit Status: INAC
Permit Expiration: 11/30/1999
Facility Owner: SAN DIEGO EXPRESS CHARTERS INC
Facility Address: P O BOX 13159
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92170-3159
UST Owner: KARVON ELECTRIC
Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Y
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:

SAN DIEGO EXPRESS (Continued) **1000110780**

UST Name:	UNDERGROUND TANK 105002 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	105002
Tank Type:	SINGLE WALL
Additional Id:	1
Capacity Gallons:	1000
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1988-02-24 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

SAN DIEGO CO. SAM:

Case Number:	H05002-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	1/23/1990
Date Began:	2/24/1988

X117 **SAN DIEGO EXPRESS INC** **CA LUST S102432117**
ENE **2635 LOGAN AVE** **CA SWEEPS UST N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.438 mi.
2315 ft. **Site 2 of 2 in cluster X**

Relative:
Higher

Actual:
61 ft.

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT941
Local Case:	H05002-001
Substance:	Gasoline
Qty Leaked:	0
Abate Method:	Vent Soil - bore holes in soil to allow volatilization of contaminants
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Tank
Cause:	Corrosion
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	02/26/1988
Date Stopped:	02/26/1988
Confirm Date:	02/24/1988
Submit Workplan:	Not reported
Prelim Assess:	03/22/1988
Desc Pollution:	Not reported
Remed Plan:	07/26/1988
Remed Action:	Not reported
Began Monitor:	Not reported

SAN DIEGO EXPRESS INC (Continued) **S102432117**

Release Date: 03/22/1988
Enforce Date: Not reported
Closed Date: 12/21/89
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: Not reported
GW Depth: Not reported
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 5002
Number: 9
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5002
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005002-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 1

Y118 **PORT OF SAN DIEGO** **CA HIST CORTESE** **S101302186**
NW **1875 WATER ST** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92101** **CA SLIC**
0.453 mi. **CA San Diego Co. HMMD**
2390 ft. ***Site 1 of 2 in cluster Y*** **CA SAN DIEGO CO. SAM**

Relative:
Lower

Actual:
12 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT921

LUST:

Region:	STATE
Global Id:	T0607303164
Latitude:	32.6966199
Longitude:	-117.1506817
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	12/05/1996
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT921
LOC Case Number:	H24706-001
File Location:	Local Agency
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607303164
Status:	Completed - Case Closed
Status Date:	12/05/1996
Global Id:	T0607303164
Status:	Open - Case Begin Date
Status Date:	01/01/1974

Regulatory Activities:

Global Id:	T0607303164
Action Type:	ENFORCEMENT
Date:	03/01/1988
Action:	Notice of Responsibility
Global Id:	T0607303164
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607303164
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607303164
Action Type:	Other

PORT OF SAN DIEGO (Continued) **S101302186**

Date: 01/01/1950
Action: Leak Stopped

Global Id: T0607303164
Action Type: Other
Date: 01/01/1950
Action: Leak Began

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT921
Local Case: H24706-001
Substance: Diesel
Qty Leaked: 0
Abate Method: No Action Required - incident is minor, requiring no remedial action
Local Agency: San Diego
How Found: Other Means
How Stopped: Not reported
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 02/23/1988
Date Stopped: 01/01/1974
Confirm Date: 11/02/1987
Submit Workplan: Not reported
Prelim Assess: 03/10/1988
Desc Pollution: Not reported
Remed Plan: 05/26/1992
Remed Action: 11/5/92
Began Monitor: Not reported
Release Date: 03/01/1988
Enforce Date: Not reported
Closed Date: 12/5/96
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 7.0'
Beneficial Use: NBNB/E
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 12/04/1996
Global Id: T0608133034
Lead Agency: SAN DIEGO RWQCB (REGION 9)
Lead Agency Case Number: H24706-002
Latitude: 32.697192

PORT OF SAN DIEGO (Continued) **S101302186**

Longitude:	-117.151776
Case Type:	Cleanup Program Site
Case Worker:	UNA
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	124706
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	DEH-124706
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	SAN DIEGO UNIFIED PORT DIST
Facility Address:	P O BOX 488
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92112-0488
UST Owner:	SAN DIEGO UNIFIED PORT DIST
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 124706 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	124706
Tank Type:	UNKNOWN
Additional Id:	AT2659
Capacity Gallons:	5000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1992-08-24 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 124706 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	124706
Tank Type:	UNKNOWN
Additional Id:	AT2659
Capacity Gallons:	7500

PORT OF SAN DIEGO (Continued) **S101302186**

UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1992-08-24 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 124706 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	124706
Tank Type:	UNKNOWN
Additional Id:	AT2659
Capacity Gallons:	7500
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1992-08-24 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 124706 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	124706
Tank Type:	UNKNOWN
Additional Id:	AT2659
Capacity Gallons:	2000
UST Contents:	Not reported
Other Content Info:	GASOLINE & WASTE OIL
Reg Status:	REMOVED
Remove Close Date:	1992-08-24 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SAN DIEGO CO. SAM:

Case Number:	H24706-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Drinking Water Aquifer Impacted
Facility Status:	Closed Case
Date:	12/5/1996
Date Began:	1/1/1974
Case Number:	H24706-002
Agency:	DEH Site Assessment & Mitigation

PORT OF SAN DIEGO (Continued) **S101302186**

Funding:	**Non Billable**
Facility Type:	Complaint
Facility Status:	Preliminary Assessment
Date:	12/4/1996
Date Began:	12/4/1996

Z119 **ALLEN, WILLIS M.** **CERC-NFRAP** **1003879722**
North **1902 NATIONAL AVE.** **CAD983648890**
1/4-1/2 **SAN DIEGO, CA 92113**
0.454 mi.
2398 ft. **Site 1 of 6 in cluster Z**

Relative: **Higher**

Actual: **53 ft.**

CERC-NFRAP:

Site ID:	0904583
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13287409.00000
Person ID:	13003854.00000
Contact Sequence ID:	13293004.00000
Person ID:	13003858.00000
Contact Sequence ID:	13298862.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Assessment History:

Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	07/06/93
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	07/06/93
Priority Level:	Not reported
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	09/23/92
Priority Level:	Not reported

Z120 **SOUTHWEST COACHES INC** **CA LUST** **S101302104**
North **1902 NATIONAL AV** **CA SWEEPS UST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SAN DIEGO CO. SAM**
0.454 mi.
2398 ft. **Site 2 of 6 in cluster Z**

Relative: **Higher**

Actual: **53 ft.**

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT1858
Local Case:	H10432-001

SOUTHWEST COACHES INC (Continued) **S101302104**

Substance: Gasoline
Qty Leaked: 18000
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency: San Diego
How Found: Other Means
How Stopped: Other Means
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 11/08/1990
Date Stopped: 11/08/1990
Confirm Date: 11/16/1990
Submit Workplan: 11/19/90
Prelim Assess: / /
Desc Pollution: Not reported
Remed Plan: 09/24/1992
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 08/16/1993
Enforce Date: Not reported
Closed Date: 5/2/96
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 16'
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 1C
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 10432
Number: 9
Board Of Equalization: 44-022454
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10432
Number: Not reported
Board Of Equalization: 44-022454

SOUTHWEST COACHES INC (Continued) **S101302104**

Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010432-000001
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: OTHER
Number Of Tanks: 5

Status: Not reported
Comp Number: 10432
Number: Not reported
Board Of Equalization: 44-022454
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010432-000002
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10432
Number: Not reported
Board Of Equalization: 44-022454
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010432-000003
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: OIL
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 10432
Number: Not reported
Board Of Equalization: 44-022454
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-010432-000004
Tank Status: Not reported

SOUTHWEST COACHES INC (Continued) **S101302104**

Capacity:	4000
Active Date:	Not reported
Tank Use:	OIL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	10432
Number:	Not reported
Board Of Equalization:	44-022454
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-010432-000005
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	Not reported

SAN DIEGO CO. SAM:

Case Number:	H10432-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	5/2/1996
Date Began:	11/16/1990
Case Number:	H10432-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Preliminary Assessment
Date:	3/28/2008
Date Began:	3/28/2008

Z121 **SOUTHWEST COACHES, INC.** **CA NPDES** **U001572996**
North **1902 NATIONAL AVE** **CA HIST CORTESE** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA LUST**
0.454 mi. **CA SLIC**
2398 ft. **Site 3 of 6 in cluster Z** **CA HIST UST**

Relative:
Higher

Actual:
53 ft.

NPDES:

Npdes Number:	CAS000002
Facility Status:	Active
Agency Id:	0
Region:	9
Regulatory Measure Id:	439987
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37C368576

SOUTHWEST COACHES, INC. (Continued) **U001572996**

Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	12/24/2013
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	San Diego Community College District
Discharge Address:	3375 Camino del Rio S
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92108

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT1858

LUST:

Region:	STATE
Global Id:	T0607300643
Latitude:	32.7006579
Longitude:	-117.1448596
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/02/1996
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT1858
LOC Case Number:	H10432-001
File Location:	Local Agency
Potential Media Affect:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607300643
Status:	Open - Case Begin Date
Status Date:	11/28/1990

Global Id:	T0607300643
Status:	Completed - Case Closed
Status Date:	05/02/1996

Regulatory Activities:

Global Id:	T0607300643
Action Type:	ENFORCEMENT
Date:	11/28/1990
Action:	* Historical Enforcement

SLIC:

Region:	STATE
Facility Status:	**Open - Site Assessment**

SOUTHWEST COACHES, INC. (Continued) **U001572996**

Status Date:	03/28/2008
Global Id:	SLT19709625
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H10432-002
Latitude:	32.700793
Longitude:	-117.144616
Case Type:	Cleanup Program Site
Case Worker:	CF
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

HIST UST:

Region:	STATE
Facility ID:	00000054293
Facility Type:	Other
Other Type:	PUBLIC TRANSPORTATIO
Total Tanks:	0004
Contact Name:	DAVID O'NEIL, SUPERVISOR
Telephone:	6192327579
Owner Name:	FRANK GINGLARDY AND EDGAR DICK
Owner Address:	1125 PRESIOCA STREET
Owner City,St,Zip:	SPRING VALLEY, CA 92077
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	Pressure Test
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	Pressure Test
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Tank Construction:	Not reported
Leak Detection:	Pressure Test
Tank Num:	004

SOUTHWEST COACHES, INC. (Continued) **U001572996**

Container Num: 4
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Pressure Test

AA122 **PRO-LINE PAINTS COMPANY** **RCRA-LQG** **1000139073**
East **2646 MAIN STREET** **CA HIST CORTESE** **CAD044331130**
1/4-1/2 **SAN DIEGO, CA 92113** **CA LUST**
0.467 mi. **CA SWEEPS UST**
2468 ft. **Site 1 of 7 in cluster AA** **CA San Diego Co. HMMD**
CA EMI
Relative: **CA SAN DIEGO CO. SAM**
Higher

Actual: RCRA-LQG:
37 ft. Date form received by agency: 02/15/2008
Facility name: PRO-LINE PAINTS COMPANY
Facility address: 2646 MAIN STREET
SAN DIEGO, CA 92113
EPA ID: CAD044331130
Contact: ED BOCHENEK
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: (216) 566-2969
Contact email: EBOCHENEK@SHERWIN.COM
EPA Region: 09
Land type: Private
Classification: Large Quantity Generator
Description: Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:
Owner/operator name: KEN WINSLOW
Owner/operator address: 2646 MAIN STREET
SAN DIEGO, CA 92113
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: THE SHERWIN-WILLIAMS COMPANY
Owner/operator address: Not reported

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

	Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	08/26/1996
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	02/20/2006
Site name:	THE SHERWIN-WILLIAMS CO., PRO-LINE PAINT
Classification:	Large Quantity Generator
Date form received by agency:	02/24/2004
Site name:	SHERWIN WILLIAMS
Classification:	Large Quantity Generator
Date form received by agency:	02/21/2002
Site name:	SHERWIN WILLIAMS / PRO-LINE PAINT
Classification:	Large Quantity Generator
Date form received by agency:	10/12/2000
Site name:	SHERWIN-WILLIAMS CO DBA PRO-LINE PAI
Classification:	Large Quantity Generator
Date form received by agency:	03/04/1999
Site name:	PRO-LINE PAINT/SHERWIN-WILLIAMS CO
Classification:	Large Quantity Generator
Date form received by agency:	09/01/1996
Site name:	PRO-LINE PAINT CO
Classification:	Small Quantity Generator
Date form received by agency:	10/21/1980
Site name:	PRO-LINE PAINT CO
Classification:	Large Quantity Generator

Hazardous Waste Summary:

Waste code:	D001

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Waste code: D003
Waste name: A MATERIAL IS CONSIDERED TO BE A REACTIVE HAZARDOUS WASTE IF IT IS NORMALLY UNSTABLE, REACTS VIOLENTLY WITH WATER, GENERATES TOXIC GASES WHEN EXPOSED TO WATER OR CORROSIVE MATERIALS, OR IF IT IS CAPABLE OF DETONATION OR EXPLOSION WHEN EXPOSED TO HEAT OR A FLAME. ONE EXAMPLE OF SUCH WASTE WOULD BY WASTE GUNPOWDER.

Waste code: D004
Waste name: ARSENIC

Waste code: D005
Waste name: BARIUM

Waste code: D006
Waste name: CADMIUM

Waste code: D007
Waste name: CHROMIUM

Waste code: D008
Waste name: LEAD

Waste code: D009
Waste name: MERCURY

Waste code: D011
Waste name: SILVER

Waste code: D019
Waste name: CARBON TETRACHLORIDE

Waste code: D035
Waste name: METHYL ETHYL KETONE

Waste code: F002
Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING,

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F003
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NON-HALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS, AND, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: F005
Waste name: THE FOLLOWING SPENT NON-HALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NON-HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste code: U002
Waste name: ACETONE (I)

Waste code: U154
Waste name: METHANOL (I)

Facility Has Received Notices of Violations:
Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 07/26/1993
Date achieved compliance: 07/26/1998
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 12/04/1991
Date achieved compliance: 07/26/1993
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: FR - 262.10-12.A
Area of violation: Generators - General
Date violation determined: 09/17/1991
Date achieved compliance: 12/04/1991
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 12/20/2007
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 07/26/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/26/1998
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 12/04/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 07/26/1993
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 09/17/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 12/04/1991
Evaluation lead agency: State Contractor/Grantee

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT401

LUST:
Region: STATE
Global Id: T0607302716
Latitude: 32.693077
Longitude: -117.136981
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 06/03/1997

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	KH
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT401
LOC Case Number:	H00536-001
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Stoddard solvent / Mineral Spriits / Distillates
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607302716
Contact Type:	Local Agency Caseworker
Contact Name:	KEVIN HEATON
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	kevin.heaton@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607302716
Status:	Completed - Case Closed
Status Date:	06/03/1997
Global Id:	T0607302716
Status:	Open - Case Begin Date
Status Date:	08/29/1986

Regulatory Activities:

Global Id:	T0607302716
Action Type:	ENFORCEMENT
Date:	09/03/1986
Action:	Notice of Responsibility
Global Id:	T0607302716
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607302716
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607302716
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607302716
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Global Id: T0607302716
Action Type: ENFORCEMENT
Date: 05/28/1997
Action: Closure/No Further Action Letter - #H00536-001

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT401
Local Case: H00536-001
Substance: Stoddard Solvent
Qty Leaked: 0
Abate Method: No Action Required - incident is minor, requiring no remedial action
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Corrosion
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 08/29/1986
Date Stopped: 08/29/1986
Confirm Date: 08/29/1986
Submit Workplan: Not reported
Prelim Assess: 09/03/1986
Desc Pollution: Not reported
Remed Plan: 08/20/1987
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 09/03/1986
Enforce Date: 9/3/86
Closed Date: 5/28/97
Enforce Type: SEL
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 10FT
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 1C
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 536
Number: 9
Board Of Equalization: 44-021568
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	536
Number:	Not reported
Board Of Equalization:	44-021568
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000536-000001
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	5

Status:	Not reported
Comp Number:	536
Number:	Not reported
Board Of Equalization:	44-021568
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000536-000002
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	536
Number:	Not reported
Board Of Equalization:	44-021568
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000536-000003
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Status:	Not reported
Comp Number:	536
Number:	Not reported
Board Of Equalization:	44-021568
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000536-000004
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	536
Number:	Not reported
Board Of Equalization:	44-021568
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-000536-000005
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported

SAN DIEGO CO. HMMD:

Facility Id:	100536
Business Type:	6HK76
EPA Id Number:	CAD044331130
APN:	538-811-24-00
Last HMMD Inspection:	12/20/2007
Permit Status:	INAC
Permit Expiration:	12/31/2007
Facility Owner:	THE SHERWIN-WILLIAMS COMPANY
Facility Address:	2646 MAIN ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-3613
UST Owner:	SAN DIEGO COATINGS
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 100536 T001

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Last Update:	2012-11-02 14:17:38
Permit Number:	100536
Tank Type:	UNKNOWN
Additional Id:	2
Capacity Gallons:	2000
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1967-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100536 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	100536
Tank Type:	UNKNOWN
Additional Id:	3
Capacity Gallons:	2000
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1967-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100536 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	100536
Tank Type:	UNKNOWN
Additional Id:	4
Capacity Gallons:	2000
UST Contents:	Not reported
Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1967-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 100536 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	100536
Tank Type:	UNKNOWN
Additional Id:	5
Capacity Gallons:	2000
UST Contents:	Not reported

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Other Content Info:	SEE FILE FOR CONTENTS
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1967-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 100536 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	100536
Tank Type:	UNKNOWN
Additional Id:	6
Capacity Gallons:	1000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Violations Inactive Permits:

Facility Id:	100536
Update Date:	11/02/2012
Inspection Date:	03/19/2007
Violation Code:	6HV0224
Violation:	MISMANAGED EMPTY CONTAINERS >5GALS.
Violation Citation:	Failed to mark date on empty container larger than 5 gallons and/or manage it within one year. 66261.7(e) & (f).
Activity:	Inactive Permit
Facility Id:	100536
Update Date:	11/02/2012
Inspection Date:	05/19/2003
Violation Code:	6HV0139
Violation:	NO BIENNIAL REPORT TO DTSC
Violation Citation:	Generator has not submitted the biennial report to CAL-EPA as required and maintained a copy on site for review. CCR 66262.40, 66262.41
Activity:	Inactive Permit
Facility Id:	100536
Update Date:	11/02/2012
Inspection Date:	05/19/2003
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	Inactive Permit
Facility Id:	100536

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Update Date:	11/02/2012
Inspection Date:	03/19/2007
Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	Inactive Permit
Facility Id:	100536
Update Date:	11/02/2012
Inspection Date:	03/19/2007
Violation Code:	6HV0144
Violation:	SB14 COMPLIANCE DOCS UNAVAILABLE
Violation Citation:	TIERED PERMITTING: SB14 Compliance documentation not available for review. 25244.21, 25244.19, & 67100.3(a), 67100.2(a)
Activity:	Inactive Permit
Facility Id:	100536
Update Date:	11/02/2012
Inspection Date:	05/19/2003
Violation Code:	6HV0144
Violation:	SB14 COMPLIANCE DOCS UNAVAILABLE
Violation Citation:	TIERED PERMITTING: SB14 Compliance documentation not available for review. 25244.21, 25244.19, & 67100.3(a), 67100.2(a)
Activity:	Inactive Permit

EMI:

Year:	1990
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	1721
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12
Reactive Organic Gases Tons/Yr:	12
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	4
Part. Matter 10 Micrometers & Smllr Tons/Yr:	4
Year:	1995
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	1721
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	17
Reactive Organic Gases Tons/Yr:	16
Carbon Monoxide Emissions Tons/Yr:	0

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5
Year:	1996
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	1721
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	17
Reactive Organic Gases Tons/Yr:	16
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5
Year:	1997
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	1721
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	17
Reactive Organic Gases Tons/Yr:	16
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	6
Part. Matter 10 Micrometers & Smllr Tons/Yr:	5
Year:	1998
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	1999

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2000
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2001
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0

Year:	2002
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2003
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0
Year:	2004
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.731
Reactive Organic Gases Tons/Yr:	7.731
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.236078
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.236078
Year:	2007
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.05
Reactive Organic Gases Tons/Yr:	8.05
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.07
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.07
Year:	2008
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.05
Reactive Organic Gases Tons/Yr:	8.05
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	.07
Part. Matter 10 Micrometers & Smllr Tons/Yr:	.07
Year:	2009
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.0600000000000005
Reactive Organic Gases Tons/Yr:	8.0600000000000005
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	8.0000000000000002E-2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	8.0000000000000002E-2
Year:	2010
County Code:	37
Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.0500000000000007
Reactive Organic Gases Tons/Yr:	8.0500000000000007
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	7.0000000000000007E-2
Part. Matter 10 Micrometers & Smllr Tons/Yr:	7.0000000000000007E-2
Year:	2011
County Code:	37

PRO-LINE PAINTS COMPANY (Continued) **1000139073**

Air Basin:	SD
Facility ID:	4387
Air District Name:	SD
SIC Code:	2851
Air District Name:	SAN DIEGO COUNTY APCD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8.06
Reactive Organic Gases Tons/Yr:	8.06
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.08
Part. Matter 10 Micrometers & Smllr Tons/Yr:	0.08

SAN DIEGO CO. SAM:

Case Number:	*H00536-001*
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Closed Case
Date:	6/3/1997
Date Began:	9/3/1986

AA123 **PROLINE PAINT STORE** **CERC-NFRAP** **1003879833**
East **2646 MAIN ST.** **CAD983658444**
1/4-1/2 **SAN DIEGO, CA 92113**
0.467 mi.
2468 ft. **Site 2 of 7 in cluster AA**

Relative: **Higher**

Actual: **37 ft.**

CERC-NFRAP:

Site ID:	0904772
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13288948.00000
Person ID:	13003854.00000
Contact Sequence ID:	13294543.00000
Person ID:	13003858.00000
Contact Sequence ID:	13300401.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	02/08/93
Priority Level:	Not reported
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	06/28/93
Priority Level:	Not reported

PROLINE PAINT STORE (Continued) **1003879833**

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 06/28/93
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

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124
ESE
1/4-1/2
0.469 mi.
2477 ft.

USCG SECTOR SAN DIEGO
2710 HARBOR DR
SAN DIEGO, CA 92101

CA SWEEPS UST **S100615726**
CA San Diego Co. HMMD **N/A**
CA SAN DIEGO CO. SAM

Relative:
Higher

Actual:
22 ft.

SWEEPS UST:

Status:	Active
Comp Number:	5335
Number:	9
Board Of Equalization:	44-012973
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-005335-000008
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	JET FUEL
Number Of Tanks:	2

Status:	Active
Comp Number:	5335
Number:	9
Board Of Equalization:	44-012973
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-005335-000009
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	JET FUEL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	5335
Number:	Not reported
Board Of Equalization:	44-012973
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-005335-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: 3

Status: Not reported
Comp Number: 5335
Number: Not reported
Board Of Equalization: 44-012973
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005335-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: AVIA. GAS
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 5335
Number: Not reported
Board Of Equalization: 44-012973
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005335-000003
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: AVIA. GAS
Number Of Tanks: Not reported

SAN DIEGO CO. HMMD:
Facility Id: 105335
Business Type: 6HK57
EPA Id Number: CAL000017096
APN: 760-024-06-01
Last HMMD Inspection: 05/27/2008
Permit Status: OPEN
Permit Expiration: 05/31/2013
Facility Owner: US COAST GUARD
Facility Address: 2710 N HARBOR DR
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92101-
UST Owner: UNITED STATES COAST GUARD ACTIVITIES S.D.
Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Y
Generate Haz Waste: Y

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:

UST Name:	UNDERGROUND TANK 105335 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	UNKNOWN
Additional Id:	#1
Capacity Gallons:	1000
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1960-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 105335 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	UNKNOWN
Additional Id:	#2
Capacity Gallons:	10000
UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1989-01-30 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	24
UST Monitor Method:	VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

UST Name:	UNDERGROUND TANK 105335 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	UNKNOWN
Additional Id:	3
Capacity Gallons:	10000
UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1989-01-30 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	24
UST Monitor Method:	VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

UST Name:	UNDERGROUND TANK 105335 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	DOUBLE WALL
Additional Id:	008 - J-3 DISPENSING TANK TO F.L./AT5226

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Capacity Gallons:	10000
UST Contents:	JET FUEL
Other Content Info:	JET FUEL
Reg Status:	REMOVED
Remove Close Date:	2006-01-19 00:00:00
Year Installed:	1988-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 105335 T009
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	DOUBLE WALL
Additional Id:	J-4 DISPENSING TANK TO F.L./AT5226
Capacity Gallons:	10000
UST Contents:	JET FUEL
Other Content Info:	JET FUEL
Reg Status:	REMOVED
Remove Close Date:	2006-01-19 00:00:00
Year Installed:	1988-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 105335 T010
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	DOUBLE WALL
Additional Id:	J.1 STORAGE ONLY/AT5226
Capacity Gallons:	10000
UST Contents:	JET FUEL
Other Content Info:	JET FUEL
Reg Status:	REMOVED
Remove Close Date:	2006-01-19 00:00:00
Year Installed:	1984-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 105335 T011
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	DOUBLE WALL
Additional Id:	J-2 STORAGE ONLY/AT5226
Capacity Gallons:	10000
UST Contents:	JET FUEL
Other Content Info:	JET FUEL
Reg Status:	REMOVED
Remove Close Date:	2006-01-19 00:00:00
Year Installed:	1984-01-01 00:00:00

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 20
UST Monitor Method: DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.

UST Name: UNDERGROUND TANK 105335 T012
Last Update: 2012-11-02 14:17:38
Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: 12 DIESEL FUEL TANK
Capacity Gallons: 0
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: SINGLE WALL
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 105335 T013
Last Update: 2012-11-02 14:17:38
Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: AT3601
Capacity Gallons: 10000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 105335 T014
Last Update: 2012-11-02 14:17:38
Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: AT3601
Capacity Gallons: 10000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

USCG SECTOR SAN DIEGO (Continued) **S100615726**

UST Name:	UNDERGROUND TANK 105335 T015
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	SINGLE WALL
Additional Id:	AT3601
Capacity Gallons:	4700
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1996-10-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 105335 T016
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	SINGLE WALL
Additional Id:	AT3601
Capacity Gallons:	75
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1996-10-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 105335 T017
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	SINGLE WALL
Additional Id:	AT3601
Capacity Gallons:	500
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1996-10-12 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Active Permits:

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 461 PAINT SLUDGE
Other Information:	PAINTS, THINNERS

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 222 OIL/WATER SEPARATION SLUDGE
Other Information: BILGE WATER
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 444 USED BATTERIES
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 901 INFECTIOUS WASTE, GENERAL
Other Information: RED BAGS HAUL TO NTC BRANCH CLINIC
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 134 AQUEOUS SOL'N W/LESS 10% ORG
Other Information: AQUEOUS PARTS WASHER
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)-
Other Information: SAND BLAST MEDIA
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 212 OXYGENATED SOLVENTS
Other Information:	OXYGENATED SOLVENTS PAINT GUN-CLEANING WASTE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 888 USED OIL FILTERS
Other Information:	OIL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL
Other Information:	4 ASTS
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	64742-54-2
Name:	LUBRICATING OILS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	JET FUEL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information:	WASTE ANTIFREEZE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)
Other Information:	ALKALINE BATTS/NICAD
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	PAINT
Other Information:	FLAMMABLE PAINT
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS
Other Information:	FUEL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	7440-37-1
Name:	ARGON
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	ACUTE
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	124-38-9
Name:	CARBON DIOXIDE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	9016-45-9
Name:	SAFE D'ORANG, CLEANER/ DEGREASER/ DEODORIZER
Other Information:	Not reported
Material Waste:	Material

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: ABSORBENT, OIL/RAGS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: AIRCRAFT CLEANING COMPOUND
Other Information: (ZEP NAV II)
Material Waste: Material
Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: GASOLINE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: JP5 JET FUEL
Other Information: THREE 12000 GALLON ASTS
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information: SHARPS HAUL TO NTC BRANCH CLINIC
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Violations Active Permits:

Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/30/2004
Violation Code:	6HV4209
Violation:	NO GENERATOR'S INFO ON RED BAGS/SHARPS
Violation Citation:	Red bags, sharps containers not labeled with generator's name, address, and phone number. 68.1205
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/22/2005
Violation Code:	6HV3192
Violation:	NO D.O. INSPECTION/INCOMPL;NO REPORTS
Violation Citation:	Designated Operator monthly inspection not conducted or incomplete; or DO inspection reports not onsite 2715 (c)(d)(e)
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/22/2005
Violation Code:	6HV0209
Violation:	WASTE ONSITE >90/180/270 DAYS
Violation Citation:	Hazardous waste is stored in excess of allowable time period (90 days) without a State permit or written variance. CCR 25201(a) & 66262.34(a)&(c)
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	12/09/2004
Violation Code:	6HV3114
Violation:	2NDRY CONT TEST NOT DONE/SENT TO CUPA
Violation Citation:	Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	05/20/2003
Violation Code:	6HV3113
Violation:	2NDRY CONT TEST NOT SENT TO CUPA
Violation Citation:	Secondary Containment testing not submitted to CUPA within 30 days. 2637(a)(4)
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/30/2004
Violation Code:	6HV3406
Violation:	AUTOMATIC LLD NOT CERTIFIED ANNUALLY
Violation Citation:	DOUBLE WALLED PRESSURIZED PIPING: OPTION 3-Automatic line leak detector not certified annually 25284.1(a)(4)(C); 2630(d), 2641(j)
Activity:	ACTIVE
Facility Id:	105335

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Update Date: 11/02/2012
Inspection Date: 06/22/2005
Violation Code: 6HV0138
Violation: NO TSDF SIGNED MANIFEST ONSITE
Violation Citation: Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 05/20/2003
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 05/20/2003
Violation Code: 6HV3601
Violation: SWCSP:PIPE INTEG NOT TESTED EVERY 3 YEAR
Violation Citation: SINGLE WALLED CONVENTIONAL SUCTION PIPING: Piping integrity test not performed every 3 years. 2643(d)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 06/30/2004
Violation Code: 6HV3405
Violation: LLD DOESN'T DETECT 3.0 GPH OR EQUIVA
Violation Citation: DOUBLE WALLED PRESSURIZED PIPING: OPTION 3-Line leak detector does not detect 3.0 gph or equivalent? 2636(f)(2)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 06/30/2004
Violation Code: 6HV4204
Violation: WARNING SIGN NOT POSTED
Violation Citation: MW designated accumulation area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 05/27/2008
Violation Code: 6HV4304
Violation: LQHE NOT OBTAINED FOR MEDWASTE
Violation Citation: Did not apply for and receive a limited-quantity hauling exemption for self-hauled medical waste (<20 pounds of waste per week). 118025, 118030(a)(1)
Activity: ACTIVE

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/30/2004
Violation Code:	6HV3113
Violation:	2NDRY CONT TEST NOT SENT TO CUPA
Violation Citation:	Secondary Containment testing not submitted to CUPA within 30 days. 2637(a)(4)
Activity:	ACTIVE

Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/22/2005
Violation Code:	6HV3191
Violation:	NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation:	Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)
Activity:	ACTIVE

Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	05/27/2008
Violation Code:	6HV1605
Violation:	NO DAILY TANK INSPECTION/LOG
Violation Citation:	Failed to inspect and/or document daily HW tank system inspections. 66265.195 (c)
Activity:	ACTIVE

Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	05/20/2003
Violation Code:	6HV3112
Violation:	2NDRY CONT TEST NOT DONE (6/36 MOS.)
Violation Citation:	Secondary containment testing not conducted at 6months/36 months. 25284.1; 2637(a)
Activity:	ACTIVE

Facility Id:	105335
Business Type:	6HK57
EPA Id Number:	CAL000017096
APN:	760-024-06-01
Last HMMD Inspection:	05/27/2008
Permit Status:	OPEN
Permit Expiration:	05/31/2013
Facility Owner:	US COAST GUARD
Facility Address:	2710 N HARBOR DR
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92101-
UST Owner:	UNITED STATES COAST GUARD ACTIVITIES S.D.
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Y
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

USCG SECTOR SAN DIEGO (Continued) **S100615726**

UST:

UST Name:	UNDERGROUND TANK 105335 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	UNKNOWN
Additional Id:	#1
Capacity Gallons:	1000
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1986-11-08 00:00:00
Year Installed:	1960-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name:	UNDERGROUND TANK 105335 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	UNKNOWN
Additional Id:	#2
Capacity Gallons:	10000
UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1989-01-30 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	24
UST Monitor Method:	VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

UST Name:	UNDERGROUND TANK 105335 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	UNKNOWN
Additional Id:	3
Capacity Gallons:	10000
UST Contents:	AVIATION FUEL
Other Content Info:	AVIATION FUEL
Reg Status:	REMOVED
Remove Close Date:	1989-01-30 00:00:00
Year Installed:	1965-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	24
UST Monitor Method:	VISUAL MONITORING: DAILY (MINIMUM) LOG OF INSPECTIONS

UST Name:	UNDERGROUND TANK 105335 T008
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	DOUBLE WALL
Additional Id:	008 - J-3 DISPENSING TANK TO F.L./AT5226
Capacity Gallons:	10000
UST Contents:	JET FUEL

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Other Content Info:	JET FUEL
Reg Status:	REMOVED
Remove Close Date:	2006-01-19 00:00:00
Year Installed:	1988-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 105335 T009
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	DOUBLE WALL
Additional Id:	J-4 DISPENSING TANK TO F.L./AT5226
Capacity Gallons:	10000
UST Contents:	JET FUEL
Other Content Info:	JET FUEL
Reg Status:	REMOVED
Remove Close Date:	2006-01-19 00:00:00
Year Installed:	1988-01-01 00:00:00
Pipe Type:	DOUBLE WALL
Delivery System:	PRESSURE
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 105335 T010
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	DOUBLE WALL
Additional Id:	J.1 STORAGE ONLY/AT5226
Capacity Gallons:	10000
UST Contents:	JET FUEL
Other Content Info:	JET FUEL
Reg Status:	REMOVED
Remove Close Date:	2006-01-19 00:00:00
Year Installed:	1984-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	20
UST Monitor Method:	DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.
UST Name:	UNDERGROUND TANK 105335 T011
Last Update:	2012-11-02 14:17:38
Permit Number:	105335
Tank Type:	DOUBLE WALL
Additional Id:	J-2 STORAGE ONLY/AT5226
Capacity Gallons:	10000
UST Contents:	JET FUEL
Other Content Info:	JET FUEL
Reg Status:	REMOVED
Remove Close Date:	2006-01-19 00:00:00
Year Installed:	1984-01-01 00:00:00
Pipe Type:	Not reported
Delivery System:	Not reported

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Monitor Code: 20
UST Monitor Method: DW TANK DW PRESSURE PIPE W/ SHUT OFF AND ALARM ON LINE LEAK DETECTOR: INTERSTITIAL.

UST Name: UNDERGROUND TANK 105335 T012
Last Update: 2012-11-02 14:17:38
Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: 12 DIESEL FUEL TANK
Capacity Gallons: 0
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: SINGLE WALL
Delivery System: Not reported
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 105335 T013
Last Update: 2012-11-02 14:17:38
Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: AT3601
Capacity Gallons: 10000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 105335 T014
Last Update: 2012-11-02 14:17:38
Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: AT3601
Capacity Gallons: 10000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 105335 T015
Last Update: 2012-11-02 14:17:38

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: AT3601
Capacity Gallons: 4700
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 105335 T016
Last Update: 2012-11-02 14:17:38
Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: AT3601
Capacity Gallons: 75
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

UST Name: UNDERGROUND TANK 105335 T017
Last Update: 2012-11-02 14:17:38
Permit Number: 105335
Tank Type: SINGLE WALL
Additional Id: AT3601
Capacity Gallons: 500
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1996-10-12 00:00:00
Year Installed: Not reported
Pipe Type: Not reported
Delivery System: Not reported
Monitor Code: 90
UST Monitor Method: NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Active Permits:
Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 461 PAINT SLUDGE
Other Information: PAINTS, THINNERS
Material Waste: Waste
Hazardous Categories 1: Not reported

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 222 OIL/WATER SEPARATION SLUDGE
Other Information: BILGE WATER
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 444 USED BATTERIES
Other Information: Not reported
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 901 INFECTIOUS WASTE, GENERAL
Other Information: RED BAGS HAUL TO NTC BRANCH CLINIC
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: 7727-37-9
Name: NITROGEN
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 134 AQUEOUS SOL'N W/LESS 10% ORG
Other Information: AQUEOUS PARTS WASHER
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 181 INORGANIC SOLID WASTE (OTHER)-
Other Information: SAND BLAST MEDIA
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 212 OXYGENATED SOLVENTS
Other Information:	OXYGENATED SOLVENTS PAINT GUN-CLEANING WASTE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 888 USED OIL FILTERS
Other Information:	OIL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	68476-34-6
Name:	DIESEL
Other Information:	4 ASTS
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	ACUTE

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	64742-54-2
Name:	LUBRICATING OILS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	JET FUEL FILTERS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information:	WASTE ANTIFREEZE
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 181 INORGANIC SOLID WASTE (OTHER)

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Other Information:	ALKALINE BATTS/NICAD
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	USED OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	PAINT
Other Information:	FLAMMABLE PAINT
Material Waste:	Material
Hazardous Categories 1:	FIRE
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 331 OFF-SPEC,AGED,SURPLUS ORGANICS
Other Information:	FUEL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	7440-37-1
Name:	ARGON
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	ACUTE
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	124-38-9
Name:	CARBON DIOXIDE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported
Facility Id:	105335
Update Date:	11/02/2012
Case Number:	9016-45-9
Name:	SAFE D'ORANG, CLEANER/ DEGREASER/ DEODORIZER
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	CHRONIC

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 352 ORGANIC SOLIDS (OTHER)
Other Information: ABSORBENT, OIL/RAGS
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: AIRCRAFT CLEANING COMPOUND
Other Information: (ZEP NAV II)
Material Waste: Material
Hazardous Categories 1: CHRONIC
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: 8006-61-9
Name: GASOLINE
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: ACUTE

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: JP5 JET FUEL
Other Information: THREE 12000 GALLON ASTS
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: 7782-44-7
Name: OXYGEN
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: PRESSURE RELEASE
Hazardous Categories 2: Not reported

Facility Id: 105335
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 902 INFECTIOUS WASTE, SHARPS
Other Information: SHARPS HAUL TO NTC BRANCH CLINIC
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Violations Active Permits:

Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/30/2004
Violation Code:	6HV4209
Violation:	NO GENERATOR'S INFO ON RED BAGS/SHARPS
Violation Citation:	Red,bags, sharps containers not labeled with generator's name, address, and phone number. 68.1205
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/22/2005
Violation Code:	6HV3192
Violation:	NO D.O INSPECTION/INCOMPL;NO REPORTS
Violation Citation:	Designated Operator monthly inspection not conducted or incomplete; or DO inspection reports not onsite 2715 (c)(d)(e)
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/22/2005
Violation Code:	6HV0209
Violation:	WASTE ONSITE >90/180/270 DAYS
Violation Citation:	Hazardous waste is stored in excess of allowable time period (90 days) without a State permit or written variance. CCR 25201(a) & 66262.34(a)&(c)
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	12/09/2004
Violation Code:	6HV3114
Violation:	2NDRY CONT TEST NOT DONE/SENT TO CUPA
Violation Citation:	Secondary containment testing not done at 6/36 months and/or not sent to CUPA within 30 days. 25284.1; 2637(a)&(e)
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	05/20/2003
Violation Code:	6HV3113
Violation:	2NDRY CONT TEST NOT SENT TO CUPA
Violation Citation:	Secondary Containment testing not submitted to CUPA within 30 days. 2637(a)(4)
Activity:	ACTIVE
Facility Id:	105335
Update Date:	11/02/2012
Inspection Date:	06/30/2004
Violation Code:	6HV3406
Violation:	AUTOMATIC LLD NOT CERTIFIED ANNUALLY
Violation Citation:	DOUBLE WALLED PRESSURIZED PIPING: OPTION 3-Automatic line leak detector not certified annually 25284.1(a)(4)(C); 2630(d), 2641(j)
Activity:	ACTIVE
Facility Id:	105335

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Update Date: 11/02/2012
Inspection Date: 06/22/2005
Violation Code: 6HV0138
Violation: NO TSDF SIGNED MANIFEST ONSITE
Violation Citation: Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 05/20/2003
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 05/20/2003
Violation Code: 6HV3601
Violation: SWCSP:PIPE INTEG NOT TESTED EVERY 3 YEAR
Violation Citation: SINGLE WALLED CONVENTIONAL SUCTION PIPING: Piping integrity test not performed every 3 years. 2643(d)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 06/30/2004
Violation Code: 6HV3405
Violation: LLD DOESN'T DETECT 3.0 GPH OR EQUIVA
Violation Citation: DOUBLE WALLED PRESSURIZED PIPING: OPTION 3-Line leak detector does not detect 3.0 gph or equivalent? 2636(f)(2)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 06/30/2004
Violation Code: 6HV4204
Violation: WARNING SIGN NOT POSTED
Violation Citation: MW designated accumulation area not posted with an approved and legible biohazardous waste "warning sign" in English and Spanish. 118310
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 05/27/2008
Violation Code: 6HV4304
Violation: LQHE NOT OBTAINED FOR MEDWASTE
Violation Citation: Did not apply for and receive a limited-quantity hauling exemption for self-hauled medical waste (<20 pounds of waste per week). 118025, 118030(a)(1)
Activity: ACTIVE

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 06/30/2004
Violation Code: 6HV3113
Violation: 2NDRY CONT TEST NOT SENT TO CUPA
Violation Citation: Secondary Containment testing not submitted to CUPA within 30 days. 2637(a)(4)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 06/22/2005
Violation Code: 6HV3191
Violation: NO D.O. CERT/NOTIFICATION/CHANGE
Violation Citation: Designated Operator Notification/Change form not submitted and/or D.O. not ICC certified. 2715 (a)(b)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 05/27/2008
Violation Code: 6HV1605
Violation: NO DAILY TANK INSPECTION/LOG
Violation Citation: Failed to inspect and/or document daily HW tank system inspections. 66265.195 (c)
Activity: ACTIVE

Facility Id: 105335
Update Date: 11/02/2012
Inspection Date: 05/20/2003
Violation Code: 6HV3112
Violation: 2NDRY CONT TEST NOT DONE (6/36 MOS.)
Violation Citation: Secondary containment testing not conducted at 6months/36 months. 25284.1; 2637(a)
Activity: ACTIVE

SAN DIEGO CO. SAM:
Case Number: H05335-001
Agency: DEH Site Assessment & Mitigation
Funding: **Non Billable**
Facility Type: Failed Integrity Test
Facility Status: Closed Case
Date: 7/10/1987
Date Began: 1/23/1987

Case Number: H05335-002
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Closed Case
Date: 4/19/2001
Date Began: 8/22/1988

Case Number: H05335-003
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - Federal Fund**

USCG SECTOR SAN DIEGO (Continued) **S100615726**

Facility Type: GW With No Beneficial Use Designation
Facility Status: Closed Case
Date: 4/19/2001
Date Began: 1/1/1960

Z125 **BETTENCOURT AUTO BODY** **CA HIST CORTESE S102425218**
North **1865 NATIONAL** **CA LUST N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.486 mi.
2566 ft. **Site 4 of 6 in cluster Z**

Relative:
Higher

Actual:
53 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT851

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT851
Local Case: H05615-001
Substance: 0
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Remove Contents
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 11/18/1987
Date Stopped: 11/18/1987
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: 12/07/1987
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 11/23/1987
Enforce Date: Not reported
Closed Date: 2/12/88
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

Z126 **URBAN CORPS OF SAN DIEGO** **CA SLIC** **S104746214**
North **1864 NATIONAL AV** **CA San Diego Co. HMMD** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SAN DIEGO CO. SAM**
0.488 mi.
2574 ft. **Site 5 of 6 in cluster Z**

Relative:
Higher

Actual:
53 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/12/1988
Global Id:	T0607303098
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H05615-001
Latitude:	32.701333
Longitude:	-117.145464
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT851
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	105615
Business Type:	6HK70
EPA Id Number:	CAL000027724
APN:	538-250-10-00
Last HMMD Inspection:	10/07/1997
Permit Status:	INAC
Permit Expiration:	10/07/1997
Facility Owner:	TONY MAURICIO
Facility Address:	1864 NATIONAL AVE
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2114
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 105615 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	105615
Tank Type:	SINGLE WALL
Additional Id:	AT1038-2
Capacity Gallons:	550
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1987-11-18 00:00:00
Year Installed:	Not reported

URBAN CORPS OF SAN DIEGO (Continued) **S104746214**

Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY
UST Name:	UNDERGROUND TANK 105615 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	105615
Tank Type:	SINGLE WALL
Additional Id:	AT1038-1
Capacity Gallons:	550
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1987-11-18 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	07
UST Monitor Method:	SW TANK SW PRESSURE PIPE W/RESTRICTIVE LLD W/DAILY RECONCILIATION OR WEEKLY GAUGING: TANK AND PIPE TEST ANNUALLY

SAN DIEGO CO. SAM:

Case Number:	H05615-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Private - VAP**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	2/12/1988
Date Began:	11/25/1987

AA127 **J J AUTO BODY** **CA HIST CORTESE** **S102430792**
East **2694 MAIN ST** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SWEEPS UST**
0.488 mi.
2575 ft. **Site 3 of 7 in cluster AA**

Relative:
Higher

Actual:
37 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT360

LUST:

Region:	STATE
Global Id:	T0607302367
Latitude:	32.6928822
Longitude:	-117.1359781
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/26/1989
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT360

J J AUTO BODY (Continued) **S102430792**

LOC Case Number: H12608-001
File Location: Local Agency
Potential Media Affect: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607302367
Status: Completed - Case Closed
Status Date: 05/26/1989

Global Id: T0607302367
Status: Open - Case Begin Date
Status Date: 03/03/1986

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT360
Local Case: H12608-001
Substance: Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Tank Closure
How Stopped: Close Tank
Source: Tank
Cause: Corrosion
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 02/28/1986
Date Stopped: 02/28/1986
Confirm Date: 03/03/1986
Submit Workplan: Not reported
Prelim Assess: / /
Desc Pollution: Not reported
Remed Plan: 03/19/1987
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 03/03/1986
Enforce Date: Not reported
Closed Date: 5/26/89
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: 24'
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

J J AUTO BODY (Continued) **S102430792**

SWEEPS UST:

Status:	Active
Comp Number:	12608
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-012608-000008
Tank Status:	A
Capacity:	8000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	3

Status:	Active
Comp Number:	12608
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-012608-000009
Tank Status:	A
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	LEADED
Number Of Tanks:	Not reported

Status:	Active
Comp Number:	12608
Number:	9
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	06-26-92
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-012608-000010
Tank Status:	A
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	12608
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported

J J AUTO BODY (Continued) **S102430792**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-012608-000001
Tank Status:	Not reported
Capacity:	300
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	WASTE
Content:	Not reported
Number Of Tanks:	5

Status:	Not reported
Comp Number:	12608
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-012608-000002
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	12608
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-012608-000003
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	AVIA. GAS
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	12608
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-012608-000004
Tank Status:	Not reported
Capacity:	550

J J AUTO BODY (Continued) **S102430792**

Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	12608
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-012608-000005
Tank Status:	Not reported
Capacity:	550
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	LEADED
Number Of Tanks:	Not reported

AA128 **J J AUTO BODY** **CA SAN DIEGO CO. SAM** **S108407092**
East **2694 MAIN ST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113**
0.488 mi.
2575 ft. **Site 4 of 7 in cluster AA**

Relative:
Higher

Actual:
37 ft.

SAN DIEGO CO. SAM:

Case Number:	H12608-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Closed Case
Date:	5/26/1989
Date Began:	3/3/1986

AA129 **MARKEL-JOHNSON POULTRY CO INC** **CA HIST CORTESE** **S100726063**
East **2697 MAIN ST** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SWEEPS UST**
0.488 mi. **CA San Diego Co. HMMD**
2579 ft. **Site 5 of 7 in cluster AA** **CA SAN DIEGO CO. SAM**

Relative:
Higher

Actual:
37 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT3106

LUST:

Region:	STATE
Global Id:	T0607301872
Latitude:	32.692379
Longitude:	-117.136242
Case Type:	LUST Cleanup Site

MARKEL-JOHNSON POULTRY CO INC (Continued) **S100726063**

Status: Completed - Case Closed
Status Date: 10/05/1995
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT3106
LOC Case Number: H02891-001
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607301872
Status: Open - Case Begin Date
Status Date: 06/20/1995

Global Id: T0607301872
Status: Completed - Case Closed
Status Date: 10/05/1995

Regulatory Activities:
Global Id: T0607301872
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607301872
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607301872
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T0607301872
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT3106
Local Case: H02891-001
Substance: Gasoline
Qty Leaked: 0
Abate Method: Not reported
Local Agency: San Diego
How Found: Not reported
How Stopped: Remove Contents
Source: Unknown

MARKEL-JOHNSON POULTRY CO INC (Continued) **S100726063**

Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 06/20/1995
Date Stopped: 06/20/1995
Confirm Date: / /
Submit Workplan: Not reported
Prelim Assess: 06/20/1995
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: 9/8/95
Began Monitor: Not reported
Release Date: 06/20/1995
Enforce Date: Not reported
Closed Date: 10/5/95
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: Low priority. Priority ranking can change over time.
File Dispn: Administratively opened on database, however no file physically exists
Interim Remedial Actions: Not reported
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:
Status: Active
Comp Number: 2891
Number: 9
Board Of Equalization: 44-021751
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-002891-000001
Tank Status: A
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: OTHER
Number Of Tanks: 1

SAN DIEGO CO. HMMD:
Facility Id: 102891
Business Type: 6HK28
EPA Id Number: Not reported
APN: 538-812-23-00
Last HMMD Inspection: 08/16/1993
Permit Status: INAC
Permit Expiration: 08/02/1995
Facility Owner: ROMSAR INC
Facility Address: 2697 MAIN ST
Facility City: SAN DIEGO

MARKEL-JOHNSON POULTRY CO INC (Continued) **S100726063**

Facility State:	CA
Facility Zip:	92113-
UST Owner:	PAUL C MARKEL
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 102891 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	102891
Tank Type:	SINGLE WALL
Additional Id:	1
Capacity Gallons:	1000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1995-06-20 00:00:00
Year Installed:	Not reported
Pipe Type:	SINGLE WALL
Delivery System:	SUCTION
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 102891 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	102891
Tank Type:	SINGLE WALL
Additional Id:	AT3459
Capacity Gallons:	1000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	CLOSED
Remove Close Date:	1995-07-28 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

SAN DIEGO CO. SAM:

Case Number:	H02891-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - Federal Fund**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	10/5/1995
Date Began:	6/20/1995

Y130 **FREIGHT HANDLERS INC** **CA SLIC** **S104750828**
NW **1790 WATER ST** **CA San Diego Co. HMMD** **N/A**
1/4-1/2 **SAN DIEGO, CA 92101** **CA SAN DIEGO CO. SAM**
0.489 mi.
2581 ft. **Site 2 of 2 in cluster Y**

Relative:
Lower

Actual:
15 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	12/01/1996
Global Id:	T0608125302
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H25935-002
Latitude:	32.697445
Longitude:	-117.152319
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/07/1995
Global Id:	T0608195545
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H25935-001
Latitude:	32.697445
Longitude:	-117.152319
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	Not reported
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	125935
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	DEH-125935
Last HMMD Inspection:	Not reported
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	FREIGHT HANDLERS INC
Facility Address:	1790 WATER ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92101-7826
UST Owner:	Not reported

FREIGHT HANDLERS INC (Continued) **S104750828**

Handle Regulated Hazmat: Not reported
Own Or Operate UST: Not reported
Subject To APSA: Not reported
Generate Haz Waste: Not reported
Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

SAN DIEGO CO. SAM:
Case Number: H25935-002
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Complaint
Facility Status: Closed Case
Date: 12/1/1996
Date Began: Not reported

Case Number: H25935-001
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 2/7/1995
Date Began: 7/17/1990

Z131 **FIRE RESCUE- FIRE STATION #07** **CA HIST CORTESE** **S101301972**
North **944 CROSBY ST** **CA LUST** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA SLIC**
0.491 mi. **CA San Diego Co. HMMD**
2590 ft. **Site 6 of 6 in cluster Z**

Relative:
Higher

Actual:
58 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT1910

LUST:
Region: STATE
Global Id: T0607300690
Latitude: 32.7011739
Longitude: -117.1447436
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 02/12/2004
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT1910
LOC Case Number: H21195-002
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

FIRE RESCUE- FIRE STATION #07 (Continued) **S101301972**

Global Id: T0607300690
Status: Open - Case Begin Date
Status Date: 01/29/1991

Global Id: T0607300690
Status: Completed - Case Closed
Status Date: 02/12/2004

Regulatory Activities:
Global Id: T0607300690
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607300690
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607300690
Action Type: ENFORCEMENT
Date: 02/05/1991
Action: Notice of Responsibility

Global Id: T0607300690
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T0607300690
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

LUST REG 9:
Region: 9
Status: Preliminary site assessment underway
Case Number: 9UT1910
Local Case: H21195-002
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Not reported
Local Agency: San Diego
How Found: Other Means
How Stopped: Other Means
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Other ground water affected
Date Found: 01/29/1991
Date Stopped: 01/29/1991
Confirm Date: 01/29/1991
Submit Workplan: 2/4/91
Prelim Assess: 02/06/1991
Desc Pollution: Not reported

FIRE RESCUE- FIRE STATION #07 (Continued) **S101301972**

Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 01/29/1991
Enforce Date: Not reported
Closed Date: Not reported
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: 908.22
GW Depth: Not reported
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: No
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 06/27/1989
Global Id: T0608146218
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H21195-001
Latitude: 32.7010415664096
Longitude: -117.144362926483
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Diesel
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:
Facility Id: 121195
Business Type: 6HK23
EPA Id Number: CAL000290022
APN: 538-250-16-00
Last HMMD Inspection: 03/28/2012
Permit Status: OPEN
Permit Expiration: 06/30/2013
Facility Owner: CITY OF SAN DIEGO
Facility Address: 3870 KEARNY VILLA RD
Facility City: SAN DIEGO
Facility State: CA
Facility Zip: 92123-1702
UST Owner: CITY OF SAN DIEGO
Handle Regulated Hazmat: Y
Own Or Operate UST: Y
Subject To APSA: Not reported
Generate Haz Waste: Not reported

FIRE RESCUE- FIRE STATION #07 (Continued) **S101301972**

Treat Haz Waste: Not reported
Generate Medical Waste: Not reported

UST:
UST Name: UNDERGROUND TANK 121195 T001
Last Update: 2012-11-02 14:17:38
Permit Number: 121195
Tank Type: SINGLE WALL
Additional Id: 1
Capacity Gallons: 280
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: REMOVED
Remove Close Date: 1991-01-31 00:00:00
Year Installed: 1957-01-01 00:00:00
Pipe Type: SINGLE WALL
Delivery System: SUCTION
Monitor Code: 05
UST Monitor Method: SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name: UNDERGROUND TANK 121195 T002
Last Update: 2012-11-02 14:17:38
Permit Number: 121195
Tank Type: DOUBLE WALL
Additional Id: NT1478 /RT2446
Capacity Gallons: 1000
UST Contents: DIESEL
Other Content Info: DIESEL
Reg Status: ACTIVE
Remove Close Date: Not reported
Year Installed: 1990-01-01 00:00:00
Pipe Type: DOUBLE WALL
Delivery System: SUCTION
Monitor Code: 21
UST Monitor Method: DW TANK DW SUCTION AND/ OR GRAVITY PIPING WITH INTERSTITIAL MONITORS: INTERSTITIAL.

Active Permits:
Facility Id: 121195
Update Date: 11/02/2012
Case Number: 68476-34-6
Name: DIESEL
Other Information: UNDERGROUND TANK 121195 T002; AST
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

Facility Id: 121195
Update Date: 11/02/2012
Case Number: 68476-34-6
Name: DIESEL FUEL
Other Information: Not reported
Material Waste: Material
Hazardous Categories 1: FIRE
Hazardous Categories 2: Not reported

FIRE RESCUE- FIRE STATION #07 (Continued) **S101301972**

Violations Active Permits:

Facility Id:	121195
Update Date:	11/02/2012
Inspection Date:	03/24/2004
Violation Code:	6HV3262
Violation:	SEC CONT PIPING DRAINAGE OBSTRUCTED
Violation Citation:	Secondary containment piping obstructed preventing drainage to sump. 2632
Activity:	ACTIVE

Facility Id:	121195
Update Date:	11/02/2012
Inspection Date:	03/28/2006
Violation Code:	6HV3261
Violation:	DISPENSER CONTAINMENT NOT DRY
Violation Citation:	Dispenser containment not free of liquid. 2631(d)(4)
Activity:	ACTIVE

Facility Id:	121195
Update Date:	11/02/2012
Inspection Date:	03/23/2010
Violation Code:	6HV3258
Violation:	SENSORS NOT AT LOW POINT OR ADEQUATELY
Violation Citation:	Sensors not placed adequately and/or at low point in sumps. 2641(a), 25291(a)(7)(C)
Activity:	ACTIVE

Facility Id:	121195
Update Date:	11/02/2012
Inspection Date:	03/28/2011
Violation Code:	6HV3263
Violation:	MONITOR SYSTEM NOT ALL FUNCTIONAL
Violation Citation:	Monitoring system components &/or devices are not all functional. 2630, 2641(j), 2632
Activity:	ACTIVE

Facility Id:	121195
Update Date:	11/02/2012
Inspection Date:	03/24/2004
Violation Code:	6HV3264
Violation:	SPILL CONT. NOT TESTED ANNUALLY
Violation Citation:	Spill containment at fill point not tested annually. 25284.2
Activity:	ACTIVE

Facility Id:	121195
Update Date:	11/02/2012
Inspection Date:	03/26/2003
Violation Code:	6HV3257
Violation:	2NDRY CONTAINMENT NOT LIQUID FREE
Violation Citation:	Secondary containment system components not liquid free. 2631(d)(4)
Activity:	ACTIVE

132
NNW
1/4-1/2
0.494 mi.
2610 ft.

Relative:
Higher

Actual:
34 ft.

SUPERIOR CRANE AND RIGGING, INC.
1779 MAIN STREET
SAN DIEGO, CA 92113

CERC-NFRAP **1003879836**
CAD983658477

CERC-NFRAP:
Site ID: 0904777
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13288678.00000
Person ID: 13003854.00000

Contact Sequence ID: 13294273.00000
Person ID: 13003858.00000

Contact Sequence ID: 13300131.00000
Person ID: 13004003.00000

CERCLIS-NFRAP Site Alias Name(s):
Alias Name: STANDARD IRON WORKS
Alias Address: FOOT OF BEARDSLEY
CA

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: / /
Date Completed: 02/08/93
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 09/17/93
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/17/93
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

---

133
ENE
1/4-1/2
0.495 mi.
2611 ft.

Relative:
Higher

Actual:
47 ft.

ABC CONSTRUCTION CO
2665 NATIONAL AVENUE
SAN DIEGO, CA 92113

RCRA-SQG **1000108586**
FINDS **CAD981405418**
CA HIST CORTESE
CA LUST
CA SLIC
CA HIST UST
CA SWEEPS UST
CA Notify 65
CA San Diego Co. HMMD
CA SAN DIEGO CO. SAM

RCRA-SQG:
Date form received by agency: 05/06/1986
Facility name: ABC CONSTRUCTION CO
Facility address: 2665 NATIONAL AVENUE

ABC CONSTRUCTION CO (Continued) **1000108586**

SAN DIEGO, CA 92113
EPA ID: CAD981405418
Mailing address: 3120 NATIONAL AVENUE
SAN DIEGO, CA 92113
Contact: ENVIRONMENTAL MANAGER
Contact address: 2665 NATIONAL AVENUE
SAN DIEGO, CA 92113
Contact country: US
Contact telephone: (619) 239-3428
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: ABC CONSTRUCTION CO
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

ABC CONSTRUCTION CO (Continued) **1000108586**

Violation Status: No violations found

FINDS:

Registry ID: 110002696636

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Registry ID: 110055819930

Environmental Interest/Information System

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT2158

LUST:

Region:	STATE
Global Id:	T0607300927
Latitude:	32.6958111
Longitude:	-117.1367142
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/07/2008
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT2158
LOC Case Number:	H05600-002
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607300927
Status:	Open - Case Begin Date
Status Date:	05/18/1989

Global Id:	T0607300927
Status:	Completed - Case Closed
Status Date:	05/07/2008

ABC CONSTRUCTION CO (Continued) **1000108586**

Regulatory Activities:

Global Id:	T0607300927
Action Type:	ENFORCEMENT
Date:	10/11/2006
Action:	Notice of Responsibility
Global Id:	T0607300927
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607300927
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607300927
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607300927
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

LUST REG 9:

Region:	9
Status:	Preliminary site assessment underway
Case Number:	9UT2158
Local Case:	H05600-002
Substance:	Regular Gasoline
Qty Leaked:	0
Abate Method:	Not reported
Local Agency:	San Diego
How Found:	Other Means
How Stopped:	Other Means
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	01/13/1992
Date Stopped:	01/13/1992
Confirm Date:	05/24/1989
Submit Workplan:	Not reported
Prelim Assess:	06/02/1989
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	01/13/1992
Enforce Date:	Not reported
Closed Date:	Not reported
Enforce Type:	Not reported
Pilot Program:	LOP

ABC CONSTRUCTION CO (Continued) **1000108586**

Basin Number: 908.22
GW Depth: ~11
Beneficial Use: No Beneficial groundwater use
NPDES Number: Not reported
Priority: 2B
File Dispn: File discarded, case closed
Interim Remedial Actions: No
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SLIC:
Region: STATE
Facility Status: **Completed - Case Closed**
Status Date: 12/22/1988
Global Id: T0608106750
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H05600-001
Latitude: 32.695616
Longitude: -117.136646
Case Type: Cleanup Program Site
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Under Investigation
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

HIST UST:
Region: STATE
Facility ID: 00000014955
Facility Type: Other
Other Type: CONSTRUCTION
Total Tanks: 0002
Contact Name: ROBERT CZUBERNAT
Telephone: 6192393428
Owner Name: ABC CONSTRUCTION CO., INC.
Owner Address: 3120 NATIONAL AVENUE
Owner City,St,Zip: SAN DIEGO, CA 92113

Tank Num: 001
Container Num: 001
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Pressure Test

Tank Num: 002
Container Num: 002
Year Installed: Not reported
Tank Capacity: 00000500
Tank Used for: PRODUCT

ABC CONSTRUCTION CO (Continued) **1000108586**

Type of Fuel: REGULAR
Tank Construction: Not reported
Leak Detection: Pressure Test

SWEEPS UST:
Status: Active
Comp Number: 5600
Number: 9
Board Of Equalization: 44-022249
Referral Date: Not reported
Action Date: 06-26-92
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005600-000002
Tank Status: A
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: P
Content: LEADED
Number Of Tanks: 1

Status: Not reported
Comp Number: 5600
Number: Not reported
Board Of Equalization: 44-022249
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 37-000-005600-000001
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92113-3617

SAN DIEGO CO. HMMD:
Facility Id: 105600
Business Type: 6HK70
EPA Id Number: CAD981405418
APN: DEH-105600
Last HMMD Inspection: 08/31/2011
Permit Status: OPEN
Permit Expiration: 08/31/2013
Facility Owner: PATTY MAXWELL

ABC CONSTRUCTION CO (Continued) **1000108586**

Facility Address:	3120 NATIONAL AV
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-2544
UST Owner:	ABC CONSTRUCTION CO INC
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 105600 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	105600
Tank Type:	SINGLE WALL
Additional Id:	001
Capacity Gallons:	500
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1992-01-13 00:00:00
Year Installed:	Not reported
Pipe Type:	SINGLE WALL
Delivery System:	Not reported
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 105600 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	105600
Tank Type:	UNKNOWN
Additional Id:	002
Capacity Gallons:	500
UST Contents:	LEADED
Other Content Info:	LEADED
Reg Status:	REMOVED
Remove Close Date:	1992-01-13 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

Active Permits:

Facility Id:	105600
Update Date:	11/02/2012
Case Number:	8002-05-9
Name:	HYDRAULIC OIL/MOTOR OIL
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	ACUTE
Hazardous Categories 2:	Not reported

ABC CONSTRUCTION CO (Continued) **1000108586**

Facility Id: 105600
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 342 ORGANIC LIQUIDS W/METALS
Other Information: USED COOLANT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105600
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 221 WASTE OIL & MIXED OIL
Other Information: ENGINE OIL
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105600
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 888 USED OIL FILTERS
Other Information: FILTERS/ DRAINED
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105600
Update Date: 11/02/2012
Case Number: 9016-45-9
Name: NONYLPHENOXYPOLY (ETHYLENEOXY) ETHANOL
Other Information: ZEP ASPHALT RELEASE AGENT
Material Waste: Material
Hazardous Categories 1: ACUTE
Hazardous Categories 2: CHRONIC

Facility Id: 105600
Update Date: 11/02/2012
Case Number: 8032-32-4
Name: WASTE 213 HYDROCARBON SOLVENTS
Other Information: PARTS WASHER, NAPHTHA SOLVENT
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Facility Id: 105600
Update Date: 11/02/2012
Case Number: Not reported
Name: WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information: RAGS/USED ABSORBENTS/ CONTAMINATED
Material Waste: Waste
Hazardous Categories 1: Not reported
Hazardous Categories 2: Not reported

Violations Active Permits:
Facility Id: 105600
Update Date: 11/02/2012

ABC CONSTRUCTION CO (Continued) **1000108586**

Inspection Date: 05/12/2005
Violation Code: 6HV0210
Violation: DID NOT CLEAN SPILL TO FLOOR
Violation Citation: Failure to clean up hazardous waste off of floor surface. 66262.10b
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 03/02/2007
Violation Code: 6HV0228
Violation: CONTAINER NOT KEPT CLOSED
Violation Citation: Failed to keep container closed. CFR 265.173
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 03/02/2007
Violation Code: 6HV0135
Violation: MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation: Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 08/31/2011
Violation Code: 6HV0227
Violation: HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation: Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 11/18/2003
Violation Code: 6HV0401
Violation: TRAINING RECORDS UNAVAILABLE
Violation Citation: Personnel training records are not maintained to document compliance with requirements for current and former employees. CCR 66265.16(d)&(e)
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 03/02/2007
Violation Code: 6HV0226
Violation: HW NOT ACCUMULATED IN TANK/CONTAINER
Violation Citation: Did not accumulate waste in container or tank. 66262.34 (d)(2)
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 08/31/2011
Violation Code: 6HV0225
Violation: ACCUMULATED HW>180 OR >270 DAYS
Violation Citation: Accumulated waste too long (>180 or 270 days). 66262.34(d), CFR

ABC CONSTRUCTION CO (Continued) **1000108586**

262.34(e)&(f), &/or 25201(a) [>90 days for AHW waste]
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 05/12/2005
Violation Code: 6HV0202
Violation: WASTE CONTAINER W/O LABELS
Violation Citation: Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 05/12/2005
Violation Code: 6HV0215
Violation: OIL FILTERS IMPROPERLY MANAGED
Violation Citation: Used oil filters not properly drained, stored, or labeled prior to transport for the purpose of metal reclamation. CCR 66266.130
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 11/18/2003
Violation Code: 6HV0204
Violation: WASTE CONTAINER:IMPROPER MGMT
Violation Citation: Hazardous waste storage container is not handled or stored in a manner which will prevent leaks or rupture. CCR 66265.173
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 02/26/2010
Violation Code: 6HV0218
Violation: FILTERS:FUEL/OIL NOT LABELED OR CLOSED
Violation Citation: Failed to label &/or close drained used oil filters &/or used fuel filters. 25250.22 and 66266.130(c)(3)
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 03/02/2007
Violation Code: 6HV1013
Violation: HMBP NOT AVAILABLE FOR REVIEW
Violation Citation: Copy of HMBP not onsite for inspector's review. 25505(e)
Activity: ACTIVE

Facility Id: 105600
Update Date: 11/02/2012
Inspection Date: 03/02/2007
Violation Code: 6HV0218
Violation: FILTERS:FUEL/OIL NOT LABELED OR CLOSED
Violation Citation: Failed to label &/or close drained used oil filters &/or used fuel filters. 25250.22 and 66266.130(c)(3)
Activity: ACTIVE

ABC CONSTRUCTION CO (Continued) **1000108586**

Facility Id:	105600
Update Date:	11/02/2012
Inspection Date:	03/02/2007
Violation Code:	6HV0227
Violation:	HAZWASTE TANK/CONTAINER W/O LABEL/DATE
Violation Citation:	Failed to properly label/date hazardous waste container &/or tank. 66262.34(f)
Activity:	ACTIVE

Facility Id:	105600
Update Date:	11/02/2012
Inspection Date:	11/18/2003
Violation Code:	6HV0135
Violation:	MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation:	Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity:	ACTIVE

SAN DIEGO CO. SAM:

Case Number:	H05600-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Failed Integrity Test
Facility Status:	Closed Case
Date:	12/22/1988
Date Began:	10/17/1988

Case Number:	H05600-002
Agency:	DEH Site Assessment & Mitigation
Funding:	**LOP - State Fund**
Facility Type:	GW With No Beneficial Use Designation
Facility Status:	Closed Case
Date:	5/7/2008
Date Began:	5/18/1989

AA134 **IMS RECYCLING SERVICES INC** **FINDS** **1000129619**
East **1345 SOUTH 27TH ST** **CA NPDES** **N/A**
1/4-1/2 **SAN DIEGO, CA 92113** **CA HIST CORTESE**
0.497 mi. **CA SWRCY**
2624 ft. **Site 6 of 7 in cluster AA** **CA LUST**
CA SWEEPS UST
Relative: **CA San Diego Co. HMMD**
Higher **CA SAN DIEGO CO. SAM**
CA PROC

Actual:
34 ft.

FINDS:

Registry ID: 110002641749

Environmental Interest/Information System
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

IMS RECYCLING SERVICES INC (Continued) **1000129619**

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NPDES:

Npdes Number:	CAS000001
Facility Status:	Active
Agency Id:	0
Region:	9
Regulatory Measure Id:	218391
Order No:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	9 37I007237
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/22/1992
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	IMS Recycling Services
Discharge Address:	PO Box 13666
Discharge City:	San Diego
Discharge State:	California
Discharge Zip:	92170

HIST CORTESE:

Region:	CORTESE
Facility County Code:	37
Reg By:	LTNKA
Reg Id:	9UT1667

SWRCY:

Reg Id:	27488
Cert Id:	RC0702
Mailing Address:	P O Box 13666
Mailing City:	San Diego
Mailing State:	CA
Mailing Zip Code:	92170
Website:	Not reported
Phone Number:	(619) 231-2521
Grand Father:	N
Rural:	N
Operation Begin Date:	09/09/1987
Aluminium:	Y
Glass:	Y
Plastic:	Y
Bimetal:	Y
Agency:	N/A
Monday Hours Of Operation:	8:00 am - 4:30 pm
Tuesday Hours Of Operation:	8:00 am - 4:30 pm
Wednesday Hours Of Operation:	8:00 am - 4:30 pm
Thursday Hours Of Operation:	8:00 am - 4:30 pm

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Friday Hours Of Operation:	8:00 am - 4:30 pm
Saturday Hours Of Operation:	8:00 am - 4:30 pm
Sunday Hours Of Operation:	CLOSED
Cert Status:	Operational
Organization ID:	19486
Organization Name:	IMS Recycling Services Inc
Agency Reg ID:	N/A
Operation End Date:	Not reported

LUST:

Region:	STATE
Global Id:	T0607300482
Latitude:	32.692371
Longitude:	-117.135244
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/23/1991
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	9UT1667
LOC Case Number:	H21211-001
File Location:	Local Agency
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Waste Oil / Motor / Hydraulic / Lubricating
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Status History:

Global Id:	T0607300482
Status:	Open - Case Begin Date
Status Date:	03/13/1990
Global Id:	T0607300482
Status:	Completed - Case Closed
Status Date:	05/23/1991

Regulatory Activities:

Global Id:	T0607300482
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery
Global Id:	T0607300482
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported
Global Id:	T0607300482
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began
Global Id:	T0607300482
Action Type:	Other
Date:	01/01/1950

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Action: Leak Stopped

LUST REG 9:

Region:	9
Status:	Case Closed
Case Number:	9UT1667
Local Case:	H21211-001
Substance:	Waste Oil
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Local Agency:	San Diego
How Found:	Tank Closure
How Stopped:	Close Tank
Source:	Unknown
Cause:	Unknown
Lead Agency:	Local Agency
Case Type:	Soil only
Date Found:	03/13/1990
Date Stopped:	03/13/1990
Confirm Date:	04/12/1990
Submit Workplan:	Not reported
Prelim Assess:	/ /
Desc Pollution:	Not reported
Remed Plan:	/ /
Remed Action:	Not reported
Began Monitor:	Not reported
Release Date:	04/11/1990
Enforce Date:	Not reported
Closed Date:	5/20/91
Enforce Type:	Not reported
Pilot Program:	LOP
Basin Number:	908.22
GW Depth:	Not reported
Beneficial Use:	Not reported
NPDES Number:	Not reported
Priority:	Low priority. Priority ranking can change over time.
File Dispn:	File discarded, case closed

Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

SWEEPS UST:

Status:	Not reported
Comp Number:	21211
Number:	Not reported
Board Of Equalization:	44-022486
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021211-000001
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	5
Status:	Not reported
Comp Number:	21211
Number:	Not reported
Board Of Equalization:	44-022486
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021211-000002
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	21211
Number:	Not reported
Board Of Equalization:	44-022486
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021211-000003
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	OTHER
Number Of Tanks:	Not reported
Status:	Not reported
Comp Number:	21211
Number:	Not reported
Board Of Equalization:	44-022486
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021211-000004
Tank Status:	Not reported
Capacity:	2000
Active Date:	Not reported
Tank Use:	OIL
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported
Status:	Not reported

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Comp Number:	21211
Number:	Not reported
Board Of Equalization:	44-022486
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	37-000-021211-000005
Tank Status:	Not reported
Capacity:	1500
Active Date:	Not reported
Tank Use:	PETROLEUM
STG:	PRODUCT
Content:	Not reported
Number Of Tanks:	Not reported

SAN DIEGO CO. HMMD:

Facility Id:	121211
Business Type:	6HK70
EPA Id Number:	CAD029136058
APN:	538-822-21-00
Last HMMD Inspection:	04/19/2012
Permit Status:	OPEN
Permit Expiration:	03/31/2013
Facility Owner:	IMS RECYCLING, INC.
Facility Address:	1345 S 27TH ST
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-3715
UST Owner:	INDUSTRIAL METALS & SALVAGE CO
Handle Regulated Hazmat:	Y
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 121211 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	121211
Tank Type:	SINGLE WALL
Additional Id:	1
Capacity Gallons:	6000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1990-04-23 00:00:00
Year Installed:	Not reported
Pipe Type:	SINGLE WALL
Delivery System:	SUCTION
Monitor Code:	10
UST Monitor Method:	SW TANK DW PRESSURE PIPE W/POS SHUTOFF LLD W/DAILY RECONCILE OR WEEKLY GAUGE: TNK TEST ANN, PIPE TEST ANN 0.1 GAL/HR OR MO 0.2 GAL/HR
UST Name:	UNDERGROUND TANK 121211 T002
Last Update:	2012-11-02 14:17:38

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Permit Number:	121211
Tank Type:	UNKNOWN
Additional Id:	00002
Capacity Gallons:	6000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1990-03-13 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 121211 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	121211
Tank Type:	UNKNOWN
Additional Id:	00003
Capacity Gallons:	6000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1990-03-13 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 121211 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	121211
Tank Type:	UNKNOWN
Additional Id:	00004
Capacity Gallons:	2000
UST Contents:	Not reported
Other Content Info:	MOTOR OIL
Reg Status:	REMOVED
Remove Close Date:	1990-03-13 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.
UST Name:	UNDERGROUND TANK 121211 T005
Last Update:	2012-11-02 14:17:38
Permit Number:	121211
Tank Type:	UNKNOWN
Additional Id:	00005
Capacity Gallons:	1500
UST Contents:	Not reported
Other Content Info:	WASTE OIL

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Reg Status:	REMOVED
Remove Close Date:	1990-03-13 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	Not reported
Monitor Code:	90
UST Monitor Method:	NO MONITORING ALTERNATIVE SELECTED. VERIFY AND ENTER MONITORING ALTERNATIVE DURING INSPECTION.

Active Permits:

Facility Id:	121211
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 223 UNSPEC OIL CONTAINING WASTE
Other Information:	USED ABSORBENTS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	121211
Update Date:	11/02/2012
Case Number:	74-86-2
Name:	ACETYLENE GAS
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Facility Id:	121211
Update Date:	11/02/2012
Case Number:	7782-44-7
Name:	OXYGEN
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Facility Id:	121211
Update Date:	11/02/2012
Case Number:	74-98-6
Name:	PROPANE
Other Information:	Not reported
Material Waste:	Material
Hazardous Categories 1:	PRESSURE RELEASE
Hazardous Categories 2:	Not reported

Facility Id:	121211
Update Date:	11/02/2012
Case Number:	Not reported
Name:	WASTE 221 WASTE OIL & MIXED OIL
Other Information:	H20 SOLUBLE OIL
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Facility Id:	121211
Update Date:	11/02/2012

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Case Number:	Not reported
Name:	WASTE 860 UNIVERSAL WASTE CRTS/LAMPS/BATTERIES/ETC
Other Information:	CRTS
Material Waste:	Waste
Hazardous Categories 1:	Not reported
Hazardous Categories 2:	Not reported

Violations Active Permits:

Facility Id:	121211
Update Date:	11/02/2012
Inspection Date:	09/25/2007
Violation Code:	6HV0147
Violation:	UW RECORDS NOT KEPT ONSITE FOR 3 YEARS
Violation Citation:	Failed to keep universal waste record for 3 years for offsite shipment. SQH:66273.19(b)&(c)(2); LQH:66273.39(b)&(c)(2)
Activity:	ACTIVE

Facility Id:	121211
Update Date:	11/02/2012
Inspection Date:	11/18/2005
Violation Code:	6HV0202
Violation:	WASTE CONTAINER W/O LABELS
Violation Citation:	Hazardous waste containers &/or tanks are missing labels, accumulation date and/or are improperly labeled. CCR 66262.34(a)(2); 66262.34(a)(3) & 66262.34(f)
Activity:	ACTIVE

Facility Id:	121211
Update Date:	11/02/2012
Inspection Date:	11/06/2003
Violation Code:	6HV0213
Violation:	CONTAINER INCOMPATIBLE W/ WASTE
Violation Citation:	Hazardous waste storage container is not lined/compatible with the hazardous waste to be stored. CCR 66265.172
Activity:	ACTIVE

Facility Id:	121211
Update Date:	11/02/2012
Inspection Date:	09/25/2007
Violation Code:	6HV0138
Violation:	NO TSDF SIGNED MANIFEST ONSITE
Violation Citation:	Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity:	ACTIVE

Facility Id:	121211
Update Date:	11/02/2012
Inspection Date:	09/25/2007
Violation Code:	6HV0226
Violation:	HW NOT ACCUMULATED IN TANK/CONTAINER
Violation Citation:	Did not accumulate waste in container or tank. 66262.34 (d)(2)
Activity:	ACTIVE

Facility Id:	121211
Update Date:	11/02/2012
Inspection Date:	09/25/2007

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Violation Code: 6HV0135
Violation: MANIFESTS/RECEIPTS FOR 3 YEARS NOT ONSIT
Violation Citation: Hazardous waste manifests/receipts for 3 years are not maintained onsite to document proper disposal of hazardous waste. CCR 66262.40(a) & 25160.2(b)(3)
Activity: ACTIVE

Facility Id: 121211
Update Date: 11/02/2012
Inspection Date: 07/08/2010
Violation Code: 6HV0138
Violation: NO TSDF SIGNED MANIFEST ONSITE
Violation Citation: Generator has not maintained the required signed copy of the hazardous waste manifest from the TSD facility on site for review. CCR 66262.40(a)
Activity: ACTIVE

Facility Id: 121211
Update Date: 11/02/2012
Inspection Date: 09/25/2007
Violation Code: 6HV1009
Violation: HMBP: INADEQUATE SITE MAP
Violation Citation: Business Plan does not have a site map which provides sufficient or complete information for emergency response agencies. HSC 25509(a)(5) & 25505(a)(2)
Activity: ACTIVE

Facility Id: 121211
Update Date: 11/02/2012
Inspection Date: 09/25/2007
Violation Code: 6HV0228
Violation: CONTAINER NOT KEPT CLOSED
Violation Citation: Failed to keep container closed. CFR 265.173
Activity: ACTIVE

Facility Id: 121211
Update Date: 11/02/2012
Inspection Date: 11/18/2005
Violation Code: 6HV0402
Violation: TRAINING PROGRAM NOT ADEQUATE
Violation Citation: Personnel training is not adequate to ensure compliance with hazardous waste regulations. CCR 66265.16(a)&(b)
Activity: ACTIVE

SAN DIEGO CO. SAM:
Case Number: H21211-001
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: Soils Only
Facility Status: Closed Case
Date: 5/23/1991
Date Began: 3/13/1990

PROC:
Reg Id: 27488

IMS RECYCLING SERVICES INC (Continued) **1000129619**

Cert Id:	PR0024
Cert Status:	Operational
Organization Id:	19486
Organization Name:	IMS Recycling Services Inc
Mailing Address:	P O Box 13666
Mailing City:	San Diego
Mailing State:	CA
Mailing Zip Code:	92170
Website:	Not reported
Phone Number:	(619) 231-2521
Grand Father:	N/A
Rural:	N/A
Operation Begin Date:	09/09/1987
Operation End Date:	Not reported
Aluminium:	Not reported
Glass:	Not reported
Plastic:	Not reported
Bimetal:	Not reported
Agency:	N/A
Agency Id:	N/A
Monday Hours Of Operation:	8:00 am - 4:30 pm
Tuesday Hours Of Operation:	8:00 am - 4:30 pm
Wednesday Hours Of Operation:	8:00 am - 4:30 pm
Thursday Hours Of Operation:	8:00 am - 4:30 pm
Friday Hours Of Operation:	8:00 am - 4:30 pm
Saturday Hours Of Operation:	8:00 am - 4:30 pm
Sunday Hours Of Operation:	CLOSED

AA135 **INDUSTRIAL METALS & SALVAGE CO.** **CERC-NFRAP 1015732712**
East **1345 SOUTH 27TH ST.** **RCRA-SQG CAD029136058**
1/4-1/2 **SAN DIEGO, CA 92113**
0.497 mi.
2624 ft. **Site 7 of 7 in cluster AA**

Relative:
Higher

Actual:
34 ft.

CERC-NFRAP:

Site ID:	0904768
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Contact Details:

Contact Sequence ID:	13290401.00000
Person ID:	13003854.00000
Contact Sequence ID:	13295996.00000
Person ID:	13003858.00000
Contact Sequence ID:	13301854.00000
Person ID:	13004003.00000

CERCLIS-NFRAP Assessment History:

Action:	DISCOVERY
Date Started:	/ /
Date Completed:	02/08/93
Priority Level:	Not reported
Action:	ARCHIVE SITE

INDUSTRIAL METALS & SALVAGE CO. (Continued) **1015732712**

Date Started: / /
Date Completed: 08/31/93
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 08/31/93
Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: IMS RECYCLING SERVICES INC
Facility address: 1345 SOUTH 27TH ST
SAN DIEGO, CA 92113
EPA ID: CAD029136058
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: Not reported
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Land type: Facility is not located on Indian land. Additional information is not known.
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No

INDUSTRIAL METALS & SALVAGE CO. (Continued) **1015732712**

Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 02/16/1982
Site name: IMS RECYCLING SERVICES INC
Classification: Large Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 11/18/2008
Date achieved compliance: 03/02/2009
Violation lead agency: State
Enforcement action: SINGLE SITE CA/FO
Enforcement action date: 09/21/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: 6000
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 11/18/2008
Date achieved compliance: 03/02/2009
Violation lead agency: State
Enforcement action: LETTER OF INTENT TO INITIATE ENFORCEMENT ACTION
Enforcement action date: 09/03/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 11/18/2008
Date achieved compliance: 03/02/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/02/2009
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

INDUSTRIAL METALS & SALVAGE CO. (Continued) **1015732712**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 12/18/2001
Date achieved compliance: 12/20/2001
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 12/19/2001
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/02/2009
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/18/2008
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/18/2008
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: State Statute or Regulation
Date achieved compliance: 03/02/2009
Evaluation lead agency: State

Evaluation date: 12/18/2001
Evaluation: FOCUSED COMPLIANCE INSPECTION
Area of violation: Generators - General
Date achieved compliance: 12/20/2001
Evaluation lead agency: State

136
NE
1/2-1
0.562 mi.
2970 ft.

Relative:
Higher

Actual:
90 ft.

BURBANK ELEMENTARY EXPANSION **CA SCH** **S102805282**
2146 JULIAN AVENUE **CA ENVIROSTOR** **N/A**
SAN DIEGO, CA 92113

SCH:

Facility ID: 37880002
Site Type: School Cleanup
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 0.76
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP

BURBANK ELEMENTARY EXPANSION (Continued) **S102805282**

Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404262
Assembly:	80
Senate:	40
Special Program Status:	Not reported
Status:	Certified
Status Date:	10/27/2005
Restricted Use:	NO
Funding:	School District
Latitude:	32.70002
Longitude:	-117.1388
APN:	NONE SPECIFIED
Past Use:	RESIDENTIAL AREA
Potential COC:	Lead
Confirmed COC:	Lead, , Lead
Potential Description:	SOIL
Alias Name:	BURBANK ELEMENTARY EXPANSION
Alias Type:	Alternate Name
Alias Name:	SAN DIEGO CITY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	SAN DIEGO CITY USD-BURBANK ELEM EXP
Alias Type:	Alternate Name
Alias Name:	110021416920
Alias Type:	EPA (FRS #)
Alias Name:	404262
Alias Type:	Project Code (Site Code)
Alias Name:	37880002
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Certification
Completed Date:	10/27/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	05/03/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	09/14/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1 Addendum
Completed Date:	06/16/2004
Comments:	Not reported

BURBANK ELEMENTARY EXPANSION (Continued) **S102805282**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/12/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/28/2005
Comments: RAW approved for implementation

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Public Participation
Completed Date: 06/12/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 01/04/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/12/2001
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

ENVIROSTOR:
Facility ID: 37880002
Status: Certified
Status Date: 10/27/2005
Site Code: 404262
Site Type: School Cleanup
Site Type Detailed: School
Acres: 0.76
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 80
Senate: 40
Special Program: Not reported

BURBANK ELEMENTARY EXPANSION (Continued) **S102805282**

Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 32.70002
Longitude: -117.1388
APN: NONE SPECIFIED
Past Use: RESIDENTIAL AREA
Potential COC: Lead Lead
Confirmed COC: Lead Lead
Potential Description: SOIL
Alias Name: BURBANK ELEMENTARY EXPANSION
Alias Type: Alternate Name
Alias Name: SAN DIEGO CITY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: SAN DIEGO CITY USD-BURBANK ELEM EXP
Alias Type: Alternate Name
Alias Name: 110021416920
Alias Type: EPA (FRS #)
Alias Name: 404262
Alias Type: Project Code (Site Code)
Alias Name: 37880002
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 10/27/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 05/03/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 09/14/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1 Addendum
Completed Date: 06/16/2004
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 10/12/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 06/28/2005

BURBANK ELEMENTARY EXPANSION (Continued) **S102805282**

Comments:	RAW approved for implementation
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	* Public Participation
Completed Date:	06/12/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	01/04/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	06/12/2001
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

137
ESE
1/2-1
0.565 mi.
2983 ft.

NATIONAL STEEL & SHIPBUILDING CO.
HARBOR DRIVE & 28TH STREET
SAN DIEGO, CA 92113

CA ENVIROSTOR **S110494092**
N/A

Relative:
Lower

Actual:
13 ft.

ENVIROSTOR:

Facility ID:	71002266
Status:	Active
Status Date:	12/23/1998
Site Code:	400702
Site Type:	Tiered Permit
Site Type Detailed:	Tiered Permit
Acres:	50
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Johnson Abraham
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	80
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	32.68943
Longitude:	-117.1360

NATIONAL STEEL & SHIPBUILDING CO. (Continued) **S110494092**

APN: NONE SPECIFIED
Past Use: SHIPYARD - SHIP BUILDING/REPAIR
Potential COC: Polychlorinated biphenyls (PCBs Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE Polychlorinated biphenyls (PCBs Trichloroethylene (TCE
Potential Description: SOIL
Alias Name: CAD009158932
Alias Type: EPA Identification Number
Alias Name: 110014337413
Alias Type: EPA (FRS #)
Alias Name: 400702
Alias Type: Project Code (Site Code)
Alias Name: 71002266
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 06/28/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 12/31/1998
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 08/03/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 04/18/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 04/07/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Report
Completed Date: 11/02/2011
Comments: Further soil gas sampling is needed at the Site and the NASSCO agreed with DTSC's request.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Supplemental Site Investigation Workplan
Completed Date: 02/07/2012

NATIONAL STEEL & SHIPBUILDING CO. (Continued) **S110494092**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Supplemental Site Investigation Workplan
Completed Date:	04/17/2013
Comments:	DTSC conditionally approved the Tech Memo.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase I Verification
Completed Date:	08/03/2001
Comments:	Inspection report sent on 8/3/2001
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Consent Agreement
Completed Date:	12/23/1998
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	01/11/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	11/30/2012
Comments:	Not reported
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Remedy Constructed
Future Due Date:	2017
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Corrective Measures Proposal Approval
Future Due Date:	2015
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Removal Action Completion Report
Future Due Date:	2016
Future Area Name:	PROJECT WIDE
Future Sub Area Name:	Not reported
Future Document Type:	Supplemental Site Investigation Report
Future Due Date:	2014
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AB138
NNW
1/2-1
0.638 mi.
3368 ft.
1025 SIGSBEE ST.
SAN DIEGO, CA 92113
Site 1 of 4 in cluster AB

CA Notify 65 **S100178402**
N/A

Relative:
Higher

Actual:
37 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92113-1017

AB139
NNW
1/2-1
0.644 mi.
3400 ft.
1702 NATIONAL AVE
SAN DIEGO, CA 92113
Site 2 of 4 in cluster AB

CA Notify 65 **S100178362**
N/A

Relative:
Higher

Actual:
40 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92113-1011

140
NNW
1/2-1
0.680 mi.
3592 ft.
1640 NEWTON AVE
SAN DIEGO, CA 92113

CA Notify 65 **S100178098**
N/A

Relative:
Higher

Actual:
23 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	92113-1013

AB141
NNW
1/2-1
0.683 mi.
3607 ft.
CENTER CITY TOWING
1668 NATIONAL AV
SAN DIEGO, CA 92113
Site 3 of 4 in cluster AB

CA SLIC **S106059798**
CA San Diego Co. HMMD **N/A**
CA ENVIROSTOR
CA SAN DIEGO CO. SAM

Relative:
Higher

Actual:
30 ft.

SLIC:

Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/15/2008
Global Id:	SLT19739268
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H01553-002
Latitude:	32.703766
Longitude:	-117.148918

CENTER CITY TOWING (Continued) **S106059798**

Case Type:	Cleanup Program Site
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	101553
Business Type:	Not reported
EPA Id Number:	Not reported
APN:	DEH-101553
Last HMMD Inspection:	08/23/1995
Permit Status:	INAC
Permit Expiration:	Not reported
Facility Owner:	RAUL JOSE JAAQUEZ
Facility Address:	1668 NATIONAL AVE
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92113-1009
UST Owner:	Not reported
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Y
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

ENVIROSTOR:

Facility ID:	37280047
Status:	Refer: RCRA
Status Date:	05/10/1995
Site Code:	400238
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Cypress
Assembly:	80
Senate:	40
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	32.70374
Longitude:	-117.1489
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED

CENTER CITY TOWING (Continued) **S106059798**

Potential COC: * UNSPECIFIED ORGANIC LIQUID MIXTURE
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: PACIFIC TREATMENT CORP
Alias Type: Alternate Name
Alias Name: PACIFIC TREATMENT CORP #2
Alias Type: Alternate Name
Alias Name: CAD098240062
Alias Type: EPA Identification Number
Alias Name: 110002665697
Alias Type: EPA (FRS #)
Alias Name: 400238
Alias Type: Project Code (Site Code)
Alias Name: 37280047
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 02/22/1983
Comments: FACILITY IDENTIFIED ID VIA CALIF. WASTE MGMT. BD. PRINTOUT

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 02/09/1995
Comments: NFA FOR SITE MITIGATION OPERATIONS, THIS IS A RCRA FACILITY.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 06/05/1987
Comments: SITE SCREENING DONE STAINS OF UNKNOWN SUBSTANCE NEXT TO CEMENT WASH PAD

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SAN DIEGO CO. SAM:
Case Number: H01553-002
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: AX
Facility Status: Closed Case
Date: 2/15/2008
Date Began: Not reported

Case Number: H01553-001
Agency: CA Department of Toxic Substance Control

CENTER CITY TOWING (Continued) **S106059798**

Funding:	**Non Billable**
Facility Type:	Soils Only
Facility Status:	Closed Case
Date:	5/17/1991
Date Began:	5/17/1991

AB142 **PACIFIC TREATMENT** **RCRA-TSDF** **1000249989**
NNW **1668 NATIONAL AVENUE** **CERC-NFRAP** **CAD098240062**
1/2-1 **SAN DIEGO, CA 92113** **CORRACTS**
0.683 mi. **RCRA-SQG**
3607 ft. **Site 4 of 4 in cluster AB** **FINDS**
CA HIST UST
Relative: **CA HWP**
Higher

Actual: RCRA-TSDF:
30 ft.

Date form received by agency:	09/01/1996
Facility name:	PACIFIC TREATMENT
Facility address:	1668 NATIONAL AVENUE SAN DIEGO, CA 92113
EPA ID:	CAD098240062
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	Not reported
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste

Owner/Operator Summary:

Owner/operator name:	PACIFIC TREATMENT CORPORATION
Owner/operator address:	PO BOX 13626 SAN DIEGO, CA 92113
Owner/operator country:	Not reported
Owner/operator telephone:	(619) 233-0424
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	PACIFIC TREATMENT
Owner/operator address:	1668 NATIONAL AVE SAN DIEGO, CA 92113
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No

PACIFIC TREATMENT (Continued) **1000249989**

Transporter of hazardous waste:	Yes
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	12/05/1980
Site name:	PACIFIC TREATMENT
Classification:	Large Quantity Generator

Corrective Action Summary:

Event date:	09/09/1991
Event:	CA029ST
Event date:	09/09/1991
Event:	CA049PA
Event date:	09/09/1991
Event:	CA Prioritization, Facility or area was assigned a low corrective action priority.
Event date:	02/11/1992
Event:	Stabilization Measures Evaluation,This facility is not amenable to stabilization activity at the present time for reasons other than 1- it appears to be technically infeasible or inappropriate (NF) or 2- there is a lack of technical information (IN). Reasons for this conclusion may be the status of closure at the facility, the degree of risk, timing considerations, the status of corrective action work at the facility, or other administrative considerations.
Event date:	02/11/1992
Event:	CA Prioritization, Facility or area was assigned a low corrective action priority.

Facility Has Received Notices of Violations:

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	09/08/1994
Date achieved compliance:	09/08/1999
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

PACIFIC TREATMENT (Continued) **1000249989**

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	11/30/1993
Date achieved compliance:	09/08/1994
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	06/08/1993
Date achieved compliance:	11/30/1993
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	11/06/1992
Date achieved compliance:	06/08/1993
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated:	FR - 262.10-12.A
Area of violation:	Generators - General
Date violation determined:	04/07/1992
Date achieved compliance:	11/06/1992
Violation lead agency:	State
Enforcement action:	Not reported
Enforcement action date:	Not reported
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	Not reported
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Regulation violated: FR - 262.10-12.A

PACIFIC TREATMENT (Continued) **1000249989**

Area of violation: Generators - General
Date violation determined: 10/28/1991
Date achieved compliance: 04/07/1992
Violation lead agency: State
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 09/08/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/08/1999
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 11/30/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/08/1994
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 06/08/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/30/1993
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 11/06/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 06/08/1993
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 04/07/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/06/1992
Evaluation lead agency: State Contractor/Grantee

Evaluation date: 10/28/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/07/1992
Evaluation lead agency: State Contractor/Grantee

CERC-NFRAP:
Site ID: 0903904
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

PACIFIC TREATMENT (Continued) **1000249989**

CERCLIS-NFRAP Site Contact Details:
Contact Sequence ID: 13289850.00000
Person ID: 13003854.00000

Contact Sequence ID: 13295445.00000
Person ID: 13003858.00000

Contact Sequence ID: 13301303.00000
Person ID: 13004003.00000

Program Priority:
Description: RCRA Deferral Audit

Description: RCRA Deferral - Lead Confirmed

Description: RCRA Deferral - Further Superfund Assessment

CERCLIS-NFRAP Assessment History:
Action: PRELIMINARY ASSESSMENT
Date Started: / /
Date Completed: 09/12/91
Priority Level: Deferred to RCRA (Subtitle C)

Action: DISCOVERY
Date Started: / /
Date Completed: 05/21/91
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: / /
Date Completed: 01/23/96
Priority Level: Not reported

CORRACTS:

EPA ID: CAD098240062
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19910909
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: CAD098240062
EPA Region: 09
Area Name: ENTIRE FACILITY
Actual Date: 19920211
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): Not reported
Original schedule date: Not reported
Schedule end date: Not reported

PACIFIC TREATMENT (Continued) **1000249989**

FINDS:

Registry ID: 110002665697

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HIST UST:

Region:	STATE
Facility ID:	00000004259
Facility Type:	Other
Other Type:	TSDF FACILITY
Total Tanks:	0004
Contact Name:	GREG H. WIDDERS
Telephone:	6192392024
Owner Name:	PACIFIC TREATMENT CORPORATION
Owner Address:	P.O. BOX 13626___.
Owner City,St,Zip:	SAN DIEGO, CA 92113
Tank Num:	001
Container Num:	1
Year Installed:	1982
Tank Capacity:	00002100
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Tank Construction:	1/4 inches
Leak Detection:	Visual
Tank Num:	002
Container Num:	2
Year Installed:	1982
Tank Capacity:	00000050
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Tank Construction:	4 inches
Leak Detection:	Visual
Tank Num:	003
Container Num:	3
Year Installed:	1983
Tank Capacity:	00000800
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Tank Construction:	1/4 inches
Leak Detection:	Visual
Tank Num:	004
Container Num:	4
Year Installed:	1981
Tank Capacity:	00000025

PACIFIC TREATMENT (Continued) **1000249989**

Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: 1/16 inches
Leak Detection: Visual

HWP:
EPA Id: CAD098240062
Cleanup Status: CLOSED
Latitude: 32.70351
Longitude: -117.1489
Facility Type: Historical - Non-Operating
Facility Size: Not reported
Team: Not reported
Supervisor: Not reported
Site Code: 400238
Assembly District: 80
Senate District: 40
Public Information Officer: Not reported

Activities:
EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - CALL-IN LETTER ISSUED
Actual Date: 11/06/1985

EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - APPLICATION PART B RECEIVED
Actual Date: 03/31/1988

EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - APPLICATION PART A RECEIVED
Actual Date: 01/19/1987

EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST ACKNOWLEDGED
Actual Date: 08/17/1991

EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Unit Names: Not reported
Event Description: New Operating Permit - FINAL PERMIT - WITHDRAWAL REQUEST RECEIVED
Actual Date: 03/27/1990

Closure:
EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: Closure Final - ISSUE CLOSURE VERIFICATION
Actual Date: 09/17/1992

PACIFIC TREATMENT (Continued) **1000249989**

EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Unit Names: CONTAIN1, OTHRTRT1, TANKSTR1, TANKTRT1
Event Description: Closure Final - RECEIVE CLOSURE CERTIFICATION
Actual Date: 08/10/1992

Alias:
EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Alias Type: Alternate Name
Alias: TRIAD MARINE & INDUSTRIAL CLEANING CORP.

EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Alias Type: Project Code (Site Code)
Alias: 400238

EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Alias Type: Envirostor ID Number
Alias: 37280047

EPA Id: CAD098240062
Facility Type: Historical - Non-Operating
Alias Type: FRS
Alias: 110002665697

Maintenance:
EPA Id: CAD098240062
Title: Pacific Treatment Facility #2 Closure Report
Document Type: Certification Documents from Facility
Received Date: 09/17/1992

143
North
1/2-1
0.751 mi.
3965 ft.

SDUSD - MAINTENANCE
1826 IRVING AV
SAN DIEGO, CA 92113

CA LUST **S106059787**
CA SLIC **N/A**
CA San Diego Co. HMMD
CA SAN DIEGO CO. SAM
CA ENVIROSTOR

Relative:
Higher

Actual:
62 ft.

LUST:
Region: STATE
Global Id: T0607302739
Latitude: 32.7049468
Longitude: -117.1433315
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/28/2008
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: TS
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: 9UT432
LOC Case Number: H01530-002
File Location: Local Agency
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: Gasoline
Site History: Not reported

SDUSD - MAINTENANCE (Continued) **S106059787**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607302739
Contact Type:	Regional Board Caseworker
Contact Name:	SUE J. PEASE
Organization Name:	SAN DIEGO RWQCB (REGION 9)
Address:	2375 NORTHSIDE DRIVE, SUITE 100
City:	SAN DIEGO
Email:	spease@waterboards.ca.gov
Phone Number:	6195215895

Global Id:	T0607302739
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261
City:	San Diego
Email:	teresa.sherman@sdcounty.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0607302739
Status:	Open - Case Begin Date
Status Date:	03/28/1989

Global Id:	T0607302739
Status:	Completed - Case Closed
Status Date:	04/28/2008

Regulatory Activities:

Global Id:	T0607302739
Action Type:	ENFORCEMENT
Date:	03/28/1989
Action:	Notice of Responsibility

Global Id:	T0607302739
Action Type:	Other
Date:	01/01/1950
Action:	Leak Discovery

Global Id:	T0607302739
Action Type:	Other
Date:	01/01/1950
Action:	Leak Reported

Global Id:	T0607302739
Action Type:	Other
Date:	01/01/1950
Action:	Leak Began

Global Id:	T0607302739
Action Type:	Other
Date:	01/01/1950
Action:	Leak Stopped

SDUSD - MAINTENANCE (Continued) **S106059787**

Region:	STATE
Global Id:	T0607302301
Latitude:	32.7049168911357
Longitude:	-117.142418324947
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/05/2011
Lead Agency:	SAN DIEGO COUNTY LOP
Case Worker:	TS
Local Agency:	SAN DIEGO COUNTY LOP
RB Case Number:	9UT3532
LOC Case Number:	H01530-003
File Location:	Local Agency
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	This case was originally opened after gasoline hydrocarbons were detected in soil samples collected during the removal of two underground storage tanks (UST) in August 1997. In 1998, the case was expanded to include an earlier release case H01530-002 from a UST that was removed in October of 1989, and case H01530-002 was administratively closed. A monitoring well (MW1) was installed in the former tank pit in 2002. Less than one-tenth of a foot of free product has been intermittently detected in this well since it was installed, and subsequently removed by bailing. Three additional wells were installed in 2008 and several soil borings have been drilled at the site. Free product has not been detected in any other wells. The soil borings indicated that the free product is limited in extent. The depth to groundwater is approximately 44 feet below ground surface. The concentrations of dissolved phase gasoline constituents outside of the tank pit area have generally been below the maximum contaminant levels with the exception of benzene. In March 2009, benzene was detected in groundwater at 1.05 ug/l in well MW3. The groundwater is designated as non-beneficial use. The nearest surface water body is San Diego Bay, which is greater than 4000 feet away from the site. A Corrective Action Plan was prepared for the site in which the consultant proposed natural attenuation for remediation of the free product. The consultant estimated that 1,667 cubic yards of contaminated soil are present at the site to a depth of approximately 50 feet below ground surface, covering a surface area of approximately 900 square feet. The consultant stated that the contaminated soil does not pose a threat to utilities that are buried at shallow depths (less than 20 feet). A soil vapor survey was conducted that indicated that the soil did not pose an excess cancer risk for vapor intrusion onsite or to neighboring residential properties. The consultant concluded that the free product was limited in extent, had been removed to the extent practical, and did not pose a threat to either human health, safety or the environment. The consultant requested no further action for the site and DEH concurred.

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0607302301
Contact Type:	Local Agency Caseworker
Contact Name:	TERESA SHERMAN
Organization Name:	SAN DIEGO COUNTY LOP
Address:	P.O. Box 129261

SDUSD - MAINTENANCE (Continued) **S106059787**

City: San Diego
Email: teresa.sherman@sdcounty.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0607302301
Status: Open - Site Assessment
Status Date: 11/19/2009

Global Id: T0607302301
Status: Completed - Case Closed
Status Date: 07/05/2011

Global Id: T0607302301
Status: Open - Site Assessment
Status Date: 08/28/1997

Global Id: T0607302301
Status: Open - Case Begin Date
Status Date: 08/15/1997

Regulatory Activities:
Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 04/16/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 07/05/2011
Action: Closure/No Further Action Letter

Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 10/06/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 09/04/1997
Action: Notice of Responsibility

Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 08/25/2008
Action: Technical Correspondence / Assistance / Other - #H01530-003-808SARR

Global Id: T0607302301
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 07/13/2009
Action: Letter - Notice

SDUSD - MAINTENANCE (Continued) **S106059787**

Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 11/19/2009
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 07/22/2010
Action: Technical Correspondence / Assistance / Other

Global Id: T0607302301
Action Type: RESPONSE
Date: 06/05/2010
Action: CAP/RAP - Feasibility Study Report

Global Id: T0607302301
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607302301
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Global Id: T0607302301
Action Type: ENFORCEMENT
Date: 08/15/2003
Action: Notice of Violation

Global Id: T0607302301
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

SLIC:
Region: STATE
Facility Status: **Open - Site Assessment**
Status Date: 10/28/2008
Global Id: T10000000450
Lead Agency: SAN DIEGO COUNTY LOP
Lead Agency Case Number: H01530-004
Latitude: 32.7016088
Longitude: -117.138611
Case Type: Cleanup Program Site
Case Worker: TS
Local Agency: SAN DIEGO COUNTY LOP
RB Case Number: Not reported
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Region: STATE

SDUSD - MAINTENANCE (Continued) **S106059787**

Facility Status:	**Completed - Case Closed**
Status Date:	04/05/1988
Global Id:	T0608149012
Lead Agency:	SAN DIEGO COUNTY LOP
Lead Agency Case Number:	H01530-001
Latitude:	32.7048601
Longitude:	-117.143253
Case Type:	Cleanup Program Site
Case Worker:	Not reported
Local Agency:	Not reported
RB Case Number:	Not reported
File Location:	Local Agency
Potential Media Affected:	Under Investigation
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SAN DIEGO CO. HMMD:

Facility Id:	101530
Business Type:	6HK29
EPA Id Number:	CAD981453236
APN:	535-640-16-00
Last HMMD Inspection:	05/16/1997
Permit Status:	INAC
Permit Expiration:	09/18/1997
Facility Owner:	SD CITY SCHOOLS
Facility Address:	4100 NORMAL ST / D ADAMS
Facility City:	SAN DIEGO
Facility State:	CA
Facility Zip:	92103-2653
UST Owner:	SAN DIEGO UNIFIED SCHOOL DIST
Handle Regulated Hazmat:	Not reported
Own Or Operate UST:	Not reported
Subject To APSA:	Not reported
Generate Haz Waste:	Not reported
Treat Haz Waste:	Not reported
Generate Medical Waste:	Not reported

UST:

UST Name:	UNDERGROUND TANK 101530 T001
Last Update:	2012-11-02 14:17:38
Permit Number:	101530
Tank Type:	SINGLE WALL
Additional Id:	1
Capacity Gallons:	8500
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1989-10-23 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

SDUSD - MAINTENANCE (Continued) **S106059787**

UST Name:	UNDERGROUND TANK 101530 T002
Last Update:	2012-11-02 14:17:38
Permit Number:	101530
Tank Type:	SINGLE WALL WITH EXTERIOR MEMB
Additional Id:	2
Capacity Gallons:	5000
UST Contents:	REGULAR UNLEADED
Other Content Info:	REGULAR UNLEADED
Reg Status:	REMOVED
Remove Close Date:	1997-08-15 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 101530 T003
Last Update:	2012-11-02 14:17:38
Permit Number:	101530
Tank Type:	SINGLE WALL WITH EXTERIOR MEMB
Additional Id:	3
Capacity Gallons:	5000
UST Contents:	DIESEL
Other Content Info:	DIESEL
Reg Status:	REMOVED
Remove Close Date:	1997-08-15 00:00:00
Year Installed:	Not reported
Pipe Type:	Not reported
Delivery System:	SUCTION
Monitor Code:	05
UST Monitor Method:	SW TANK DW PIPE W/ POS SHUTOFF-ALARM ON LLD W/ SIRS:SIR ANALY MONTHLY, TANK TEST BIENNIALLY, PIPE TEST ANN 0.1 G/HR OR MO 0.2 G/HR

UST Name:	UNDERGROUND TANK 101530 T004
Last Update:	2012-11-02 14:17:38
Permit Number:	101530
Tank Type:	SINGLE WALL
Additional Id:	0004
Capacity Gallons:	1000
UST Contents:	Not reported
Other Content Info:	GASOLINE(TYPE UNKNOWN)
Reg Status:	REMOVED
Remove Close Date:	1998-02-24 00:00:00
Year Installed:	Not reported
Pipe Type:	UNKNOWN
Delivery System:	Not reported
Monitor Code:	99
UST Monitor Method:	OTHER - BLIND REMARK REQUIRED

SAN DIEGO CO. SAM:

Case Number:	H01530-001
Agency:	DEH Site Assessment & Mitigation
Funding:	**Non Billable**
Facility Type:	Failed Integrity Test
Facility Status:	Closed Case

SDUSD - MAINTENANCE (Continued) **S106059787**

Date: 4/5/1988
Date Began: 8/14/1986

Case Number: H01530-002
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Closed Case
Date: 4/28/2008
Date Began: 3/28/1989

Case Number: H01530-003
Agency: DEH Site Assessment & Mitigation
Funding: **LOP - State Fund**
Facility Type: GW With No Beneficial Use Designation
Facility Status: Preliminary Assessment
Date: 8/27/1997
Date Began: 8/15/1997

Case Number: H01530-004
Agency: DEH Site Assessment & Mitigation
Funding: **Private - VAP**
Facility Type: OX
Facility Status: Preliminary Assessment
Date: 10/1/2008
Date Began: 10/1/2008

ENVIROSTOR:
Facility ID: 60000197
Status: Refer: RWQCB
Status Date: 12/04/2005
Site Code: 401264
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 3.45
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Safouh Sayed
Supervisor: Emad Yemut
Division Branch: Cleanup Cypress
Assembly: 80
Senate: 40
Special Program: EPA - Target Site Investigation
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 32.70488
Longitude: -117.1434
APN: NONE SPECIFIED
Past Use: FUEL - VEHICLE STORAGE/ REFUELING, TRANSPORTATION - WAREHOUSING
Potential COC: Benzene TPH-gas Toluene Xylenes Benzene Toluene Xylenes Asbestos Containing Materials (ACM
Confirmed COC: Toluene TPH-gas Benzene Xylenes Toluene Benzene Xylenes Asbestos Containing Materials (ACM
Potential Description: OTH, OTH, SOIL, SV
Alias Name: 401264

SDUSD - MAINTENANCE (Continued) **S106059787**

Alias Type: Project Code (Site Code)
Alias Name: 60000197
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported
Completed Sub Area Name: Not reported
Completed Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

144
NNW
1/2-1
0.784 mi.
4141 ft.

GRAYBILL TERMINAL(FORMER) **CA ENVIROSTOR** **S106797717**
1551 NATIONAL AVENUE **N/A**
SAN DIEGO, CA 92113

Relative:
Higher

Actual:
22 ft.

ENVIROSTOR:
Facility ID: 37510139
Status: Refer: 1248 Local Agency
Status Date: 03/18/2004
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Referred - Not Assigned
Division Branch: Cleanup Cypress
Assembly: 79
Senate: 40
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 0
Longitude: 0
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: 37510139
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: Not reported

GRAYBILL TERMINAL(FORMER) (Continued) **S106797717**

Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

145
NNE
1/2-1
0.874 mi.
4617 ft.

GIFFORD'S BARRELS **CA ENVIROSTOR** **S111842209**
2606 COMMERCIAL STREET **N/A**
SAN DIEGO, CA 92113

Relative:
Higher

Actual:
74 ft.

ENVIROSTOR:

Facility ID:	37500033
Status:	Refer: Other Agency
Status Date:	04/25/1995
Site Code:	Not reported
Site Type:	Historical
Site Type Detailed:	* Historical
Acres:	Not reported
NPL:	NO
Regulatory Agencies:	NONE SPECIFIED
Lead Agency:	NONE SPECIFIED
Program Manager:	Not reported
Supervisor:	* Mmonroy
Division Branch:	Cleanup Cypress
Assembly:	80
Senate:	40
Special Program:	* CERC2
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	Not reported
Latitude:	32.70527
Longitude:	-117.1375
APN:	NONE SPECIFIED
Past Use:	NONE SPECIFIED
Potential COC:	* HYDROCARBON SOLVENTS * AQUEOUS SOLUTION WITH METALS * CONTAMINATED SOIL * ACID SOLUTION 2>PH WITH METALS * UNSPECIFIED AQUEOUS SOLUTION * WASTE OIL & MIXED OIL * OTHER PESTICIDE CONTAINERS, 30 GALLONS OR MORE
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	CAD982359531
Alias Type:	EPA Identification Number
Alias Name:	37500033
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE

GIFFORD'S BARRELS (Continued) **S111842209**

Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 04/25/1995
Comments: NFA for DTSC.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 10/27/1994
Comments: Database verification program confirmed the status.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Report
Completed Date: 05/31/1988
Comments: Preliminary Assessment (PA) Done: Further investigation will be done by County Health. PA submitted to EPA: EPA recommendation is Screening Site Inspection based on Gifford's history of violations, observ- ed staining, and elevated heavy metal concentrations in the soil. Potential for direct contact hazards and migration of contaminants.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/26/1986
Comments: SITE SCREENING DONE

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: * Discovery
Completed Date: 01/13/1983
Comments: FACILITY IDENTIFIED VIA ROUTINE SURVEILLANCE

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

146
NNW
1/2-1
0.881 mi.
4653 ft.

STUDIO 15
70 15TH STREET
SAN DIEGO, CA 92101

CA DEED **S108407259**
CA VCP **N/A**
CA SAN DIEGO CO. SAM
CA ENVIROSTOR

Relative:
Higher

Actual:
24 ft.

DEED:
Area: PROJECT WIDE
Sub Area: Not reported
Site Type: VOLUNTARY CLEANUP
Status: CERTIFIED / OPERATION & MAINTENANCE
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): 06/29/2009

STUDIO 15 (Continued) **S108407259**

EDR Link ID: 60000490

VCP:

Facility ID:	60000490
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	0.64
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Maryam Tasnif-Abbasi
Supervisor:	Emad Yemut
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	401329
Assembly:	78
Senate:	39
Special Programs Code:	CLRRA Liability Immunity (AB 389)
Status:	Certified / Operation & Maintenance
Status Date:	08/06/2013
Restricted Use:	YES
Funding:	Responsible Party
Lat/Long:	32.70595 / -117.1507
APN:	535-621-01
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, MANUFACTURING - CHEMICALS, MANUFACTURING - METAL, RETAIL - VEHICLES, TRANSPORTATION - WAREHOUSING
	Not reported
Potential COC:	30013, 30022, 3002502, 30027, 30136, 30156, 30195
Confirmed COC:	30013,, ,30022,30027,30136,30156,30195,30013,3002502-NO
Potential Description:	SOIL
Alias Name:	535-621-01
Alias Type:	APN
Alias Name:	110033617995
Alias Type:	EPA (FRS #)
Alias Name:	401329
Alias Type:	Project Code (Site Code)
Alias Name:	60000490
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	12/13/2006
Comments:	The workplan was approved by DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	AB 389 Response Plan
Completed Date:	06/28/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	05/01/2007

STUDIO 15 (Continued) **S108407259**

Comments:	Fact sheet was approved and mailed out on 4/30/07
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/04/2007
Comments:	DTSC has completed its review and no written comments are needed at this time.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	06/04/2007
Comments:	There were no comments or concerns expressed by the public regarding this Addendum. The task is completed, no additional tasks are needed. Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Remedial Action Completion Report
Completed Date:	12/31/2007
Comments:	RsP for Soil was approved, with outstanding items needed in order to fill criteria of "appropriate care" for the site under the AB 389/CLRRA Agreement.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan
Completed Date:	05/29/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Plan Amendment
Completed Date:	01/25/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	09/07/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	02/28/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Operations and Maintenance Report
Completed Date:	05/09/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

STUDIO 15 (Continued) **S108407259**

Completed Document Type: Operations and Maintenance Report
Completed Date: 09/05/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 06/28/2012
Comments: All response actions, with the exception of ongoing O&M have been completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Land Use Restriction
Completed Date: 06/29/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: California Land Reuse and Revitalization Agreement
Completed Date: 11/20/2006
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/03/2008
Comments: This letter projects the number of hours DTSC may expend on the project during the 2008 calender year. This is just an estimate and could change based on project needs.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SAN DIEGO CO. SAM:
Case Number: H39697-001
Agency: CA Department of Toxic Substance Control
Funding: **Non Billable**
Facility Type: Soils Only
Facility Status: Preliminary Assessment
Date: 10/12/2006
Date Began: Not reported

ENVIROSTOR:
Facility ID: 60000490
Status: Certified / Operation & Maintenance
Status Date: 08/06/2013
Site Code: 401329
Site Type: Voluntary Cleanup

STUDIO 15 (Continued) **S108407259**

Site Type Detailed:	Voluntary Cleanup
Acres:	0.64
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Maryam Tasnif-Abbasi
Supervisor:	Emad Yemut
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	78
Senate:	39
Special Program:	CLRRA Liability Immunity (AB 389)
Restricted Use:	YES
Site Mgmt Req:	NONE SPECIFIED
Funding:	Responsible Party
Latitude:	32.70595
Longitude:	-117.1507
APN:	535-621-01
Past Use:	FUEL - VEHICLE STORAGE/ REFUELING, MANUFACTURING - CHEMICALS, MANUFACTURING - METAL, RETAIL - VEHICLES, TRANSPORTATION - WAREHOUSING Not reported
Potential COC:	Lead Tetrachloroethylene (PCE TPH-MOTOR OIL Trichloroethylene (TCE Chloroform Copper and compounds 1,2-Dichloroethylene (cis
Confirmed COC:	Lead Tetrachloroethylene (PCE Trichloroethylene (TCE Chloroform Copper and compounds 1,2-Dichloroethylene (cis Lead 3002502-NO
Potential Description:	SOIL
Alias Name:	535-621-01
Alias Type:	APN
Alias Name:	110033617995
Alias Type:	EPA (FRS #)
Alias Name:	401329
Alias Type:	Project Code (Site Code)
Alias Name:	60000490
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	12/13/2006
Comments:	The workplan was approved by DTSC.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	AB 389 Response Plan
Completed Date:	06/28/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Fact Sheets
Completed Date:	05/01/2007
Comments:	Fact sheet was approved and mailed out on 4/30/07
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Other Report
Completed Date:	05/04/2007
Comments:	DTSC has completed its review and no written comments are needed at

STUDIO 15 (Continued) **S108407259**

this time.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 06/04/2007
Comments: There were no comments or concerns expressed by the public regarding this Addendum. The task is completed, no additional tasks are needed.
Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Completion Report
Completed Date: 12/31/2007
Comments: RsP for Soil was approved, with outstanding items needed in order to fill criteria of "appropriate care" for the site under the AB 389/CLRRA Agreement.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 05/29/2009
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan Amendment
Completed Date: 01/25/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/07/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 02/28/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 05/09/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/05/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification

STUDIO 15 (Continued) **S108407259**

Completed Date:	06/28/2012
Comments:	All response actions, with the exception of ongoing O&M have been completed.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Land Use Restriction
Completed Date:	06/29/2009
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	California Land Reuse and Revitalization Agreement
Completed Date:	11/20/2006
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	01/03/2008
Comments:	This letter projects the number of hours DTSC may expend on the project during the 2008 calender year. This is just an estimate and could change based on project needs.
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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147 **28TH AND WEBSTER AVENUE** **CA Notify 65** **S100178070**
NE **N/A**
1/2-1 **SAN DIEGO, CA**
0.921 mi.
4861 ft.

Relative:
Higher

Actual:
79 ft.

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported
Board File Number:	Not reported
Facility Type:	Not reported
Discharge Date:	Not reported
Incident Description:	Not reported

AC148 **USS BROOKE FFG1 PIER 1** **CA CHMIRS** **S100178493**
ESE **32ND ST NAVAL STATION** **CA Notify 65** **N/A**
1/2-1 **SAN DIEGO, CA 92102**
0.961 mi.
5074 ft. **Site 1 of 2 in cluster AC**

Relative:
Lower

Actual:
16 ft.

CHMIRS:

OES Incident Number:	97-4699	
OES notification:	11/25/1997	
OES Date:	Not reported	
OES Time:	Not reported	
Incident Date:	Not reported	
Date Completed:	**Not reported**	
Property Use:	Not reported	
Agency Id Number:	Not reported	
Agency Incident Number:	Not reported	
Time Notified:	Not reported	
Time Completed:	Not reported	
Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA/DOT/PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Comments:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	Yes	
Waterway:	SAN DIEGO BAY	
Spill Site:	Not reported	
Cleanup By:	NO	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Not reported	
Other:	Not reported	
Date/Time:	Not reported	
Year:	1997	
Agency:	USN	
Incident Date:	11/25/199712:00:00 AM	
Admin Agency:	San Diego County Health Services Dept.	
Amount:	Not reported	
Contained:	No	
Site Type:	Ship/Harbor/Port	
E Date:	Not reported	
Substance:	OIL	
Quantity Released:	Not reported	
BBLS:	0	

USS BROOKE FFG1 PIER 1 (Continued) **S100178493**

Cups:	0
CUFT:	0
Gallons:	3-5
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	SUBSTANCE NOTICED NEAR SHIP COMING FROM UNDERNEATH. SUBSTANCE APPEARS TO BE BREAKING UP.

OES Incident Number:	02-4536	
OES notification:	08/21/2002	
OES Date:	Not reported	
OES Time:	Not reported	
Incident Date:	Not reported	
Date Completed:	**Not reported**	
Property Use:	Not reported	
Agency Id Number:	Not reported	
Agency Incident Number:	Not reported	
Time Notified:	Not reported	
Time Completed:	Not reported	
Surrounding Area:	Not reported	
Estimated Temperature:	Not reported	
Property Management:	Not reported	
More Than Two Substances Involved?:		Not reported
Resp Agncy Personel # Of Decontaminated:		Not reported
Responding Agency Personel # Of Injuries:		Not reported
Responding Agency Personel # Of Fatalities:		Not reported
Others Number Of Decontaminated:		Not reported
Others Number Of Injuries:		Not reported
Others Number Of Fatalities:		Not reported
Vehicle Make/year:	Not reported	
Vehicle License Number:	Not reported	
Vehicle State:	Not reported	
Vehicle Id Number:	Not reported	
CA/DOT/PUC/ICC Number:	Not reported	
Company Name:	Not reported	
Reporting Officer Name/ID:	Not reported	
Report Date:	Not reported	
Comments:	Not reported	
Facility Telephone:	Not reported	
Waterway Involved:	Yes	
Waterway:	San Diego Bay	
Spill Site:	Not reported	
Cleanup By:	Unknown	
Containment:	Not reported	
What Happened:	Not reported	
Type:	Not reported	
Measure:	Not reported	

USS BROOKE FFG1 PIER 1 (Continued) **S100178493**

Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	NRC
Incident Date:	8/21/200212:00:00 AM
Admin Agency:	San Diego County Health Services Dept.
Amount:	Not reported
Contained:	Unknown
Site Type:	Ship/Harbor/Port
E Date:	Not reported
Substance:	Sheen
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	0.000000
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Per the NRC report, caller is reporting an unknown sheen sighting.

OES Incident Number:	06-0599
OES notification:	01/26/2006
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported

USS BROOKE FFG1 PIER 1 (Continued) **S100178493**

Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	n/a
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2006
Agency:	USCG
Incident Date:	1/26/2006 12:00:00 AM
Admin Agency:	San Diego County Health Services Dept.
Amount:	Not reported
Contained:	Unknown
Site Type:	Ship/Harbor/Port
E Date:	Not reported
Substance:	Sewage
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	0.000000
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	0
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	Per caller, a boat discharged sewage from a boat
OES Incident Number:	97-1437
OES notification:	04/10/1997
OES Date:	Not reported
OES Time:	Not reported
Incident Date:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported

USS BROOKE FFG1 PIER 1 (Continued) **S100178493**

Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA/DOT/PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Comments:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	Yes
Waterway:	San Diego Bay
Spill Site:	Not reported
Cleanup By:	Reporting Party
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	1997
Agency:	Navy Public Works Center
Incident Date:	4/10/199712:00:00 AM
Admin Agency:	San Diego County Health Services Dept.
Amount:	Not reported
Contained:	Yes
Site Type:	Ship/Harbor/Port
E Date:	Not reported
Substance:	Oil
Quantity Released:	Not reported
BBLS:	0
Cups:	0
CUFT:	0
Gallons:	0.000000
Grams:	0
Pounds:	0
Liters:	0
Ounces:	0
Pints:	0
Quarts:	1
Sheen:	0
Tons:	0
Unknown:	0
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
Description:	A seal leaked oil out onto the engine

Notify 65:

Date Reported:	Not reported
Staff Initials:	Not reported

USS BROOKE FFG1 PIER 1 (Continued) **S100178493**

Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92102

AC149 **24TH ST MARINE TERMINAL** **CA Notify 65** **S100179334**
ESE **FOOT OF 24TH ST** **N/A**
1/2-1 **SAN DIEGO, CA**
0.967 mi.
5105 ft. **Site 2 of 2 in cluster AC**

Relative:
Higher

Actual:
19 ft.

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: Not reported

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150 **MARATHON LAND & CATTLE** **CA HIST CORTESE** **S100232868**
NNE **2682 IMPERIAL AV** **CA LUST** **N/A**
1/2-1 **SAN DIEGO, CA 92102** **CA Notify 65**
0.983 mi.
5192 ft.

Relative:
Higher

Actual:
78 ft.

HIST CORTESE:
Region: CORTESE
Facility County Code: 37
Reg By: LTNKA
Reg Id: 9UT976

LUST:
Region: STATE
Global Id: T0607303210
Latitude: 32.7063849
Longitude: -117.1363318
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 10/14/1993
Lead Agency: SAN DIEGO COUNTY LOP
Case Worker: Not reported
Local Agency: Not reported
RB Case Number: 9UT976
LOC Case Number: H26511-001
File Location: Local Agency
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Status History:
Global Id: T0607303210
Status: Completed - Case Closed
Status Date: 10/14/1993

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MARATHON LAND & CATTLE (Continued) **S100232868**

Global Id: T0607303210
Status: Open - Case Begin Date
Status Date: 06/17/1988

Regulatory Activities:
Global Id: T0607303210
Action Type: ENFORCEMENT
Date: 06/17/1988
Action: Notice of Responsibility

Global Id: T0607303210
Action Type: Other
Date: 01/01/1950
Action: Leak Discovery

Global Id: T0607303210
Action Type: Other
Date: 01/01/1950
Action: Leak Reported

Global Id: T0607303210
Action Type: Other
Date: 01/01/1950
Action: Leak Stopped

Global Id: T0607303210
Action Type: Other
Date: 01/01/1950
Action: Leak Began

Notify 65:
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Incident Description: 92102-4002

Count: 20 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SAN DIEGO	S108407139	MTS-PORT DISTRICT SITE CLOSED	08TH AV & HARBOR DR	92101	CA SAN DIEGO CO. SAM
SAN DIEGO	S108406975	CAMPBELL INDUSTRIES	08TH AV & HARBOR DR	92101	CA SAN DIEGO CO. SAM
SAN DIEGO	1008372041	BAE SYSTEMS NASSCO	28TH AND HARBOR DRIVE	92113	RCRA-LQG
SAN DIEGO	S108226114	BAY FRONT STREET/CROSBY STREET REL	BAY FRONT STREET	92101	CA SLIC
SAN DIEGO	A100345537	BAE SYSTEMS	2205 E BELT ST/FOOT OF SAMPSON	92113	CA AST
SAN DIEGO	U004186646	SOUTHWEST MARINE INC	FOOT OF W SAMPSON ST	92113	CA UST
SAN DIEGO	1001231335	ELECTROSOLVE SVCS	FOOT OF SAMPSON ST	92113	RCRA-SQG
SAN DIEGO	S109280757	CABRILLO POWER II LLC DIVISION ST	3200 HARBOR DR DIVSION GT	92113	CA EMI
SAN DIEGO	S106931790	SAN DIEGO PIPELINE CO	2295 E HARBOR DR A	92113	CA SWEEPS UST
SAN DIEGO	S106929786	NASSCO	2800 H HARBOR DR 6	92113	CA SWEEPS UST
SAN DIEGO	S106905767	LINDBERGH FIELD PLANT - BLDG 75	HARBOR DRIVE	92101	CA SLIC
SAN DIEGO	A100345574	CABRILLO POWER II, LLC	3200 HARBOR DR	92113	CA AST
SAN DIEGO	1007569193	CONTINENTAL MARITIME OF SAN DIEGO	910 HARBOR DR	92101	RCRA NonGen / NLR
SAN DIEGO	1001481008	SHIP M V ZENITH 8918136	1140 N HARBOR DR B ST 8918136	92101	RCRA-SQG, FINDS
SAN DIEGO	1001231397	MV RHAPSODY OF THE SEAS	1140 N HARBOR DR (B ST PIER)	92101	RCRA-SQG
SAN DIEGO	S108407253	SOUTHWEST MARINE	MAIN ST	92113	CA SAN DIEGO CO. SAM
SAN DIEGO	S105026137	SOUTHWEST MARINE INC.	22012399 MAIN ST	92113	CA HIST CORTESE
SAN DIEGO	S106519116	NAVISTAR INTERNATIONAL TRANS. CORP	2200 PACIFIC COAST HWY	92101	CA SLIC
SAN DIEGO	1004675676	SHELL SERVICE STATION - 135897	2008 PACIFIC HWY/GRAPE	92101	RCRA-SQG
SAN DIEGO	S108407255	SOUTHWEST MARINE INC	SAMPSON ST (FOOT OF)	92113	CA SAN DIEGO CO. SAM

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 01/28/2014
Number of Days to Update: 78

Source: EPA
Telephone: N/A
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

Federal CERCLIS list

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing
A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 07/08/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 45

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned
Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 11/11/2013
Date Made Active in Reports: 02/13/2014
Number of Days to Update: 94

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/19/2014
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 116

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/19/2014
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 116

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 18

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/30/2013
Date Data Arrived at EDR: 10/01/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 66

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 07/03/2014
Next Scheduled EDR Contact: 07/14/2014
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 06/05/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 33

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 06/05/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 33

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/20/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 2

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/18/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC: Statewide SLIC Cases
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 25

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/20/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 73

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 03/01/2013
Date Data Arrived at EDR: 03/01/2013
Date Made Active in Reports: 04/12/2013
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/13/2014
Date Data Arrived at EDR: 08/15/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 7

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/28/2014
Date Data Arrived at EDR: 05/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 47

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 184

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/14/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 61

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/20/2014
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 08/04/2014
Date Data Arrived at EDR: 08/05/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 17

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

State and tribal registered storage tank lists

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 20

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 07/31/2014
Next Scheduled EDR Contact: 09/29/2014
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 08/13/2014
Date Data Arrived at EDR: 08/15/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 7

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 08/14/2014
Date Data Arrived at EDR: 08/15/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 7

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/20/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 08/15/2014
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 08/04/2014
Date Data Arrived at EDR: 08/05/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 17

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 05/01/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 47

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 07/25/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 25

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/01/2013
Date Data Arrived at EDR: 05/01/2013
Date Made Active in Reports: 01/27/2014
Number of Days to Update: 271

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/22/2014
Next Scheduled EDR Contact: 08/11/2014
Data Release Frequency: Semi-Annually

FEMA UST: *Underground Storage Tank Listing*

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 07/01/2014
Date Made Active in Reports: 08/15/2014
Number of Days to Update: 45

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 06/05/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 33

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 25

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 07/03/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/16/2014
Date Data Arrived at EDR: 06/17/2014
Date Made Active in Reports: 07/11/2014
Number of Days to Update: 24
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 02/20/2014
Date Made Active in Reports: 03/27/2014
Number of Days to Update: 35
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/03/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Quarterly

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 06/05/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 33

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 03/20/2014
Number of Days to Update: 20

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/29/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 25

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 09/03/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: No Update Planned

Local Lists of Registered Storage Tanks

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/23/2009
Date Data Arrived at EDR: 09/23/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/05/2014
Date Data Arrived at EDR: 05/06/2014
Date Made Active in Reports: 05/19/2014
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

DEED: Deed Restriction Listing
Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 28

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 04/01/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 105

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/26/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 09/15/2014
Number of Days to Update: 49

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing
The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 22

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 07/30/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 25

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/11/2014
Date Data Arrived at EDR: 03/13/2014
Date Made Active in Reports: 04/09/2014
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/06/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 02/28/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 55

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/24/2014
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 31

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/30/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/09/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 01/30/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 07/15/2014
Number of Days to Update: 132

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/04/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Semi-Annually

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/31/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 44

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/29/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

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Date of Government Version: 12/31/2006
Date Data Arrived at EDR: 09/29/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 64

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems
Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 05/06/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 10/09/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2013
Date Data Arrived at EDR: 07/17/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 107

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/22/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 11/01/2013
Number of Days to Update: 91

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2014
Date Data Arrived at EDR: 07/10/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 18

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/10/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/18/2013
Date Data Arrived at EDR: 02/27/2014
Date Made Active in Reports: 03/12/2014
Number of Days to Update: 13

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 05/23/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/29/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Biennially

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/15/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/20/2014
Date Made Active in Reports: 05/28/2014
Number of Days to Update: 8

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/18/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS); and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 07/01/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 27

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 10/21/1993
Date Data Arrived at EDR: 11/01/1993
Date Made Active in Reports: 11/19/1993
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/17/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: No Update Planned

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/28/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 08/21/2014
Number of Days to Update: 49

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Annually

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 38

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 07/16/2013
Date Made Active in Reports: 08/26/2013
Number of Days to Update: 41

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 03/25/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 34

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/26/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Varies

INDIAN RESERV: Indian Reservations
This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing
The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: N/A

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 04/15/2013
Date Data Arrived at EDR: 07/03/2013
Date Made Active in Reports: 09/13/2013
Number of Days to Update: 72

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 06/04/2014
Date Data Arrived at EDR: 06/12/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Varies

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 11/11/2011
Date Data Arrived at EDR: 05/18/2012
Date Made Active in Reports: 05/25/2012
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/15/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Varies

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/15/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/27/2014
Date Data Arrived at EDR: 05/28/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 40

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/14/2014
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/15/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Quarterly

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/23/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 26

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 03/14/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 47
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 09/10/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/16/2014
Date Data Arrived at EDR: 06/17/2014
Date Made Active in Reports: 07/10/2014
Number of Days to Update: 23
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/01/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 05/05/2014
Date Data Arrived at EDR: 05/14/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 8
Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/23/2013
Date Data Arrived at EDR: 11/06/2013
Date Made Active in Reports: 12/06/2013
Number of Days to Update: 30
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/25/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

US FIN ASSUR: Financial Assurance Information
All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/19/2014
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 38
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/20/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 2

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/25/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 09/15/2014
Number of Days to Update: 49

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/30/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/25/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 23

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/30/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 07/23/2014
Date Data Arrived at EDR: 06/26/2014
Date Made Active in Reports: 07/25/2014
Number of Days to Update: 29

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/02/2013
Date Made Active in Reports: 08/22/2013
Number of Days to Update: 20

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 07/02/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 07/30/2014
Number of Days to Update: 27

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/26/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 24

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 21

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/05/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 05/05/2014
Date Data Arrived at EDR: 05/06/2014
Date Made Active in Reports: 05/13/2014
Number of Days to Update: 7

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/30/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 05/29/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 38

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 08/05/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/19/2014
Number of Days to Update: 35

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/11/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 26

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 07/28/2014
Date Data Arrived at EDR: 07/30/2014
Date Made Active in Reports: 09/15/2014
Number of Days to Update: 47

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 08/31/2010
Date Data Arrived at EDR: 09/01/2010
Date Made Active in Reports: 09/30/2010
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/28/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 06/20/2014
Number of Days to Update: 21

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 07/23/2014
Date Data Arrived at EDR: 07/25/2014
Date Made Active in Reports: 08/22/2014
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 06/19/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/31/2014
Date Data Arrived at EDR: 06/06/2014
Date Made Active in Reports: 07/17/2014
Number of Days to Update: 41

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/21/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/21/2014
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/19/2014
Number of Days to Update: 29

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/21/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 03/05/2009
Date Data Arrived at EDR: 03/10/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 29

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/07/2014
Date Data Arrived at EDR: 02/25/2014
Date Made Active in Reports: 03/25/2014
Number of Days to Update: 28

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/16/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 07/23/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 23

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 07/28/2014
Date Data Arrived at EDR: 07/28/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 23

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/13/2014
Date Data Arrived at EDR: 03/27/2014
Date Made Active in Reports: 04/28/2014
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/25/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 06/27/2014
Number of Days to Update: 16

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 07/02/2014
Date Data Arrived at EDR: 07/07/2014
Date Made Active in Reports: 08/18/2014
Number of Days to Update: 42

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 07/02/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 05/27/2014
Date Data Arrived at EDR: 05/29/2014
Date Made Active in Reports: 06/24/2014
Number of Days to Update: 26

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 06/27/2014
Number of Days to Update: 14

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 09/02/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 28

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/28/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 11/06/2013
Date Data Arrived at EDR: 11/07/2013
Date Made Active in Reports: 12/04/2013
Number of Days to Update: 27

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 09/16/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 05/22/2014
Number of Days to Update: 7

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/15/2014
Date Made Active in Reports: 05/28/2014
Number of Days to Update: 13

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 08/01/2014
Date Data Arrived at EDR: 08/12/2014
Date Made Active in Reports: 08/20/2014
Number of Days to Update: 8

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/10/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 29

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/08/2014
Date Data Arrived at EDR: 07/11/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 17

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/23/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/08/2014
Date Data Arrived at EDR: 07/11/2014
Date Made Active in Reports: 08/18/2014
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/23/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/06/2014
Date Data Arrived at EDR: 04/08/2014
Date Made Active in Reports: 04/29/2014
Number of Days to Update: 21

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/11/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/05/2014
Date Data Arrived at EDR: 07/17/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 11

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/08/2014
Next Scheduled EDR Contact: 10/20/2014
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/30/2014
Date Data Arrived at EDR: 05/30/2014
Date Made Active in Reports: 07/07/2014
Number of Days to Update: 38

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2013
Date Data Arrived at EDR: 11/19/2013
Date Made Active in Reports: 12/31/2013
Number of Days to Update: 42

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/22/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/27/2014
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/20/2014
Date Data Arrived at EDR: 06/23/2014
Date Made Active in Reports: 07/11/2014
Number of Days to Update: 18

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/19/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/11/2014
Date Data Arrived at EDR: 06/13/2014
Date Made Active in Reports: 07/09/2014
Number of Days to Update: 26

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/20/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 04/03/2014
Date Data Arrived at EDR: 04/04/2014
Date Made Active in Reports: 05/01/2014
Number of Days to Update: 27

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/16/2014
Date Data Arrived at EDR: 06/19/2014
Date Made Active in Reports: 07/10/2014
Number of Days to Update: 21

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 06/02/2014
Date Data Arrived at EDR: 06/03/2014
Date Made Active in Reports: 06/23/2014
Number of Days to Update: 20

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/22/2014
Next Scheduled EDR Contact: 09/15/2014
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/02/2014
Next Scheduled EDR Contact: 12/15/2014
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/12/2014
Date Data Arrived at EDR: 05/19/2014
Date Made Active in Reports: 05/28/2014
Number of Days to Update: 9

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/24/2014
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 05/27/2014
Date Data Arrived at EDR: 05/28/2014
Date Made Active in Reports: 06/20/2014
Number of Days to Update: 23

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/10/2014
Date Data Arrived at EDR: 06/12/2014
Date Made Active in Reports: 06/20/2014
Number of Days to Update: 8

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/19/2014
Date Data Arrived at EDR: 06/26/2014
Date Made Active in Reports: 07/25/2014
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/19/2014
Date Data Arrived at EDR: 06/26/2014
Date Made Active in Reports: 07/25/2014
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 01/02/2014
Date Made Active in Reports: 02/11/2014
Number of Days to Update: 40

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/26/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 07/03/2014
Date Made Active in Reports: 07/28/2014
Number of Days to Update: 25

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/26/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 06/09/2014
Date Data Arrived at EDR: 06/11/2014
Date Made Active in Reports: 07/17/2014
Number of Days to Update: 36

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/08/2014
Next Scheduled EDR Contact: 12/22/2014
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 05/16/2014
Date Data Arrived at EDR: 05/16/2014
Date Made Active in Reports: 06/13/2014
Number of Days to Update: 28

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 08/08/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 04/28/2014
Date Data Arrived at EDR: 05/20/2014
Date Made Active in Reports: 05/27/2014
Number of Days to Update: 7

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/14/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/01/2014
Next Scheduled EDR Contact: 10/13/2014
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/13/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 06/26/2014
Date Data Arrived at EDR: 07/31/2014
Date Made Active in Reports: 09/15/2014
Number of Days to Update: 46

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/28/2014
Next Scheduled EDR Contact: 11/10/2014
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/27/2014
Date Data Arrived at EDR: 06/17/2014
Date Made Active in Reports: 07/11/2014
Number of Days to Update: 24

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/17/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2014
Date Data Arrived at EDR: 07/07/2014
Date Made Active in Reports: 08/18/2014
Number of Days to Update: 42

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/19/2014
Next Scheduled EDR Contact: 10/06/2014
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/19/2014
Date Data Arrived at EDR: 05/22/2014
Date Made Active in Reports: 06/19/2014
Number of Days to Update: 28

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/31/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/19/2014
Next Scheduled EDR Contact: 12/01/2014
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 07/19/2012
Date Made Active in Reports: 08/28/2012
Number of Days to Update: 40

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/17/2014
Next Scheduled EDR Contact: 10/27/2014
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2014
Date Data Arrived at EDR: 05/07/2014
Date Made Active in Reports: 06/10/2014
Number of Days to Update: 34

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/07/2014
Next Scheduled EDR Contact: 11/17/2014
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/21/2014
Date Made Active in Reports: 08/25/2014
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/18/2014
Next Scheduled EDR Contact: 11/03/2014
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/15/2014
Date Made Active in Reports: 08/13/2014
Number of Days to Update: 29

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/26/2014
Next Scheduled EDR Contact: 12/08/2014
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/20/2014
Date Made Active in Reports: 08/07/2014
Number of Days to Update: 48

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/15/2014
Next Scheduled EDR Contact: 12/29/2014
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK ® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

400 EAST BELT ST
400 EAST BELT ST
SAN DIEGO, CA 92113

TARGET PROPERTY COORDINATES

Latitude (North):	32.6933 - 32° 41' 35.88"
Longitude (West):	117.145 - 117° 8' 42.00"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	486407.7
UTM Y (Meters):	3617106.2
Elevation:	18 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	32117-F2 POINT LOMA, CA
Most Recent Revision:	1994

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

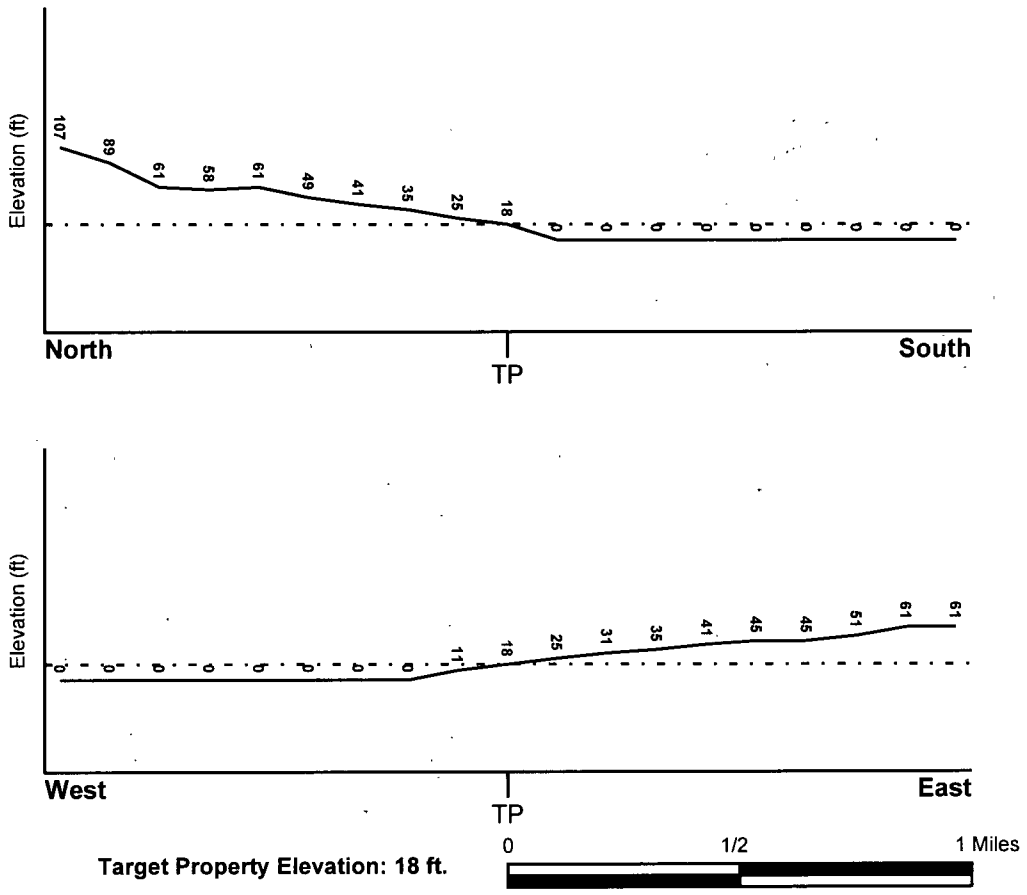
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
SAN DIEGO, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06073C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
POINT LOMA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Location Relative to TP:	1 - 2 Miles ESE
Site Name:	SAN DIEGO NAVAL STATION
Site EPA ID Number:	CA4170090233
Groundwater Flow Direction:	TOWARD AND INTO SAN DIEGO BAY AND PALETA CREEK.
Measured Depth to Water:	approximately 10 feet.
Hydraulic Connection:	The near-surface aquifer is not hydraulically connected to the deeper, usable aquifer. The near-surface aquifer is impacted by salt-water intrusion.
Sole Source Aquifer:	No information about a sole source aquifer is available
Data Quality:	Information based on site-specific subsurface investigations is documented in the CERCLIS investigation report(s)

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
1	1/8 - 1/4 Mile NNW	WSW
A2	1/4 - 1/2 Mile ENE	Not Reported
A3	1/4 - 1/2 Mile ENE	Not Reported
4	1/4 - 1/2 Mile North	S
5	1/4 - 1/2 Mile NNW	ENE
6	1/4 - 1/2 Mile NE	Not Reported
7	1/4 - 1/2 Mile North	NW
B8	1/4 - 1/2 Mile East	SW
9	1/2 - 1 Mile ENE	SW
B10	1/2 - 1 Mile East	WSW
11	1/2 - 1 Mile East	SSW
12	1/2 - 1 Mile ENE	Not Reported
13	1/2 - 1 Mile NNW	SW

For additional site information, refer to Physical Setting Source Map Findings.

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tp *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

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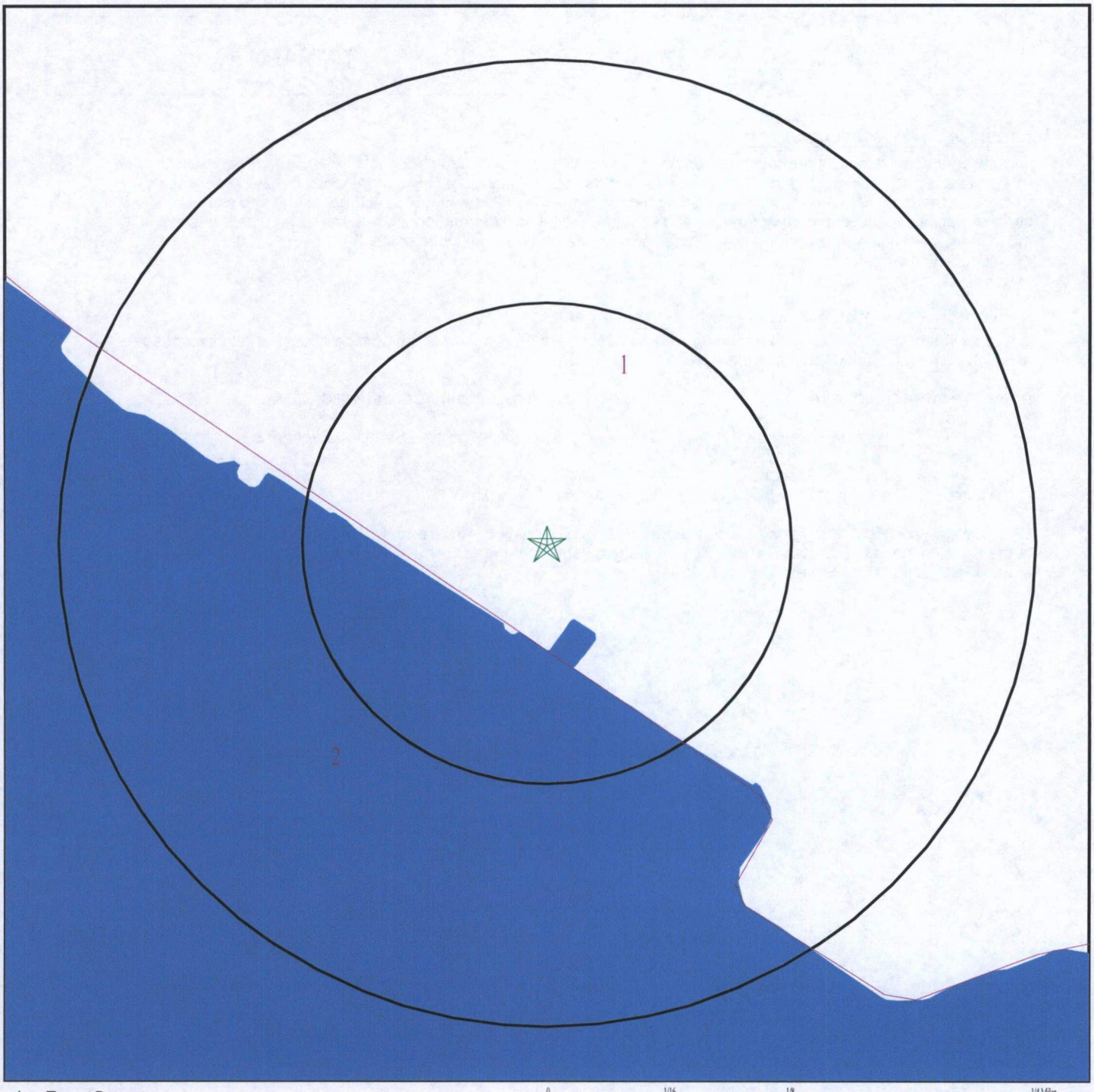
SSURGO SOIL MAP - 4069684.2s



★ Target Property
SSURGO Soil
Water

SITE NAME:	400 East Belt St	CLIENT:	Ninyo & Moore
ADDRESS:	400 East Belt St San Diego CA 92113	CONTACT:	Adrian Olivares
		INQUIRY #:	4069684.2s
LAT/LONG:	32.6933 / 117.145	DATE:	September 18, 2014 12:58 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: URBAN LAND

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

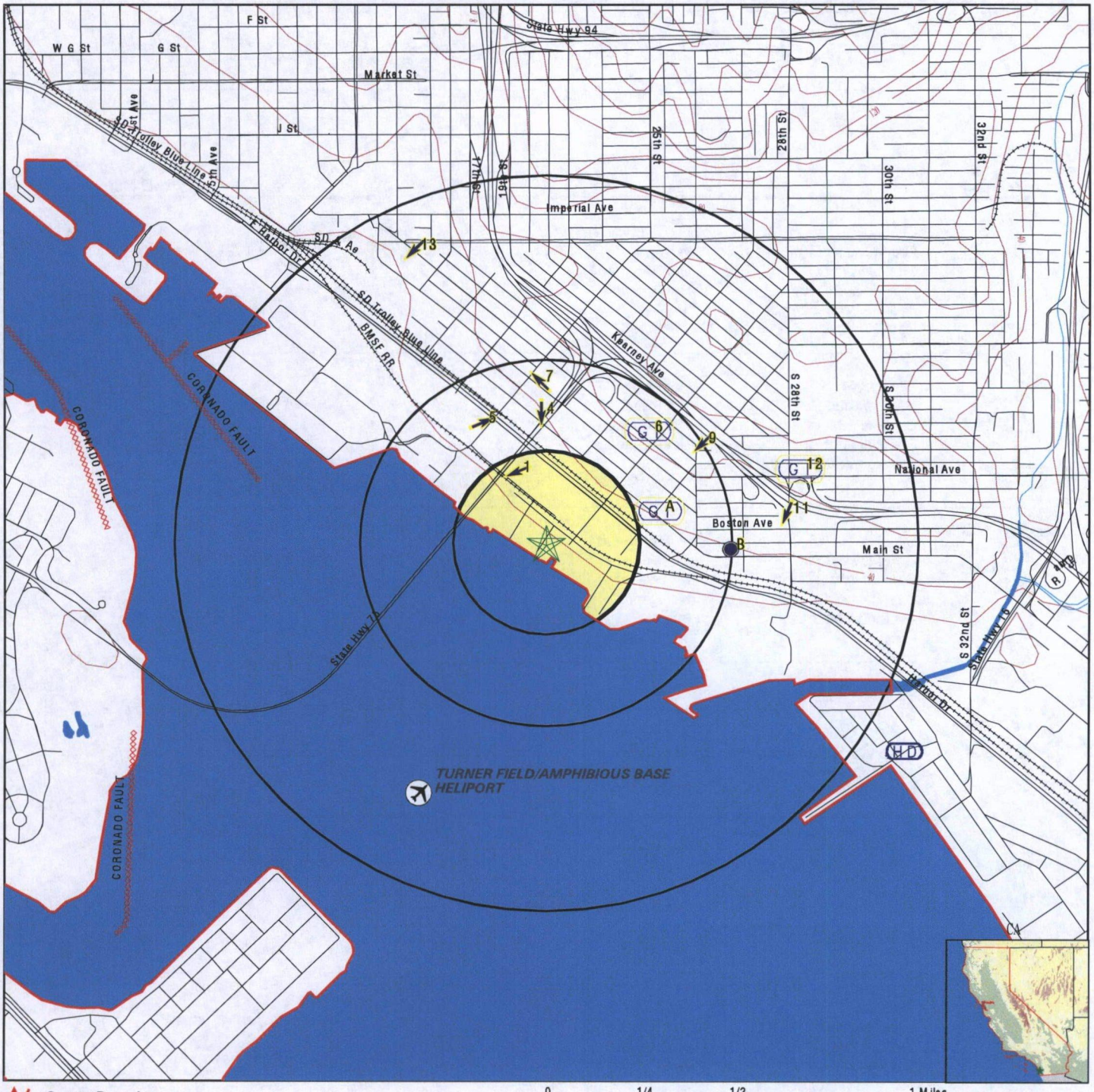
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

PHYSICAL SETTING SOURCE MAP - 4069684.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	400 East Belt St	CLIENT:	Ninyo & Moore
ADDRESS:	400 East Belt St San Diego CA 92113	CONTACT:	Adrian Olivares
LAT/LONG:	32.6933 / 117.145	INQUIRY #:	4069684.2s
		DATE:	September 18, 2014 12:58 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation			Database	EDR ID Number
1 **NNW** **1/8 - 1/4 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	9UT2560 WSW Not Reported Not Reported 10.5 11/16/1987	**AQUIFLOW**	**33932**
A2 **ENE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported Not Reported Not Reported Not Reported 35 06/23/1992	**AQUIFLOW**	**55157**
A3 **ENE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported Not Reported Not Reported Not Reported 30 12/14/1987	**AQUIFLOW**	**55143**
4 **North** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported S Not Reported Not Reported 25 03/13/1989	**AQUIFLOW**	**33934**
5 **NNW** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported ENE Not Reported Not Reported 15 06/1998	**AQUIFLOW**	**33931**
6 **NE** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	9UT1348 Not Reported Not Reported Not Reported 16 05/22/1989	**AQUIFLOW**	**33938**
7 **North** **1/4 - 1/2 Mile** **Higher**	Site ID: Groundwater Flow: Shallow Water Depth: Deep Water Depth: Average Water Depth: Date:	Not Reported NW Not Reported Not Reported 30 12/14/1987	**AQUIFLOW**	**38457**

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID / Direction / Distance / Elevation			Database	EDR ID Number
B8 **East** **1/4 - 1/2 Mile** **Higher**	Site ID:	Not Reported	**AQUIFLOW**	**33860**
	Groundwater Flow:	SW		
	Shallow Water Depth:	30		
	Deep Water Depth:	35		
	Average Water Depth:	Not Reported		
	Date:	07/07/1988		
9 **ENE** **1/2 - 1 Mile** **Higher**	Site ID:	Not Reported	**AQUIFLOW**	**38397**
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	59		
	Date:	06/20/1988		
B10 **East** **1/2 - 1 Mile** **Higher**	Site ID:	Not Reported	**AQUIFLOW**	**34179**
	Groundwater Flow:	WSW		
	Shallow Water Depth:	8		
	Deep Water Depth:	19.8		
	Average Water Depth:	Not Reported		
	Date:	08/25/1995		
11 **East** **1/2 - 1 Mile** **Higher**	Site ID:	9UT1625	**AQUIFLOW**	**38033**
	Groundwater Flow:	SSW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	25		
	Date:	06/12/1990		
12 **ENE** **1/2 - 1 Mile** **Higher**	Site ID:	Not Reported	**AQUIFLOW**	**38729**
	Groundwater Flow:	Not Reported		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	50		
	Date:	10/20/1998		
13 **NNW** **1/2 - 1 Mile** **Higher**	Site ID:	Not Reported	**AQUIFLOW**	**55090**
	Groundwater Flow:	SW		
	Shallow Water Depth:	Not Reported		
	Deep Water Depth:	Not Reported		
	Average Water Depth:	35		
	Date:	12/22/1995		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92113	2	0

Federal EPA Radon Zone for SAN DIEGO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SAN DIEGO COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.677 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)
Source: United States Geologic Survey
A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D

REGULATORY DOCUMENTATION

COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH RECORDS

OFFICE USE ONLY
Request # 8-105

County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(858) 505-6700 FAX (858) 505-6848
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

REQUEST TO REVIEW PUBLIC RECORDS FOR THE SITE ASSESSMENT AND MITIGATION (SAM) PROGRAM AND THE HAZARDOUS MATERIALS DIVISION (HMD)

Requestor Name: Adrian Olivares **E-Mail:** aolivares@ninyoandmoore.com

Phone: (858) 576-1000 x 11257 **FAX:** (858) 576-9600

Company Name: Ninyo & Moore

Mailing Address: 5710 Ruffin Road, San Diego, CA 92123
(You may attach a business card/overprint with business card if preferred)

Additional information on public records may be accessed from the DEH website, www.sdcdeh.org. Fax your completed form to the Public Records Program at (858) 505-6848 or attach completed form and e-mail to deh.publicrecords@sdcounty.ca.gov. The following information is required so that our files may be accurately searched. Separate forms are needed for each address or parcel number.

400 East Belt St., San Diego CA 92113 **or** _____
Exact Address (Street, City and Zip Code) Assessor's Parcel Number

Optional information (establishment permit number, business name, etc.):

If you indicate the purpose of your search, it will help us identify all the public records you may wish to review. If you know the program file you want to review, please check below:

☒ Contaminated Property Investigation(s) (SAM Cases)
☒ Hazardous Materials Permit & Underground Storage Tank Files (HMD/UST)
☒ SAM Closure Letter/Report
☐ Other: _____ (specify)

DEH complies fully with the California Public Records Act and the Federal Freedom of Information Act. Every properly completed request will be processed in the order it is received. Some files are on line as indicated below. Photocopies of file items may be requested. **A fee of $.20 per page is charged to cover cost of copies.**

OFFICE USE ONLY BELOW THIS LINE

Files reviewed by: _____ of _____ Date: / /
Files copied for: _____ of _____ Date: / /
Request cancelled by: _____ Date: / /
Photocopies _____ Cost _____ Picked up/mailed on _____ By _____

A search for DEH records checked above has been conducted and the following apply:

☐ SAM files for the permit number(s) below are available. After the files you have requested are retrieved from storage, an appointment will be scheduled so that you may review SAM records in the DEH main office.
_____ # _____ # _____ # _____ # _____

☐ HMD/UST files for the permit number(s) below are available for review at: http://sdcounty.ca.gov/deh/doing_business/hmd_search.html
_____ # _____ # _____ # _____ # _____

☐ Original records were purged. Database-only records are available (at: http://sdcounty.ca.gov/deh/doing_business/hazmat_search.html) for the following permit number(s):
_____ # _____ # _____ # _____ # _____

☐ No SAM/HMD/UST records were found for the address/APN you requested.

J Allman — 8, 14, 14
Signature - DEH Representative — Date

DEH-9098 (Rev. 02/11)

COUNTY OF SAN DIEGO AIR POLLUTION CONTROL DISTRICT RECORDS

Adrian Olivares

From: Langley, Andrew [Andrew.Langley@sdcounty.ca.gov]
Sent: Tuesday, July 22, 2014 4:09 PM
To: Adrian Olivares
Subject: RE: Records Request - Melrose Dr. & Belt St.

Hi Adrian,

I was only able to find documents for the 1691 Melrose Drive address. See attached.

Thanks

Andrew Langley
APCD Aide
10124 Old Grove Road
San Diego, CA 92131
Ph: 858-586-2615
Celebrating 50+ Years of Air Quality Progress!

From: Adrian Olivares [mailto:aolivares@ninyoandmoore.com]
Sent: Monday, July 21, 2014 2:07 PM
To: Langley, Andrew
Subject: Records Request - Melrose Dr. & Belt St.

Hi Andrew,

Please see attached request.

Thanks,

Adrian Olivares
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 x 11257
(858) 576-9600 (Fax)
aolivares@ninyoandmoore.com
Experience . Quality . Commitment

SAN DIEGO AIR POLLUTION CONTROL DISTRICT

REQUEST FOR PUBLIC RECORDS

Date: July 21, 2014

Name: Adrian Olivares

Agency: Ninyo & Moore

Address: 5710 Ruffin Road

City: San Diego State: CA Zip: 92123

Phone: (858) 576-1000 ext. Fax: (858) 576-9600

I request to inspect the following Public Records (please be specific): Information on Permits, Notices of Violation, and Emissions for the following facilities:

1) 1691 Melrose Drive San Marcos, CA 92078
2) 1693 Melrose Drive San Marcos, CA 92078

3) 400 East Belt Street, San Diego, CA 92113

INSPECTION OF PUBLIC RECORDS

The district shall make a determination if the records requested are available with the exception of those records specifically exempted from disclosure by state law and those records labeled as "TRADE SECRET" which are not emission data, within ten (10) days of the date of the receipt of the request. If, for good cause, the determination cannot be made within the ten (10) working days, the District will notify the requesting person the reasons for the delay and when the determination is expected to be made within an additional 14 days, as prescribed by law. Those records labeled as "TRADE SECRETS" shall be governed by the procedure set forth in District Rule 177 Section (g).

If you have any questions, please contact Public Records at (858) 586-2618.

Mail or fax completed form to:

San Diego APCD
Public Records
10124 Old Grove Road
San Diego, CA 92131 Phone: (858) 586-2600 Fax No.: (858) 586-2601

01/06

Adrian Olivares

From: Adrian Olivares
Sent: Monday, July 21, 2014 3:40 PM
To: 'Langley, Andrew'
Subject: Records Request - E Belt St

Andrew,

Here's one more.

Thanks,

Adrian Olivares
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 x 11257
(858) 576-9600 (Fax)
aolivares@ninyoandmoore.com
Experience . Quality . Commitment

SAN DIEGO AIR POLLUTION CONTROL DISTRICT

REQUEST FOR PUBLIC RECORDS

Date: July 21, 2014

Name: Adrian Olivares

Agency: Ninyo & Moore

Address: 5710 Ruffin Road

City: San Diego State: CA Zip: 92123

Phone: (858) 576-1000 ext. Fax: (858) 576-9600

I request to inspect the following Public Records (please be specific): Information on Permits, Notices of Violation, and Emissions for the following facilities:

1) 2205 East Belt Street, San Diego, CA 92113

INSPECTION OF PUBLIC RECORDS

The district shall make a determination if the records requested are available with the exception of those records specifically exempted from disclosure by state law and those records labeled as "TRADE SECRET" which are not emission data, within ten (10) days of the date of the receipt of the request. If, for good cause, the determination cannot be made within the ten (10) working days, the District will notify the requesting person the reasons for the delay and when the determination is expected to be made within an additional 14 days, as prescribed by law. Those records labeled as "TRADE SECRETS" shall be governed by the procedure set forth in District Rule 177 Section (g).

If you have any questions, please contact Public Records at (858) 586-2618.

Mail or fax completed form to:

San Diego APCD
Public Records
10124 Old Grove Road
San Diego, CA 92131 Phone: (858) 586-2600 Fax No.: (858) 586-2601

01/06

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2009-NOV-220638	02/12/2009		Closed - Paid

Type
LUEG-APCD/ComplianceNotice of ViolationNA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	1,500.00	1,500.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD V C Mailing			SHAUN HALVAX

Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE SYSTEMS SD SHP REPAIR
Street Address: 2205 EAST BELT STREET
Business Phone: 6195718832
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	--Select--

Fax:
E-mail:
Notes:

check spelling

APCD VIO Location *(This section is not required.)*

Search As Contact

Type: APCD VIO Location | First Name | Last Name | Full Name: MAILED CERTIFIED

Relationship: -Select- | Title

Primary: Yes | Organization Name: BAE SYSTEMS SD SHP REPAIR

Business Phone: 6195718632 | Street Address: FOOT OF SAMPSON STREET

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: -Select-

E-mail

Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search | As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name

Relationship: -Select- | Title

Primary: No | Organization Name

Street Address

Business Phone | Address Line 2

Mobile Phone | Address Line 3

Home Phone | City | State | Zip Code | Country: -Select-

Fax | E-mail

Notes

check spelling

APCD VIO Agent *(This section is not required.)*

Search | As Contact

Type: APCD VIO Agent | First Name | Last Name | Full Name

Relationship: -Select- | Title

Organization Name

Business Phone | Street Address

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City | State | Zip Code | Country: -Select-

Notes | E-mail

Primary: No

check spelling

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(T
21	PO CND #4-BY OPERATING OR ALLOWING THE OPERATION OF AN ABRASIVE	Permit Conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 220638

Asbestos Reference Number:

Complaint Reference Number:

Inspection Type [Method]: --Select--

Date NOV Issued: 02/12/2009

Date Violation began: 02/11/2009

Date Violation Ends:

Statute of Limitations:

Inspector: JWP

Received by:

Title of recipient:

Certified Mailing Number:

Certified Mailing Date:

Return Receipt Received: Yes No

Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:

Response Acknowledgement Letter: - Select

Acknowledgement Letter Date:

File to CAI: 03/18/2009

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 04/27/2009

1st Offer Amount: 1500 00

Maximum Penalty: --Select--

1st offer comments: MS1

2nd Offer Letter Date:

2nd Offer Amount:

2nd offer comments

Referred to: -Select-

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment: Yes / No

Judgment amount

Case Number

Case comments

Result: FI

Date of Payment: 05/26/2009

Final Date: 05/26/2009

Civil Actions Investigator: GAG

Negotiated Amount

Legacy Data

Disposition: MS

Disposition Comments

Method: QI

APCD NOV Form - Rev July 2012

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2012-APP-002046	LKR to PO 930298	LUEG-APCD/Permit App/Abrasive Blasting/Blast Rooms	Approved	03/27/2012	SMARECHA	COSD/LUEG		
APCD2010-NOV-000333	221365	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	04/16/2010	Greg Gjerde	COSD/LUEG		
APCD2008-PTO-930298		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2008				A
APCD2009-NOV-220430		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	05/13/2009	Greg Gjerde	COSD/LUEG	Greg Gjerde	
APCD2009-HBD-04290		LUEG-APCD/Variance App/Variance/NA	Closed	05/07/2009			Heidi Pack	
APCD2009-APP-987935		LUEG-APCD/Permit App/Abrasive Blasting/Blast Rooms	Approved	03/26/2009	Camqui Nguyen	COSD/LUEG		M
APCD2009-NOV-220638		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	02/12/2009	Greg Gjerde	COSD/LUEG		
APCD2000-NOV-210275		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	10/16/2000				
APCD1999-NOV-209131		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/27/1999				
APCD1994-APP-930866		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	04/18/1994	CW	M		A

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2009-NOV-220634	01/02/2009		Closed - Paid

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division (Current Division)	Entered/Updated by: * (Current User)	Entered Date
--Select--	--Select--	

Division (Current Division)	Assigned to: (Current User)	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	0.00	0.00	0.00

Expiration Status **Expiration Date** **Record Name**

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD V O Mailing			SHAUN HALVAX

Relationship: --Select--
Title:
Organization Name: BAE SYSTEMS SD SHP REPAIR INC
Primary: Yes
Street Address: 2205 EAST BELT STREET
Business Phone: 6195718632
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	--Select--

Fax:
E-mail:
Notes:

check spelling

APCD VIO Location *(This section is not required)*

Search As Contact

Type: APCD VIO Location | First Name | Last Name | Full Name: MAILED CERTIFIED
Relationship: -Select- | Title
Primary: Yes | Organization Name: BAE SYSTEMS SD SHP REPAIR INC
Business Phone: 6195718632 | Street Address: FOOT OF SAMPSON STREET
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: -Select-
E-mail
Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: -Select- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: -Select-
E-mail
Notes

check spelling

APCD VIO Agent *(This section is not required.)*

Search As Contact

Type: APCD VIO Agent | First Name | Last Name | Full Name
Relationship: -Select- | Title
Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: -Select-
Notes | E-mail
Primary: No

check spelling

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	PO CND #4-BY OPERATING OR ALLOWING THE OPERATION OF A MARINE CO	Permit Conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 220634

Asbestos Reference Number:

Complaint Reference Number:

Inspection Type [Method]: --Select--

Date NOV Issued: 01/02/2009

Date Violation began: 10/01/2008

Date Violation Ends:

Statute of Limitations:

Inspector: JMP

Received by:

Title of recipient:

Certified Mailing Number:

Certified Mailing Date:

Return Receipt Received: ○ Yes ○ No

Return Receipt Received Date:

Title V: ○ Yes ○ No

Synthetic Minor: ○ Yes ○ No

Pollutant that makes TV/SM: --Select--

PSD: ○ Yes ○ No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date:

File to CAI: 02/18/2009

Senior Inspector Comments

check spelling

Settlement Details

HPV: ○ Yes ○ No

1st Offer letter Date: 03/20/2009

1st Offer Amount: 500 00

Maximum Penalty: --Select--

1st offer comments: MS1

2nd Offer Letter Date: 05/12/2009

2nd Offer Amount:

2nd offer comments
NFA

Referred to | **Hearing Board Number**
-Select-

Date Case Referred | **Date Complaint Filed** | **Trial Date** | **Judgment** (Yes / No) | **Judgment amount**

Case Number | **Case comments**

Result	Date of Payment	Final Date	Civil Actions Investigator	Negotiated Amount
NFA		04/15/2009	GAG	

Legacy Data

Disposition	Disposition Comments
MS	CMB W220638 & 219874

Method
AI

APCD NOV Form - Rev July 2012

Related Records

« 1 2 » ⏭

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG.		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG.		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG ..		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG		

« 1 2 » ⏭

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2008-NOV-219874	11/07/2008		Closed - Paid

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	300.00	300.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			SHAWN HALVAX

Relationship: -Select-
Title:
Primary: Yes
Organization Name: BAE SYSTEMS MARITIME ENGR
Street Address: 2205 EAST BELT STREET
Business Phone: 8585141280
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	-Select-

Fax:
E-mail:

Notes

check spelling

APCD VIO Location *(This section is not required.)*

Search As Contact

Type: APCD VIO Location
First Name:
Last Name:
Full Name: SHAWN HALVAX
Relationship: --Select--
Title:
Organization Name: BAE SYSTEMS MARITIME ENGR
Primary: Yes
Street Address: FOOT OF SAMPSON STREET
Business Phone: 8585141280
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO
State: CA
Zip Code: 92113
Country: --Select--
Fax:
E-mail:
Notes:

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location
First Name:
Last Name:
Full Name:
Relationship: --Select--
Title:
Organization Name:
Primary: No
Street Address:
Business Phone:
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City:
State:
Zip Code:
Country: --Select--
Fax:
E-mail:
Notes:

check spelling

APCD VIO Agent *(This section is not required.)*

Search As Contact

Type: APCD VIO Agent
First Name:
Last Name:
Full Name:
Relationship: --Select--
Title:
Organization Name:
Business Phone:
Street Address:
Mobile Phone:
Address Line 2:
Home Phone:
Address Line 3:
Fax:
City:
State:
Zip Code:
Country: --Select--
Notes:
E-mail:
Primary: No

check spelling

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Ti
67 17(d)(1)	BY FAILING TO ENSURE ALL CONTAINERS OF VOLATILE ORGANIC COMPOUN	Open VOC Containers - Materials	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 219874

Asbestos Reference Number

Complaint Reference Number

Inspection Type [Method]: --Select--

Date NOV Issued: 11/07/2008

Date Violation began: 11/07/2008

Date Violation Ends

Statute of Limitations

Inspector: JMP

Received by

Title of recipient

Certified Mailing Number

Certified Mailing Date

Return Receipt Received: Yes No

Return Receipt Received Date

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date

File to CAI: 12/17/2008

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 03/20/2009

1st Offer Amount: 300 00

Maximum Penalty: --Select--

1st offer comments: MS1

2nd Offer Letter Date

2nd Offer Amount

2nd offer comments

Referred to

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment
Yes No

Judgment amount

Case Number

Case comments

Result
FI

Date of Payment
05/13/2009

Final Date
05/13/2009

Civil Actions Investigator
GAG

Negotiated Amount

Legacy Data

Disposition
MS

Disposition Comments
CMB W/220634 & 220638

Method
FDE

APCD NOV Form - Rev July 2012

Related Records

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2009-PTO-877942		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				M
APCD2008-NOV-219874		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	11/07/2008	Greg Gjerde	COSD/LUEG		
APCD2008-NTC-20771		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	08/25/2008	Greg Gjerde	COSD/LUEG		
APCD2008-APP-986906		LUEG-APCD/Permit App/Material Application/Marine Coating	Cancelled	07/31/2008	AGONZAL1	COSD/LUEG		M
APCD2004-APP-982335		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	12/16/2004				C
APCD2004-NTC-18665		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	08/10/2004	Joseph Zechman	COSD/LUEG		

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2000-APP-975762

PERMIT ID
APCD2005-PTO-975762

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

ADHESIVE MATERIAL APPLICATION OPERATION: OUTDOORS, WORKSTATIONS AND ON SHIP BOARD; USING BRUSHES AND ROLLERS FOR MATERIALS APPLICATION, AND SOAP AND WATER SOLUTION FOR CLEANUP OPERATION.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [27U] Adhesive Materials Application Station

BEC: 11913

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Permittee shall not use coatings and/or solvents which contain Toxic Air Contaminants (TACS) listed in Rule 1200 (Revision Effective 6/12/96) except toluene.
2. Toluene emissions from this adhesive application operation shall not exceed 201 lbs per consecutive 12-month period. This equates to usage of 183 gallons per consecutive 12-month period of adhesive materials containing 16% by weight toluene.
3. Permittee shall comply with all recordkeeping requirements of Rule 67.21, including, maintaining a current list of all materials used which provides all of the data necessary to evaluate compliance. Daily usage records of each adhesive material used shall be maintained on site. Monthly inventory (dispensing) records for each solvent used as an adhesive bonding agent, or for stripping, surface preparation, or cleaning shall be maintained on-site. These records shall be maintained on-site for three years and made available to the District upon request.
4. Current Material Safety Data Sheets (MSDS) or manufacturer's specifications regarding Volatile Organic Compound (VOC) and/or toxic air contaminant (TAC, see Rule 1200) content shall be maintained on-site for all materials and made readily available to the District upon request. (Rule 67.11, Rule 1200)
5. Total daily emissions of Volatile Organic Compounds (VOC) from this equipment at this stationary source shall not exceed 10 pounds per day.
6. Total emissions of Volatile Organic Compounds (VOC) from all adhesive material application equipment at this stationary source shall not exceed 5 tons in any 12 consecutive months.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2000-APP-975762

PERMIT ID
APCD2005-PTO-975762

7. Adhesive materials, adhesive bonding agents, stripping, surface preparation, and cleaning materials used in these adhesives materials application operation shall comply with Rule 67.21 requirements. (Rule 67.21)
8. Permittee shall comply with all recordkeeping requirements of Rule 67.21, including, maintaining a current list of all materials used which provides all of the data necessary to evaluate compliance. Daily usage records of each adhesive material used shall be maintained on site. Monthly inventory (dispensing) records for each solvent used as an adhesive bonding agent, or for stripping, surface preparation, or cleaning shall be maintained on-site. These records shall be maintained on-site for three years and made available to the District upon request.
9. All solvents, materials containing solvents and other materials containing organic compounds shall be stored in closed containers in accordance with Rule 67.17 requirements.
10. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
11. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
12. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 27 – ADHESIVE MATERIAL APPLICATION OPERATIONS

ID #: 00204 Permit / Registration #: 975762 Date of Inspection: 11/15/13

Facility: BAE Systems Date of Expiration: September

Representative: Cara Bandera Title: Env. Supervisor Phone: 619-557-4209

EQUIPMENT DESCRIPTION

1a. Equipment same as described on permit to operate? YES ☒ Yes ☐ No

1b. If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No

Description of changes: _____

2a. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No

2b. Ownership verified? YES ☒ Yes ☐ No

3. Permit conditions reviewed (current / enforceable)? YES ☒ Yes ☐ No

(If no, complete permit condition change request and describe changes in the comments section)

EQUIPMENT INSPECTION

4. Equipment observed in operation? NO ☐ Yes ☒ No

5. Type of substrate: Marine metal

6. Are adhesives applied in a spray booth? NO ☐ Yes ☒ No

If no, state where adhesives are applied: Pier

a. Are booth filters in place and in good condition? N/A ☐ Yes ☐ No ☒ N/A *Rule 21*

b. Are the fans operational? N/A ☐ Yes ☐ No ☒ N/A *Rule 21*

7. VOC materials stored in closed containers? YES ☒ Yes ☐ No *Rule 67.17, 21*

If no, indicate size of containers, content and quantity below:

Size of Container	Contents	Quantity

8. Facility using compliant surface preparation solvents? N/A ☐ Yes ☐ No *Rule 67.21(d)(3)*

a. Mfg. Name / ID#: None VOC Content: ____

b. or Boiling Point: ____ Or Vapor Pressure: ____

APCD Rev. 06/04

9. Facility using a compliant application equipment cleaning solvent? ☒ Yes ☐ No *Rule 67.21(d)(4)*

a. Mfg. Name / ID#: Water/Acetone VOC Content: 0 g/l

b. or Boiling Point: _____ Or Vapor Pressure: _____

State Cleaning method used: spray through gun

10. ADHESIVES

Manufacturer Name / ID#		VOC (Content as applied)	VOC (Standard)	Rule 67.21 compliant adhesive?
ADHESIVE: Natural Dolfinite Bedding Compound 2005		115 g/l	250g/l	YES
Adhesive Category (Per R67.21)	General Adhesive Materials: Architectural Products			
Adhesive Type / VOC Standard (Choose one from either drop down menu)	Contact adhesive - General/250 g/l.			
ADHESIVE: DAP Weldwood (contact cement) (16oz cans)		500 g/l	EXM	YES
Adhesive Category (Per R67.21)				
Adhesive Type (Per R67.21) (Choose one from either drop down menu)				
ADHESIVE:				
Adhesive Category (Per R67.21)				
Adhesive Type (Per R67.21) (Choose one from either drop down menu)				
ADHESIVE:				
Adhesive Category (Per R67.21)				
Adhesive Type (Per R67.21) (Choose one from either drop down menu)				

11. Does the facility have a control device? NO ☐ Yes ☒ No *Rule21*

If yes, state the type of control device: _____

a. What are the required operating parameters of the device: N/A

b. Is the control device operating within the specified parameters? N/A ☐ Yes ☐ No *Rule 21*

c. List the operating parameters at the time of inspection: N/A

RECORDKEEPING

12. Facility has a current list of adhesive materials? YES ☒ Yes ☐ No *Rule67.21(d)(1)(i)*
    a. including the category of adhesive material; YES ☒ Yes ☐ No *Rule67.21(d)(1)(i)(A)*
    b. mfg name and ID # for each adhesive material; YES ☒ Yes ☐ No *Rule67.21(d)(1)(i)(B)*
    c. mix ratio of components (where applicable); YES ☒ Yes ☐ No *Rule67.21(d)(1)(i)(C)*
    d. VOC content, vapor pressure: and/or initial boiling point (where applicable). YES ☒ Yes ☐ No *Rule67.21(d)(1)(i)(D)*
13. Facility has current MSDS / product data information from the manufacturer / supplier? YES ☒ Yes ☐ No *Rule 21*
14. Facility keeping daily or monthly records of the amount of each adhesive material used? YES ☒ Yes ☐ No *Rule 67.21(d)(1)(ii), 21*
15. Facility keeping daily records of emission control equipment operating parameters? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.21(d)(2)(ii)*
16. Facility maintaining inspection and maintenance schedules for the control equipment? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.21(d)(2)(ii)*

EMISSION REQUIREMENTS / SOURCE TESTING

17. What is the facility's permitted emission limit? 5 tons/ 12 mths, 10 lbs/day
18. Is the facility exceeding the permitted emission limit? ☒ Yes ☐ No *Rule 21*
    If yes, state the number of days the facility exceeded the emission limit:
19. Indicate the facility usage of:
    a. Adhesives: 2013: 0.75 gallons YTD
    b. Solvents:
    c. Cleaning Solvents:
20. Is the facility required to be source tested? NO ☐ Yes ☒ No *Rule 21*
    If yes, state the source test frequency and the results of the last source test:

COMPLIANCE ACTIONS

21. Notice to Comply Issued? NO ☐ Yes ☒ No Document No.
    Rules:

List NTC items below:

22. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NOV items below:

Additional Comments: Most materials used are exempt material (0 VOC or 160z cans).

Inspectors signature: Miguel Reynoso Jauregui Date of Report: 11/22/13

AQIII Initials: _____ Date: 11/9/13

APCD Rev. 06/04

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2005-NTC-18390	11/15/2005		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			BAE SYSTEMS SHIP REPAIR

Relationship: -Select-
Title:
Primary: Yes
Organization Name: BAE SYSTEMS SHIP REPAIR
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92170	-Select-

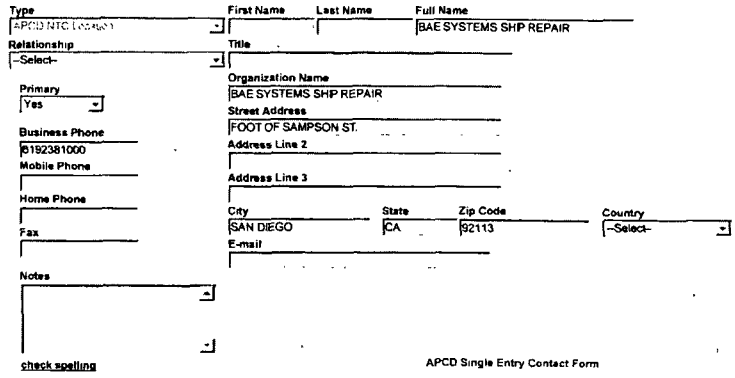
Fax:
E-mail:

Notes

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

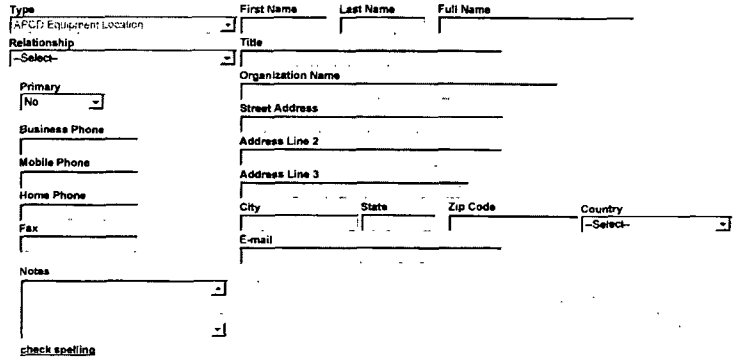


Type: APCD NTC Location
First Name:
Last Name:
Full Name: BAE SYSTEMS SHIP REPAIR
Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE SYSTEMS SHIP REPAIR
Street Address: FOOT OF SAMPSON ST.
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO
State: CA
Zip Code: 92113
Country: --Select--
Fax:
E-mail:
Notes:
check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact



Type: APCD Equipment Location
First Name:
Last Name:
Full Name:
Relationship: --Select--
Title:
Primary: No
Organization Name:
Street Address:
Business Phone:
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City:
State:
Zip Code:
Country: --Select--
Fax:
E-mail:
Notes:
check spelling

- Notice to Comply

NTC Issue Date: 11/15/2005
NTC Start Date:
NTC End Date:
Compliance Due Date: 11/30/2005
Inspector: PAC
Served To:
Title:
Certified Mailing Number:
Certified Mailing Date:
Return Receipt Received: C Yes C No
Return Receipt Received Date:
Compliance (Achieved or Received) Date:
NR Letter:
Follow Up Inspection Request Date:
Inspection Due Date:
Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A		34G	18390
Final Disposition	**Date NTC Letter Sent**	**Civil Actions Investigator**	
--Select--		GAG	

Description of Violation(s) and Corrective Action Required

CLOSED-REC'D CERT COMPLIANCE DATED 11/29/05 FAILURE TO MEASURE AND RECORD AIR TO FUEL RATIO AND ENGINE INLETTEMPERATURE ON AT LEAST A MONTHLY BASIS MONITOR AND RECORD THE SPECIFIED PARAMETERS AS REQUIRED BY PO 962004

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
8	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

1 2 3 4 5 6 7 8 9 10

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG...		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG...		
APCD2010-CER-000226	New app for existin...	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG...		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG...		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

1 2 3 4 5 6 7 8 9 10

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2005-APP-983382

PERMIT ID
APCD2007-PTO-983382

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

SOLVENT RECOVERY PROCESS, CONSISTING OF: ONE (1) CB MILLS MICRO STILL USED TO RECOVER SOLVENTS. 983382(ABG)

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [44B] Solvent Recovery Still

BEC: 13228

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Air pollution control equipment shall be maintained in good operating condition and shall be in full operation in accordance with manufacturer's instructions at all times when the process equipment is in operation. The manufacturer's instructions shall be maintained on site and made available to the District upon request.
2. All materials containing volatile organic compounds shall be stored in closed containers in accordance with Rule 67.17 requirements. (Rule 67.17)
3. At no time shall the subject equipment cause or contribute to a public nuisance as specified in District Rule 51. If compliance with Rule 51 cannot be demonstrated to the satisfaction of the District, the permittee will take whatever corrective action necessary to meet applicable requirements. If corrective action requires any physical change or modification to the subject equipment the permittee shall apply for and obtain an Authority to Construct for all such modifications prior to making any physical change. (Rule 51)
4. Permittee shall comply with all applicable requirements in Rule 66.1 (Rule 66.1)
5. Permittee shall operate and maintain the equipment described above in accordance with the manufacturer's instructions and the drawings and descriptions submitted for this permit except as otherwise specified by this permit. Manufacturer's instructions shall be made available to District personnel upon request.
6. Emission of volatile organic compounds (VOC) from the above emission unit shall not exceed 10 pounds per day. For the purposes of this condition, 3.3 lbs of VOC emissions are released per ton of VOC containing material processed. (Rule 20.2)

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2005-APP-983382

PERMIT ID
APCD2007-PTO-983382

7. Daily records shall be maintained on-site of VOC containing materials processed daily in the above operations. These records shall be made available to the District upon request. Records shall be kept for at least three (3) years. (Rule 20.2)
8. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
9. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
10. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 44 – EVAPORATORS / DRYERS / STILLS

Company Name (d.b.a.): BAE Systems, foot of Sampson St, SD 92113

Company Representative: Cara Bandera Title: Env. Supervisor

Id #: 00204 Permit #: 983382 Date of Expiration: 9/14

Date of Inspection: 11/14/13

EQUIPMENT DESCRIPTION

1. Equipment same as described on permit to operate? YES ☒ Yes ☐ No
   If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No
   Description of changes: _____
2. Are permit conditions current and enforceable? YES ☒ Yes ☐ No
   (If no, complete permit condition change request and describe changes in the comments section)
3. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No
4. Ownership verified? YES ☒ Yes ☐ No

EQUIPMENT INSPECTION

5. Equipment observed in operation? NO ☐ Yes ☒ No
6. Furnace Temperature: _____ ° F
7. Fuel Used: ☐ Natural Gas ☒ Electric ☐ Other: _____
8. Annual Fuel Usage: _____ gallons / year
9. Control Equipment:
   List Type: None
10. System Leaks? NO ☐ Yes ☒ No ☐ N/A
    Location: _____
11. Rule 50 Visible Emissions Compliance? YES ☒ Yes ☐ No ☐ N/A
    If no, Opacity: ___ % *(See V/E Evaluation Sheet)*
12. Rule 67.17 Storage of Materials Containing VOC's Compliance? YES ☒ Yes ☐ No ☐ N/A

COMPLIANCE ACTIONS

13. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____
    Rules: _____
    List NTC items below:

14. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NOV items below:

Additional Comments: Limit 10 lb/day (3.3 lb/ton processes). Not used since 4/10, observed in storage. CB Mills S/N:H823-0005 Model M-30.

Inspectors signature Miguel Reynoso Jauregui MRJ Date of Report: 11/22/13

AQIII Initials: [signature] Date: 12/9/2013

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2006-NTC-20580	08/10/2006		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
--Select--		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
APCD Compliance CAIs		Greg Gjerde		0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			SANDOR HALVAX

Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE SYSTEMS
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92170	--Select--

Fax:
E-mail:

Notes

check spelling

APCD NTC Location *(This section is not required.)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: SANDOR HALVAX

Relationship: -Select- | Title

Primary: Yes | Organization Name: BAE SYSTEMS

Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: -Select-

E-mail

Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search | As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name

Relationship: -Select- | Title

Primary: No | Organization Name

Business Phone | Street Address

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City | State | Zip Code | Country: -Select-

E-mail

Notes

check spelling

Notice to Comply

NTC Issue Date: 08/10/2006 | NTC Start Date | NTC End Date: 08/23/2006 | Compliance Due Date: 09/06/2006

Inspector: PAD | Served To: JULIA GLEN | Title: SR ENV ADMIN

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID | Sector ID: 07 | Reference NOV number | Complaint Number

Facility ID: 344 A | Permit Reference ID | Equipment Type Reference: 26A | Legacy Reference ID: 20580

Final Disposition: -Select- | Date NTC Letter Sent | Civil Actions Investigator: GAG

Description of Violation(s) and Corrective Action Required

8/30/06 CERTIFIED COMPLIANCEFAILURE TO DRAIN ALL VAPOR RECOVERY COAXIAL HOSES ON A WEEKLY BASISAND RECORD THE VOLUME OF GASOLINE ACCUMULATED IN EACH HOSE ON IN THEHOSES OR AN EQUIVALENT DISTRICT-APPROVAL FORM. [ACCOMPLISH SAIDDRAINAGE AND RECORD COLLECTED DATA ON SAID FORM ON A WEEKLY BASIS

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
7	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

1 2 3 4 5 6 7 8 9 10

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG		
APCD2013-VRT-0851	870676	LUEG-APCD/Compliance/Vapor Recovery/Test Notification	Cancelled	07/24/2013	Richard Brey	COSD/LUEG ..		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG ..		
APCD2012-VRT-0840	870676	LUEG-APCD/Compliance/Vapor Recovery/Test Notification	Reviewed - Inspector	07/11/2012	Gerhard Wolff	COSD/LUEG...		
APCD2011-VRT-0787	PO# 870676	LUEG-APCD/Compliance/Vapor Recovery/Test Notification	Reviewed - Inspector	07/27/2011	John Gervasi	COSD/LUEG ..		
APCD2010-CER-000226	New app for existin	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG .		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG ..		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M

1 2 3 4 5 6 7 8 9 10

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2008-PTO-870150	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
BOILER: ABCO, MODEL 300 AMC, S/N 80129-300, 12.6 MMBTU/HOUR HEAT INPUT,FIRED WITH NATURAL GAS (951082-EAD-10/97)(970417-CCN-10/97)

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	2,025.00	2,025.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2009	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship: -Select-
Title:
Primary: Yes
Organization Name: BAE SYSTEMS SAN DEGO SHIP REPAIR INC
Business Phone: 6192381000
Street Address: FOOT OF SAMPSON ST
Mobile Phone:
Address Line 2:
Home Phone:
Address Line 3:

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	-Select-

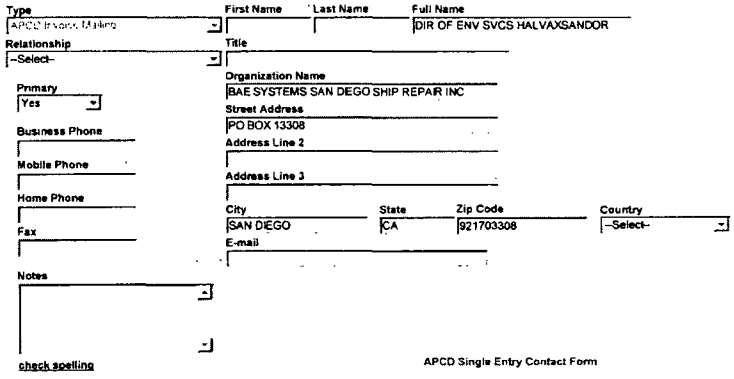
Fax: 6195950459
E-mail:

Notes

check spelling

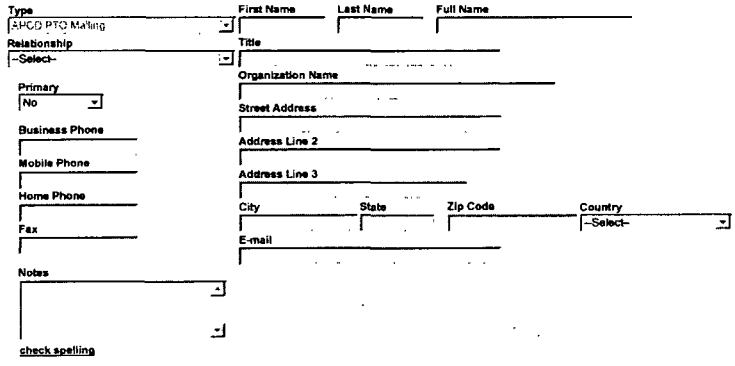
APCD Invoice Mailing *(This section is not required.)*

Search As Contact

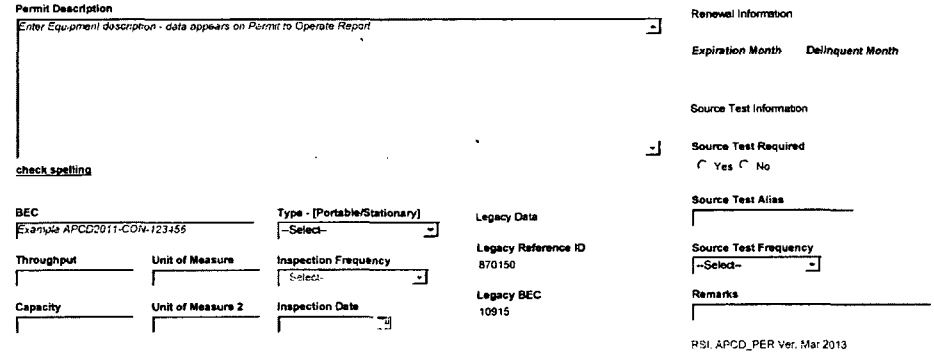


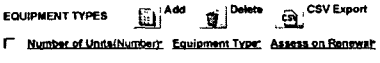
APCD PTO Mailing *(This section is not required)*

Search As Contact



- Permit to Operate





VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction Street Name Street Type

-Select- -Select-

City State Zip Code Address Status Primary X Coordinate

-Select- Yes

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

-Select-

Related Records

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG ..		
APCD2010-CER-000226	New app for existn...	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG...		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG .		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1998-PTO-030065	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
DIESEL ENGINE GENERATOR SET- ENGINE, CATERPILLAR, MODEL D 353-E, 375 HP,S/N 46B5327, PRECHAMBER, TURBOCHARGED, AFTERCOOLED, MOUNTED ON A SHORECRANE, AMERICAN R-15, 35 TON CAPACITY, S/N 84831R (921305-EAD-1/95)(NO APP)

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
-Select-		-Select-		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
-Select-		-Select-		196.00	196.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/1998	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship: -Select-
Title:
Organization Name: BAE SYSTEMS SAN DEGO SHIP REPAIR INC
Primary: Yes
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	-Select-

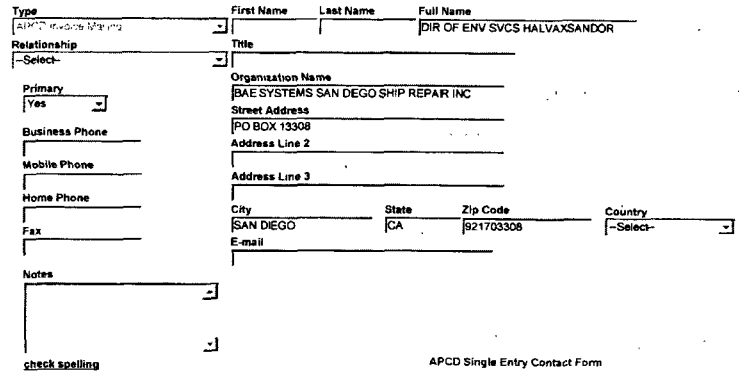
Fax: 6195950459
E-mail:

Notes

check spelling

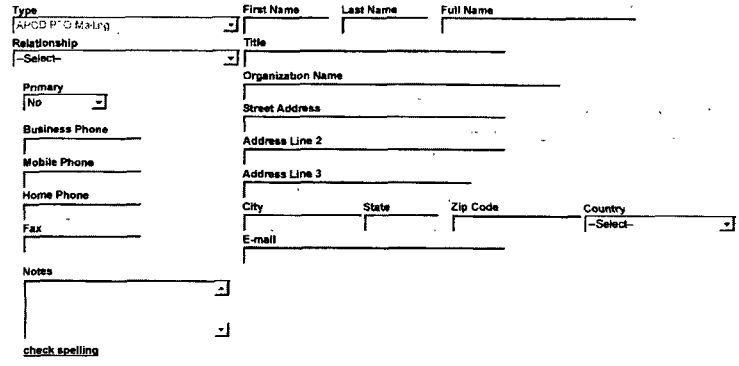
APCD Invoice Mailing *(This section is not required)*

Search As Contact

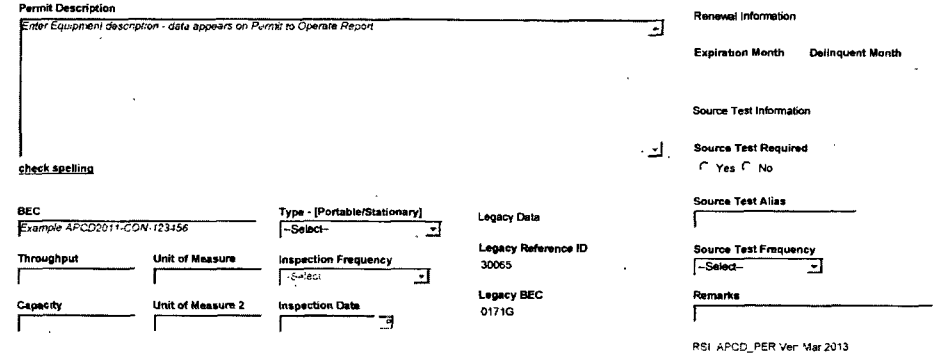


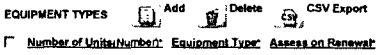
APCD PTO Mailing *(This section is not required.)*

Search As Contact



-Permit to Operate





VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction --Select-- Street Name Street Type --Select--

City State Zip Code Address Status --Select-- Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

--Select--

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD1998-PTO-030065		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				D
APCD1985-APP-030065		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1993-APP-921305		LUEG-APCD/Administrative/Legacy Data/Uncategorized	C	04/16/1993	EDAVIS1	COSD/LUEG		M
APCD1991-APP-910391		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	10/18/1991	CW	M		M

1

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2001-APP-976428

PERMIT ID
APCD2005-PTO-030064

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

DIESEL ENGINE, DETROIT DIESEL MODEL 16V-149TI, #2 DIESEL OIL FUELED, LOCATED IN ENGINE #1 FLOATING DRY DOCK, S/N 16E0007583, ENGINE POWER SPOSD #1. (APP #930850 EAD 7/18/95) 976428AFS 29 OCT 2002

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34D] Engine for Non-Emergency & Non-Cogeneration

BEC: 12302

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. The engine hour meter shall be maintained in good working order and used for recording operating hours in the daily log. The compliance section at the District shall be notified prior to an hour meter replacement.
2. Fuel samples may be obtained from the site by District personnel at anytime for analysis, at the permittee's expense, to determine compliance with fuel quality requirements.
3. Operation of this engine shall not exceed 1000 hours per 12 consecutive month period.
4. A log showing hours of operations shall be maintained on the premises for at least two (2) years and be made readily available for inspection by the District upon request. Log entries shall be made on a daily basis when the engine is operated.
5. This engine shall use only California vehicular diesel fuel. Records of California Diesel Fuel Certification shall be maintained on-site and made available to District personnel upon request.
6. Rule 50-visible emission limits: Air contaminant emissions shall not be more dense than 20% (or number 1 on Ringelmann chart) for more than three (3) minutes in any consecutive 60 minute period. Crankcase smoke shall also be in compliance with Rule 50.
7. Rule 51-public nuisance: Equipment shall not cause or contribute to public nuisance.
8. The owner or operator of each engine shall conduct periodic inspections of each engine and add-on control equipment to ensure that each engine is operated in compliance. Inspections shall be conducted at least once every 4,000 hours of operation, or every six months, whichever occurs first.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2001-APP-976428

PERMIT ID
APCD2005-PTO-030064

9. The owner or operator shall conduct periodic maintenance of each engine and add-on control equipment as recommended by the engine and control equipment manufacturers or as specified by any other maintenance procedure approved in advance, in writing, by the District.
10. The owner or operator of this engine shall keep the following records: Engine manufacturer name and model number; brake horsepower rating; combustion method (lean burn); fuel type (diesel); California Diesel Fuel Certification; and manual of recommended maintenance provided by the manufacturer, or other maintenance procedures as approved in writing, in advance, by the District. These records shall be kept on-site and made available to District personnel upon request for at least the same period of time as the engine to which the records apply Is.
11. The owner or operator of this engine shall maintain a log containing at a minimum, the following: Records of engine inspection, including dates inspection was performed and records of engine maintenance, including dates maintenance was performed with a description of the nature of the maintenance.
12. All records shall be kept on-site at least three years, unless otherwise indicated by the conditions of this permit, and made available to the District upon request.
13. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
14. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
15. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT

COMPLIANCE DIVISION
INSPECTION (1st-QUARTER) CHECKLIST
FEE CODE 34ABDG –STATIONARY INTERNAL COMBUSTION ENGINES

ID#: **00204** Permit #: **30064** Date of Inspection: **Thu-14-Nov-2013**

Facility: **BAE Systems, foot of Sampson St, SD 92113** Expiration Date: **September 2014**

Representative: **Cara Bandera** Title: **EHS Supervisor** Phone: **619-557-4209**

1. Equipment manufacturer, model and serial numbers match? YES, If no, explain: _____
2. Current permit /available? YES Ownership verified? YES
3. Fuel Used: CARB Diesel; Source: SoCo
4. Fuel Usage Limits: None
5. Liquid Fuel Sample Taken? ☐ Yes ☒ No ☐ N/A
   Sulfur content: No Sample Taken %
6. Current Hourly Meter Reading: 3,326.59, Limits: 1,000 hr/12 mths (consecutive)
7. Log book maintained? ☒ Yes ☐ No ☐ N/A
8. Rule 50 Visible Emissions Compliance? ☐ Yes ☐ No ☒ N/A
   Opacity: __ % (See V/E Evaluation Sheet)
9. Manual of recommended maintenance procedures as provided by the engine manufacturer, or other maintenance procedures as approved in writing by the Air Pollution Control Officer maintained onsite? YES (Required after November 15, 2002)
10. Periodic maintenance of the engine and control equipment (if applicable) as recommended by the engine manufacturer or as specified by any other maintenance procedures approved in writing by the Air Pollution Control Officer being done at least once each calendar year? YES (required after November 15, 2002) Describe: Equipment on maintenance schedule (monthly, quarterly, annual etc.).
11. Source Test History? N/A
12. Compliance Status with Rule 69.4.1, Describe: Compliant
13. Operating i.c.w. permit conditions? YES, Describe: _____
14. Notice to Comply issued? NO, NtC #, Rules and Description: _____
15. Notice of Violation issued? NO, NoV #, Rules and Description: _____
16. Review of permit conditions[R] No Changes Required - PO change form not submitted

Remarks: Inside POSD dry dock engine, 50 hrs 2012. Reviewed oil analysis reports.

Inspector: Miguel Reynoso Jauregui MRJ Date: 11/22/13

AQIII Initials: _____ Date: 12/19/13

[R] H&S 42301(e)

APCD/rev 05-2003

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD1993-NOV-201312	09/22/1993		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name *	Last Name	Full Name
APCD VIO Mailing			ARMANDO DEQUESADA

Relationship: --Select--
Title:
Organization Name: SOUTHWEST MARINE, INC.
Primary: Yes
Street Address: FOOT OF SAMPSON STREET
Business Phone: 6192361000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

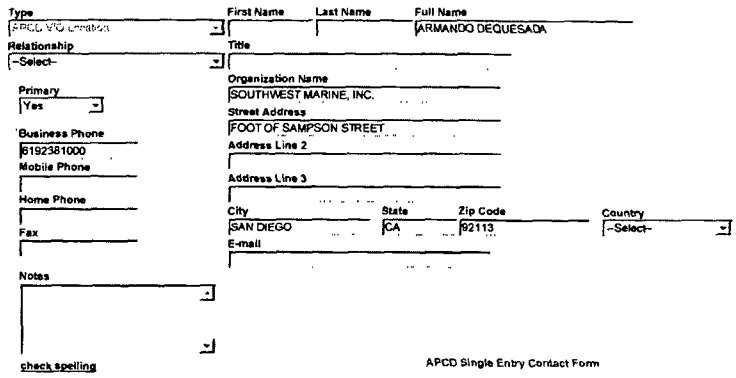
City	State	Zip Code	Country
SAN DIEGO	CA	92113	--Select--

Fax:
E-mail:
Notes:

check spelling

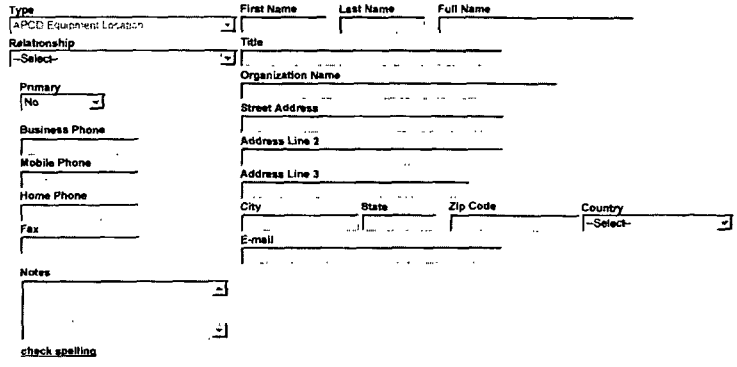
APCD VIO Location *(This section is not required.)*

Search As Contact



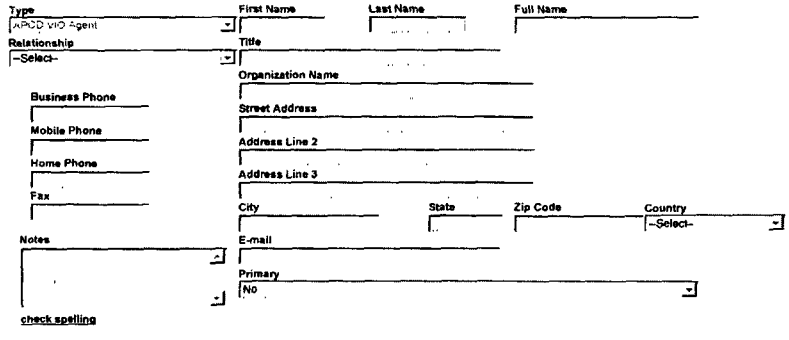
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21		Permit conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 201312

Asbestos Reference Number:

Complaint Reference Number:

Inspection Type [Method]: --Select--

Date NOV Issued: 09/22/1993

Date Violation began: 01/08/1993

Date Violation Ends:

Statute of Limitations:

Inspector: KW

Received by:

Title of recipient:

Certified Mailing Number:

Certified Mailing Date:

Return Receipt Received: Yes No

Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date:

File to CAI:

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 01/21/1994

1st Offer Amount: 400.00

Maximum Penalty: --Select--

1st offer comments

2nd Offer Letter Date: 03/04/1994

2nd Offer Amount

2nd offer comments

Referred to --Select-- **Hearing Board Number**

Date Case Referred **Date Complaint Filed** **Trial Date** **Judgment** Yes No **Judgment amount**

Case Number **Case comments**

Result FI **Date of Payment** 04/01/1994 **Final Date** 04/01/1994 **Civil Actions Investigator** --Select-- **Negotiated Amount** 250 00

Legacy Data

Disposition MS **Disposition Comments** REDUCED FEE

Method AI

APCD NOV Form - Rev July 2012

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2005-PTO-030064		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				D
APCD2001-APP-975428		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	05/16/2001	AFS	M		M
APCD1994-APP-930850		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	04/11/1994	EDAVIS1	COSD/LUEG .		M
APCD1993-NOV-201312		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/22/1993				

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2005-PTO-030061	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes
Boiler: York Shipley, Model SPHV-300-N/2-200132

Detailed Description
Boiler: York Shipley, Model SPHV-300-N/2-200132, S/N A578-3458W,10.8 MMBTU/hour heat input, fired with natural gas (951083 EAD Oct 1997)(970418 CCN Oct 1997)

check spelling

Entered by Division (Current Division)	Entered/Updated by: * (Current User)	Entered Date
APCD Permit Processing	--Select--	

Division (Current Division)	Assigned to: (Current User)	Invoiced	Paid	Balance
--Select--	--Select--	3,334.00	3,334.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/30/2013	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location	Director of	Environmental Ser	Director of Environmental Services

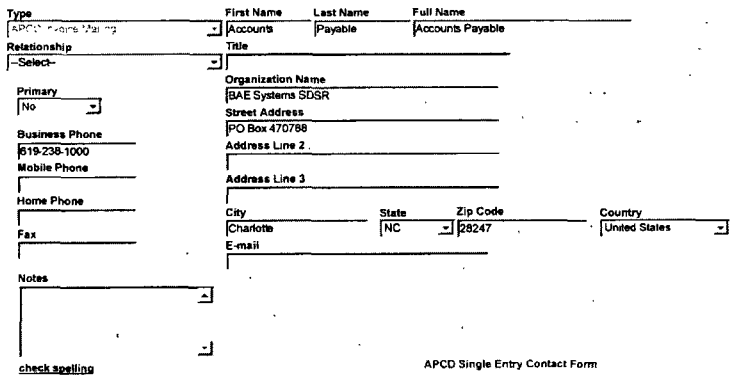
Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE Systems SDSR
Business Phone: 619-238-1000
Street Address: 2205 E Belt St
Mobile Phone:
Address Line 2: Foot of Sampson St
Home Phone:
Address Line 3:
Fax:
City: San Diego
State: CA
Zip Code: 92113
Country: United States
E-mail:

Notes

check spelling

APCD Invoice Mailing *(This section is not required)*

Search As Contact



Type: APCD Single Mailing | First Name: Accounts | Last Name: Payable | Full Name: Accounts Payable
Relationship: --Select-- | Title:
Primary: No | Organization Name: BAE Systems SDSR
Business Phone: 619-238-1000 | Street Address: PO Box 470788
Mobile Phone: | Address Line 2:
Home Phone: | Address Line 3:
Fax: | City: Charlotte | State: NC | Zip Code: 28247 | Country: United States
E-mail:
Notes:
check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required.)*

Search As Contact

Type: APCD PTO Mailing | First Name: Director of | Last Name: Environmental S | Full Name: Director of Environmental Services
Relationship: --Select-- | Title:
Primary: No | Organization Name: BAE Systems SDSR
Business Phone: 619-238-1000 | Street Address: 2205 E Belt
Mobile Phone: | Address Line 2: Foot of Sampson
Home Phone: | Address Line 3:
Fax: | City: San Diego | State: CA | Zip Code: 92113 | Country: --Select-
E-mail:
Notes:
check spelling

- Permit to Operate

Permit Description: Boiler: York Shipley, Model SPHV-300-N/2-200132, S/N A578-3458W 10.8 MMBTU/hour heat input, fired with natural gas. (851083 EAD Oct 1997)(970418 CCN Oct 1997)
check spelling

Renewal Information
Expiration Month: 10/2013 | Delinquent Month:

Source Test Information
Source Test Required: ○ Yes ○ No
Source Test Alias:
Source Test Frequency: --Select--
Remarks:

BEC: 10915 | Type - [Portable/Stationary]: --Select-- | Legacy Data
Throughput: | Unit of Measure: | Inspection Frequency: --Select-- | Legacy Reference ID: 30061
Capacity: | Unit of Measure 2: | Inspection Date: | Legacy BEC: 10915

RSI APCD_PER Ver Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units(Number)* Equipment Type* Assess on Renewal*

☐ 1	[13A] Boiler/Heater	◉ Yes ○ No	

VERSION HISTORY Add Delete CSV Export

Version Number(Number)*	Revision Date*	Application(Text)	Site(Text)	Reason	Notes(Text)
☐ 1	07/02/2010	APCD1997-APP-970418	APCD1980-SITE-00204	Renewal	2010
☐ 2	03/10/2011	APCD1997-APP-970418	APCD1980-SITE-00204	Renewal	2011
☐ 3	02/01/2012	APCD1997-APP-970418	APCD1980-SITE-00204	Renewal	2012

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text)	Test Type(Text)	Annual Retest(Text)	Pass or Fail(Text)	Notification Date	Scheduled Test Date	Actual Test Date	Transaction Date	TDR Results	Repair dat

Parcel *(This section is not required.)*

Search Delete Get Address & Owner Set Primary GIS

Primary	Parcel #	Book	Page	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Legal Descrip

0 record(s) found.

Address *(This section is not required.)*

New Search Delete Get Parcel & Owner Set Primary GIS

Primary	Street # (start)	Direction	Street Name	Street Type	City	State	Zip Code	Address Status	Street Suffix (Direction)	Unit Type	Unit # (start)
☐	NA										

Related Records

« < 1 > »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD2005-PTO-030061	Boiler: York Shipla	LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				B
APCD1997-APP-970418		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	09/29/1997	Camqui Nguyen	COSD/LUEG		B
APCD1996-APP-951083		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	05/31/1996	Camqui Nguyen	COSD/LUEG		M

« < 1 > »

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2005-APP-030067

PERMIT ID
APCD2005-PTO-030067

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

DIESEL ENGINE, DETROIT MODEL 16V-149T1, 900 KW, #2 DIESEL FUELED, S/N 16E0007582, LOCATED IN ENGINE #2 FLOATING DRY DOCK (AP #930850 EAD 7/18/95) (AP #976431 EAD 8/1/05)

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34D] Engine for Non-Emergency & Non-Cogeneration

BEC: 12302

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. The engine hour meter shall be maintained in good working order and used for recording operating hours in the daily log. The compliance section at the District shall be notified prior to an hour meter replacement.
2. Fuel samples may be obtained from the site by District personnel at anytime for analysis, at the permittee's expense, to determine compliance with fuel quality requirements.
3. Operation of this engine shall not exceed 1000 hours per 12 consecutive month period.
4. A log showing hours of operations shall be maintained on the premises for at least two (2) years and be made readily available for inspection by the District upon request. Log entries shall be made on a daily basis when the engine is operated.
5. This engine shall use only California vehicular diesel fuel. Records of California Diesel Fuel Certification shall be maintained on-site and made available to District personnel upon request.
6. Rule 50-visible emission limits: Air contaminant emissions shall not be more dense than 20% (or number 1 on Ringelmann chart) for more than three (3) minutes in any consecutive 60 minute period. Crankcase smoke shall also be in compliance with Rule 50.
7. Rule 51-public nuisance: Equipment shall not cause or contribute to public nuisance.
8. The owner or operator of each engine shall conduct periodic inspections of each engine and add-on control equipment to ensure that each engine is operated in compliance. Inspections shall be conducted at least once every 4,000 hours of operation, or every six months, whichever occurs first.

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10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
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Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2005-APP-030067

PERMIT ID
APCD2005-PTO-030067

9. The owner or operator shall conduct periodic maintenance of each engine and add-on control equipment as recommended by the engine and control equipment manufacturers or as specified by any other maintenance procedure approved in advance, in writing, by the District.
10. The owner or operator of this engine shall keep the following records: Engine manufacturer name and model number; brake horsepower rating; combustion method (lean burn); fuel type (diesel); California Diesel Fuel Certification; and manual of recommended maintenance provided by the manufacturer, or other maintenance procedures as approved in writing, in advance, by the District. These records shall be kept on-site and made available to District personnel upon request for at least the same period of time as the engine to which the records apply to.
11. The owner or operator of this engine shall maintain a log containing at a minimum, the following: Records of engine inspection, including dates inspection was performed and records of engine maintenance, including dates maintenance was performed with a description of the nature of the maintenance.
12. All records shall be kept on-site at least three years, unless otherwise indicated by the conditions of this permit, and made available to the District upon request.
13. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
14. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
15. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT

COMPLIANCE DIVISION
INSPECTION (1st-QUARTER) CHECKLIST
FEE CODE 34ABDG –STATIONARY INTERNAL COMBUSTION ENGINES

ID#: **00204** Permit #: **2005-PTO-30067** Date of Inspection: **Thu-14-Nov-2013**

Facility: **BAE Systems, foot of Sampson St, SD 92113** Expiration Date: **September 2014**

Representative: **Cara Bandera** Title: **EHS Spvsr.** Phone: **619-557-4209**

1. Equipment manufacturer, model and serial numbers match? YES, If no, explain: ____
2. Current permit /available? YES Ownership verified? YES
3. Fuel Used: CARB Diesel; Source: SoCo
4. Fuel Usage Limits: None
5. Liquid Fuel Sample Taken? ☐ Yes ☒ No ☐ N/A
   Sulfur content: No Sample Taken %
6. Current Hourly Meter Reading: 3,325.82, Limits: 1,000/12 mths
7. Log book maintained? ☒ Yes ☐ No ☐ N/A
8. Rule 50 Visible Emissions Compliance? ☐ Yes ☐ No ☒ N/A
   Opacity: __% (See V/E Evaluation Sheet)
9. Manual of recommended maintenance procedures as provided by the engine manufacturer, or other maintenance procedures as approved in writing by the Air Pollution Control Officer maintained onsite? YES (Required after November 15, 2002)
10. Periodic maintenance of the engine and control equipment (if applicable) as recommended by the engine manufacturer or as specified by any other maintenance procedures approved in writing by the Air Pollution Control Officer being done at least once each calendar year? YES (required after November 15, 2002) Describe: Equipment on maintenance schedule (monthly, quarterly, annual, etc.)
11. Source Test History? N/A
12. Compliance Status with Rule 69.4.1, Describe: Compliant
13. Operating i.c.w. permit conditions? YES, Describe: ____
14. Notice to Comply issued? NO, NtC #, Rules and Description: ____
15. Notice of Violation issued? NO, NoV #, Rules and Description: ____
16. Review of permit conditions[R] No Changes Required - PO change form not submitted

Remarks: Inside POSD dry dock engine, 34 hrs 2012. Reviewed oil analysis reports.

Inspector: Miguel Reynoso Jauregui MRJ Date: 11/22/13

AQIII Initials: _____ Date: 11/25/13

[R] H&S 42301(e)

APCD/rev 05-2003

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD1993-NOV-201313	09/21/1993		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			SOUTHWEST MARINE, INC.

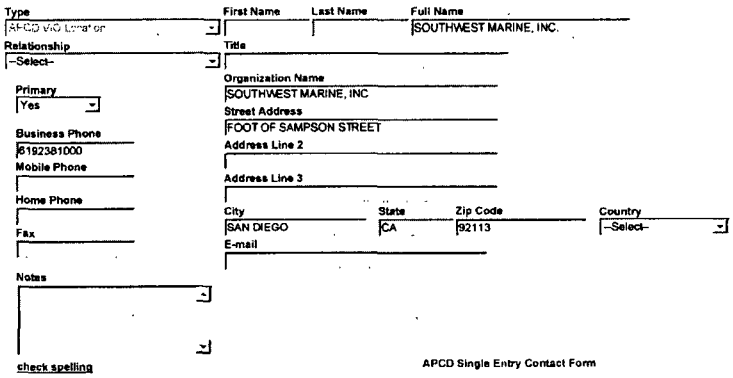
Relationship: -Select-
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE, INC
Street Address: FOOT OF SAMPSON STREET
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	-Select-

Fax:
E-mail:
Notes:
check spelling

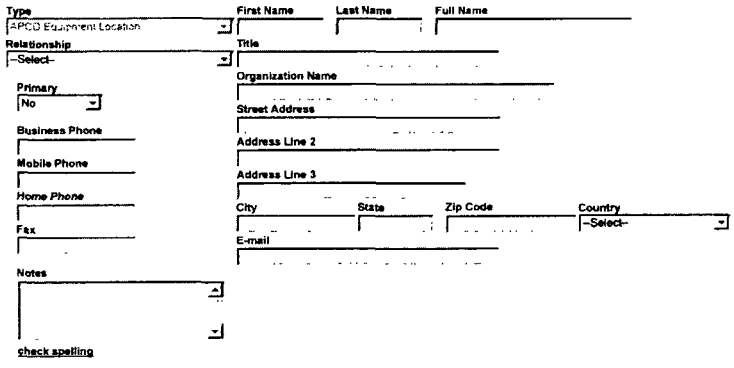
APCD VIO Location *(This section is not required.)*

Search As Contact



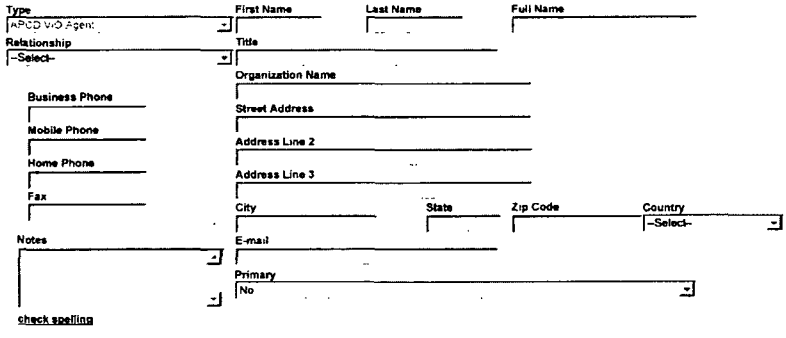
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(T
21		Permit conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 201313
Asbestos Reference Number:
Complaint Reference Number:

Inspection Type [Method]: --Select--
Date NOV issued: 09/21/1993
Date Violation began: 06/14/1993
Date Violation Ends:
Statute of Limitations:

Inspector: KW
Received by:
Title of recipient:

Certified Mailing Number:
Certified Mailing Date:
Return Receipt Received: Yes No
Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No
Pollutant that makes TV/SM: --Select--

PSD: Yes No
Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:
Response Acknowledgement Letter: --Select--
Acknowledgement Letter Date:
File to CAI:

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 01/21/1994
1st Offer Amount: 400.00
Maximum Penalty: --Select--

1st offer comments

2nd Offer Letter Date: 03/04/1994
2nd Offer Amount:

2nd offer comments

Referred to: - Select -

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment: Yes / No

Judgment amount

Case Number

Case comments

Result: FI

Date of Payment: 04/01/1994

Final Date: 04/01/1994

Civil Actions Investigator: - Select -

Negotiated Amount: 250 00

Legacy Data

Disposition: MS

Disposition Comments: REDUCED FEE

Method: AI

APCD NOV Form - Rev July 2012

Related Records

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2005-PTO-030067		*LUEG-APCD/Administrative/Permit To Operate/NA*	*Active*	*07/31/2009*				D
APCD1994-APP-930850		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	04/11/1994	EDAVIS1	COSD/LUEG		M
APCD1993-NOV-201313		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/21/1993				

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COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2009-APP-987982

PERMIT ID
APCD2010-PTO-000658

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

Fiberglass reinforced plastic machining booth (Booth A) with dimensions 40 ft long, 8 ft wide, and 8 ft high, using various hand machining tools including but not limited to: Dewalt drill, Model: DC930, S/N: 925285; Porter Cable router, Model: 75192, S/N: 038500; Porter Cable sander, Model: 362, S/N: 160383; Skillsaw circular saw, Model: 77, S/N: HC-862860; vented to Donaldson Torit dust collector, Model: DF04-16, S/N: TG926496, containing eight MERV 13 cartridge filters. (APCD2009-APP-987982/CCN/Sep 2010)

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [36A] Grinding Booth or Room

BEC: APCD2010-CON-000208

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Air pollution control equipment shall be maintained in good operating condition and shall be in full operation in accordance with manufacturer's instructions at all times when the process equipment is in operation.
2. All process and storage equipment with air pollution control equipment shall be maintained and operated so that there is no leakage (0% opacity during operation and free of accumulated dust when not in operation) of air contaminants to the atmosphere prior to their treatment in the air pollution control system.
3. The doors to the fiberglass processing room shall remain closed whenever the equipment is in operation.
4. The floor of the fiber glass machining areas shall be vacuumed each day of operation, and measures shall be taken to prevent carrying out of dust from the work areas.
5. A differential pressure gauge shall be installed across the dust collector filter media and maintained in good working order at all times to measure the pressure drop across the filters. The pressure drop across the filter media shall be maintained between 0.1 and 7 inches of water. The gauge readings shall be noted in an equipment logbook on each day of equipment use. The logbook shall be kept on site and made available to the district upon request.
6. Air ducts and the air pollution control device shall be inspected, cleaned and repaired no less frequently than on 6 month intervals. The date that equipment is inspected, cleaned or repaired shall be recorded in an inspection/maintenance log book, which shall be made available to the District upon request.

7. The removal and cleaning of the filters and screens, and the disposal of the dust, shall be done in a careful manner to minimize dust emissions to the atmosphere.
8. All fiberglass particulate collected for disposal shall be stored in a sealed container pending disposal. There shall be no open disposal of fiberglass particulate.
9. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
10. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
11. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 36 – GRINDING BOOTHS AND ROOMS

Company Name (d.b.a.): BAE Systems, foot of Sampson St, SD 92113

Company Representative: Cara Bandera Title: Env. Supervisor

Id #: 00204 Permit #: 658 Date of Expiration: 9/14

Date of Inspection: 2/21/14

EQUIPMENT DESCRIPTION

1. Equipment same as described on permit to operate? YES ☒ Yes ☐ No
   If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No
   Description of changes:

2. Are permit conditions current and enforceable? YES ☒ Yes ☐ No
   (If no, complete permit condition change request and describe changes in the comments section)
3. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No
4. Ownership verified? YES ☒ Yes ☐ No

EQUIPMENT INSPECTION

5. Control Equipment Operating? YES ☒ Yes ☐ No ☐ N/A
6. Rule 50 Visible Emissions Compliance? YES ☒ Yes ☐ No ☐ N/A
   If no, Opacity: ___ % *(See V/E Evaluation Sheet)*
7. Operating i.c.w. Rule 51 (Nuisance) YES ☒ Yes ☐ No ☐ N/A

COMPLIANCE ACTIONS

8. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. ____
   Rules:
   List NTC items below:

9. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. ____
   Rules:
   List NOV items below:

Additional Comments: Additional ΔP requirement for dust collector of 0.1" - 7" h20. Booth used January 2013 pressure gauge recorded @ 1.6 "h20. Maintenance records reviewed. Filters changed 2/3/13. Conditions only apply to grinding of glass reinforced plastic (GRP) and do not apply to grinding, cutting, sawing of non-fiberglass material (e.g. NOMEX).

Fiberglass Grinding Booth A

Inspectors signature Miguel Reynoso Jauregui MRJ Date of Report: 2/27/14

AQIII Initials: _____ Date: _____

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 36 – GRINDING BOOTHS AND ROOMS

Company Name (d.b.a.): BAE Systems, foot of Sampson St, SD 92113

Company Representative: Cara Bandera Title: Env. Supervisor

Id #: 00204 Permit #: 658 Date of Expiration: 9/14

Date of Inspection: 5/14/14

EQUIPMENT DESCRIPTION

1. Equipment same as described on permit to operate? YES ☒ Yes ☐ No
   If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No
   Description of changes: _____
2. Are permit conditions current and enforceable? YES ☒ Yes ☐ No
   (If no, complete permit condition change request and describe changes in the comments section)
3. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No
4. Ownership verified? YES ☒ Yes ☐ No

EQUIPMENT INSPECTION

5. Control Equipment Operating? YES ☒ Yes ☐ No ☐ N/A
6. Rule 50 Visible Emissions Compliance? YES ☒ Yes ☐ No ☐ N/A
   If no, Opacity: ___ % *(See V/E Evaluation Sheet)*
7. Operating i.c.w. Rule 51 (Nuisance) YES ☒ Yes ☐ No ☐ N/A

COMPLIANCE ACTIONS

8. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____
   Rules: _____
   List NTC items below:
9. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____
   Rules: _____
   List NOV items below:

Additional Comments: Additional ΔP requirement for dust collector of 0.1" - 7" h20. Booth used January 2013 pressure gauge recorded @ 1.6 "h20. Maintenance records reviewed. Filters changed 2/3/13. Conditions only apply to grinding of glass reinforced plastic (GRP) and do not apply to grinding, cutting, sawing of non-fiberglass material (e.g. NOMEX). Site obtained written conformation from District acknowledging NOMEX is non-fiberglass material.

Fiberglass Grinding Booth A

Inspectors signature Miguel Reynoso Jauregui MRJ Date of Report: 5/15/14

AQIII Initials: Jimmie Cooksey Date: June 4, 2014

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2009-APP-988094

PERMIT ID
APCD2010-PTO-000659

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

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The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

Fiberglass reinforced plastic machining booth (Booth B) with dimensions 23 ft long, 10 ft wide, and 8 ft high, using various hand machining tools including but not limited to: Dewalt drill, Model: DC930, S/N: 925285; Porter Cable router, Model: 75192, S/N: 038500; Porter Cable sander, Model: 362, S/N: 160383; Skillsaw circular saw, Model: 77, S/N: HC-862860; vented to Donaldson Torit dust collector, Model: DF04-16, S/N: TG926496, containing eight MERV 13 cartridge filters. (APCD2009-APP-988094/CNN/Sep 2010)

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [36A] Grinding Booth or Room

BEC: APCD2010-CON-000208

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Air pollution control equipment shall be maintained in good operating condition and shall be in full operation in accordance with manufacturer's instructions at all times when the process equipment is in operation.
2. All process and storage equipment with air pollution control equipment shall be maintained and operated so that there is no leakage (0% opacity during operation and free of accumulated dust when not in operation) of air contaminants to the atmosphere prior to their treatment in the air pollution control system.
3. The doors to the fiberglass processing room shall remain closed whenever the equipment is in operation.
4. The floor of the fiber glass machining areas shall be vacuumed each day of operation, and measures shall be taken to prevent carrying out of dust from the work areas.
5. A differential pressure gauge shall be installed across the dust collector filter media and maintained in good working order at all times to measure the pressure drop across the filters. The pressure drop across the filter media shall be maintained between 0.1 and 7 inches of water. The gauge readings shall be noted in an equipment logbook on each day of equipment use. The logbook shall be kept on site and made available to the district upon request.
6. Air ducts and the air pollution control device shall be inspected, cleaned and repaired no less frequently than on 6 month intervals. The date that equipment is inspected, cleaned or repaired shall be recorded in an inspection/maintenance log book, which shall be made available to the District upon request.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2009-APP-988094

PERMIT ID
APCD2010-PTO-000659

7. The removal and cleaning of the filters and screens, and the disposal of the dust, shall be done in a careful manner to minimize dust emissions to the atmosphere.
8. All fiberglass particulate collected for disposal shall be stored in a sealed container pending disposal. There shall be no open disposal of fiberglass particulate.
9. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
10. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
11. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 36 – GRINDING BOOTHS AND ROOMS

Company Name (d.b.a.): BAE Systems, foot of Sampson St, SD 92113

Company Representative: Cara Bandera Title: Env. Spvsr.

Id #: 00204 Permit #: 659 Date of Expiration: 9/14

Date of Inspection: 11/14/13

EQUIPMENT DESCRIPTION

1. *Equipment same as described on permit to operate?* YES ☒ Yes ☐ No
   If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No
   Description of changes: _____

2. Are permit conditions current and enforceable? YES ☒ Yes ☐ No
   (If no, complete permit condition change request and describe changes in the comments section)
3. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No
4. Ownership verified? YES ☒ Yes ☐ No

EQUIPMENT INSPECTION

5. Control Equipment Operating? UTD ☐ Yes ☐ No ☐ N/A
6. Rule 50 Visible Emissions Compliance? YES ☒ Yes ☐ No ☐ N/A
   If no, Opacity: ___ % *(See V/E Evaluation Sheet)*
7. Operating i.c.w. Rule 51 (Nuisance) YES ☒ Yes ☐ No ☐ N/A

COMPLIANCE ACTIONS

8. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____
   Rules: _____
   List NTC items below:

9. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____
   Rules: _____
   List NOV items below:

Additional Comments: Additional ΔP requirement for dust collector of 0.1" - 7" h20.

Maintenance records reviewed. Filters changed 2/3/13. No use since last inspection August 2013.

Inspectors signature Miguel Reynoso Jauregui MRJ Date of Report: 11/22/13

AQIII Initials: Date: 12/11/2013

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2003-PTO-020206	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description

ABRASIVE HANDLING SYSTEM, ELEVATED STEEL STORAGE TANK, 11- DIA X23'H, ENCLOSED BUCKET ELEVATOR(15-TONS/HR RATED CAPACITY),SHROUDED TRANSFER POINTS; DUST CONTROL FILTER SYSTEM,FILTERED TANK VENT, RAIL LOADOUT SYSTEM (APPL #20208/AS)
0584 NO APP

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	180.00	180.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2002	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship -Select-

Title

Primary Yes

Organization Name BAE SYSTEMS SAN DIEGO SHIP REPAIR INC

Street Address FOOT OF SAMPSON ST

Business Phone 6192381000

Address Line 2

Mobile Phone

Address Line 3

Home Phone

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	-Select-

Fax 6195950459

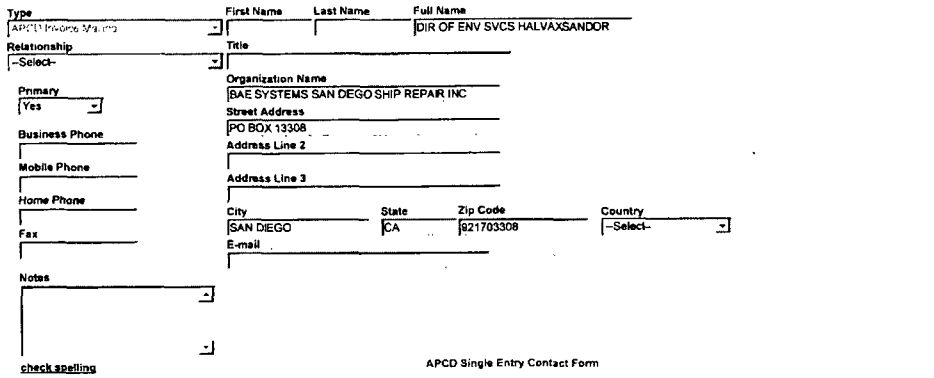
E-mail

Notes

check spelling

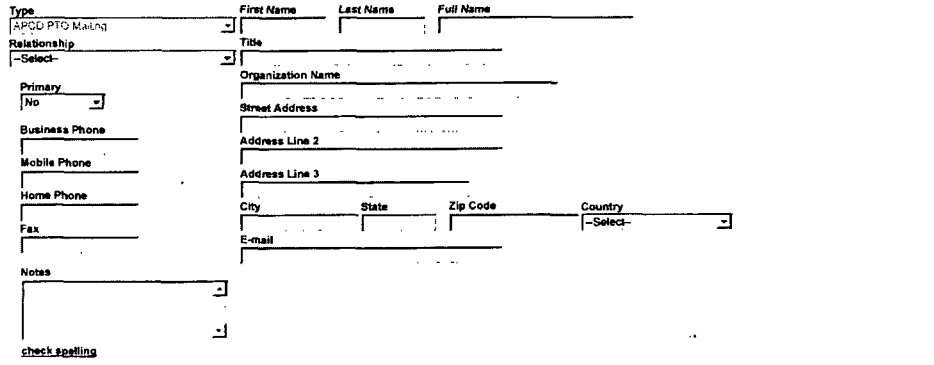
APCD Invoice Mailing *(This section is not required)*

Search As Contact

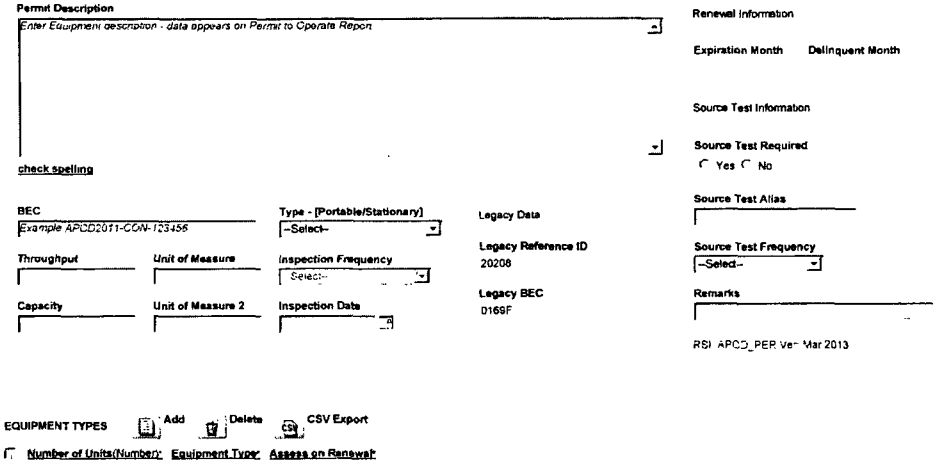


APCD PTO Mailing *(This section is not required.)*

Search As Contact



- Permit to Operate



VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair det

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction -Select- Street Name Street Type -Select-

City State Zip Code Address Status -Select- Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

-Select-

Related Records

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG ..		
APCD2010-CER-000226	New app for existin	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG ..		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG...		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041062		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD1993-NOV-201318	09/22/1993		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			SOUTHWEST MARINE, INC.

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE, INC.
Street Address: FOOT OF SAMPSON STREET
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO
State: CA
Zip Code: 92113
Country: --Select--
Fax:
E-mail:
Notes:

check spelling

APCD VIO Location *(This section is not required.)*

Search As Contact

Type	First Name	Last Name	Full Name
APCD VIO Location			SOUTHWEST MARINE, INC.

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE, INC.
Street Address: FOOT OF SAMPSON STREET
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO
State: CA
Zip Code: 92113
Country: --Select--
Fax:
E-mail:
Notes:

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: -Select- | Title
Primary: No | Organization Name
Street Address
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City | State | Zip Code | Country: -Select-
Fax | E-mail
Notes
check spelling

APCD VIO Agent *(This section is not required.)*

Search As Contact

Type: APCD VIO Agent | First Name | Last Name | Full Name
Relationship: -Select- | Title
Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: -Select-
Notes | E-mail
Primary: No
check spelling

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
10(b)		Operating Without Permission,	
10(a)		No Authority to Construct	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 201318 | *Asbestos Reference Number* | *Complaint Reference Number*

Inspection Type [Method]: Select | Date NOV Issued: 09/22/1993 | Date Violation began: 08/24/1993 | Date Violation Ends | Statute of Limitations

Inspector | Received by | Title of recipient

KW

Certified Mailing Number | Certified Mailing Date | Return Receipt Received (Yes / No) | Return Receipt Received Date

Title V
Yes / No

Synthetic Minor (Yes / No) | Pollutant that makes TV/SM: --Select--

PSD
Yes / No | Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved | Response Acknowledgement Letter: --Select-- | Acknowledgement Letter Date | File to CAI

Senior Inspector Comments

check spelling

Settlement Details

HPV
Yes / No

1st Offer letter Date: 01/21/1994 | 1st Offer Amount: 150 00 | Maximum Penalty: --Select--

1st offer comments

2nd Offer Letter Date: 03/04/1994 | 2nd Offer Amount

2nd offer comments

Referred to: Select | Hearing Board Number

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (Yes / No) | Judgment amount

Case Number | Case comments

Result: FI | Date of Payment: 04/01/1994 | Final Date: 04/01/1994 | Civil Actions Investigator: --Select-- | Negotiated Amount

Legacy Data

Disposition: MS | Disposition Comments

Method: AI

APCD NOV Form - Rev July 2012

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD1993-APP-930299		LUEG-APCD/Administrative/Legacy Data/Uncategorized	C	10/11/1993	CW	M		M
APCD1993-NOV-201318		LUEG-APCD/Compliance/Notice of Violation/NA						

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2010-APP-001243

PERMIT ID
APCD2005-PTO-006646

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

May operate marine coating facility consisting of:
Marine coating operations to apply coatings on ships and related structures intended for exposure to a marine environment at BAE Systems San Diego Ship Repair's facility including: 3 piers up to 700 feet in length, one 22,000-ton floating dry dock, various open paint areas, and temporary structures of various sizes.

Equipment required when spray applying any coatings that contain Cr, Pb, Mn, Ni, Cd, As, or Be: either a structure with a full roof and at least three complete walls or complete side curtains or a mobile ventilated structure as defined in this permit to operate. These structures shall be equipped with high efficiency filters in compliance with this permit and shall ensure that air is drawn into the structure when in use.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [27B] Marine Coating

BEC: 0737A

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. At no time shall the subject equipment cause or contribute to a nuisance as specified in District Rule 51. If compliance with Rule 51 cannot be demonstrated to the satisfaction of the District, the applicant will take whatever corrective action necessary to meet applicable requirements. If corrective action requires any physical change or modification to the subject equipment, the applicant shall receive prior District approval by applying for and obtaining an Authority to Construct for all such modifications. (Rule 51)
2. All marine coating operations conducted at this stationary marine coating source shall be conducted under a valid stationary Permit to Operate (PTO). For the purposes of this condition, a stationary marine coating source (SIC 3731) is a piece of land or contiguous pieces of land under common ownership or entitlement to use, where the combined usage of marine coatings is greater than 20 gallons in any consecutive 12-month period or the combined VOC emissions from marine coating operations are greater than 150 pounds in any consecutive 12-month period. Portable equipment shall not supplant or supplement the primary activity of a stationary source as described by the source's Standard Industrial Classification Code (SIC).

3. All equipment associated with air contaminant emissions from this operation or that affects the air contaminant emissions shall not deviate from the above equipment description. The permittee shall submit an application to the District and wait for approval in writing prior to modifying any such equipment. (Rule 10)
4. Permittee shall only apply coatings using one of the following methods: High Volume Low Pressure (HVLP) spray application, airless spray gun, electrostatic spray application, dip coat, roll coat or hand application methods (brushes, rollers, markers, marking pens, etc.). Alternatively, an equivalent application method that has been approved by the District in writing might be used. (Rule 20.2)
5. The total Volatile Organic Compound (VOC) emissions from this operation shall not exceed an average of 3000 pounds per day. The average daily emissions shall be calculated by dividing the total VOC emissions in a calendar month by the number of days on which coating operations are conducted in that calendar month. (Rule 20.3)
6. Total emissions of Volatile Organic Compounds (VOC) from all marine coating equipment operated under this permit to operate shall not exceed 40 tons in any consecutive 12 months (Rule 20.3).
7. Curtains or shroudings shall be used during painting operations when wind speed exceeds 10 miles / hour.
8. Marine coating operations shall comply with all applicable requirements of Rule 67.18. (Rule 67.18)
9. The VOC content of non-specialty coatings for marine coating operations subject to Rule 67.18 shall not contain more than 340 grams per liter VOC for air dried coatings and not more than 275 grams per liter for baked coatings. (Rule 67.18)
10. Marine surface preparation materials shall meet one of the following requirements:
    a) the VOC content does not exceed 200 grams per liter (1.67 pounds per gallon), as applied; or
    b) the initial boiling point is at least 190° C (374° F); or
    c) the total VOC vapor pressure is 45 mm Hg or less at 20° C (68° F).
    (Rule 67.18)
11. Cleaning of equipment used in marine coating operations shall meet one of the following requirements:
    a) the application equipment or equipment parts are cleaned in a container which is open only when being accessed for adding, cleaning, or removing application equipment or when cleaning materials is being added, provided the cleaned equipment or equipment parts are drained to the container until dripping ceases, or
    b) a system that totally encloses the component parts being cleaned during the washing, rinsing, and draining processes, or
    c) a device, approved prior to use by the Air Pollution Control Officer, which has been demonstrated to be as effective as any of the equipment described above in minimizing VOC emissions to the atmosphere.
    (Rule 67.18 and 20.3)
12. The Permittee shall maintain record keeping for marine coating operations in accordance with Rule 67.18 and this permit to operate. The records shall contain, at a minimum, the following information:
    a) current list of coatings, coating components (bases, catalysts, thinners, etc.), surface preparation materials and equipment cleaning materials in use. Materials shall be identified as follows:
    1. coatings shall specify category as per Rule 67.18(D)(1) or 67.18(D)(2) manufacturer name, manufacturer identification, VOC content and mix ratio;
    2. coating components shall specify manufacturer name, identification, VOC content and mix ratio;
    3. surface preparation materials and equipment cleaning materials shall specify manufacturer name and manufacturer identification (VOC content, vapor pressure and boiling point shall be listed as applicable);
    4) current documentation to demonstrate applicability of any specialty coating category pursuant to Rule 67.18(D)(2);
    b) current Material Safety Data Sheets (MSDS) or manufacturer's specifications for all materials containing VOCs and/or TACs. MSDS and manufacturer's specifications shall, at minimum, contain the following information: VOC content weight or weight percentage, TAC content weight or weight percentage and material density (weight per volume) or material specific gravity (material density relative to the density of water);
    c) type of application equipment used;
    d) daily or monthly usage records shall be kept for all materials containing VOC. If monthly records are maintained, the number of operating days per calendar month shall be recorded; and,
    e) daily or monthly VOC emissions.

13. All records required by this permit, including emission and usage records, shall be maintained on site for at least five (5) years and made readily available to the District upon request. (MACT HHHHHH)
14. All materials containing Volatile Organic Compounds shall be stored in closed containers in accordance with Rule 67.17 requirements. (Rule 67.17)
15. All chemical strippers that contain methylene chloride (MeCl CAS 75-09-2) shall be stored in closed containers. (MACT HHHHHH)
16. The permittee shall comply with the requirements in conditions 18 through 25 when spray applying any coating containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd), to any part or product made of metal or plastic, or combinations of metal and plastic. For the purposes of this condition, spray application means coatings that are applied using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. Spray-applied coatings do not include the following materials or activities: coatings applied from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters) or surface coating application using powder coating, hand-held, non-refillable aerosol containers, or non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electro deposition coating, web coating, coil coating, touch-up markers, or marking pens. (MACT HHHHHH).
17. The permittee shall comply with the requirements in conditions 18 and 19 when spray applying any coating containing beryllium (Be) or arsenic (As). For the purposes of this condition spray applied means using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. Spray-applied coatings do not include the following materials or activities: surface coating application using powder coating, hand-held or non-refillable aerosol containers, and non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electro deposition coating, web coating, coil coating, touch-up markers, and marking pens. (Rule 1200)
18. Spray application of materials containing chromium, lead, manganese, nickel, cadmium, beryllium or arsenic shall only occur within a structure that meets the following requirements:
    a) ventilated so that air is drawn into the structure, and
    b) equipped with filters that achieve 98% capture efficiency, and
    c) equipped with full roof and at least three complete walls or complete side curtains, or
    d) a mobile ventilate structure, which encloses and, if necessary, seals against the surface around the area being coated such that paint overspray is retained within the structure and directed to the filter.
    (MACT HHHHHH / Rule 1200)
19. The filter used for the coating operation described above shall achieve at least 98% capture efficiency of paint overspray in accordance with one of the following test methods:
    a) American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Standard 52.1, "Gravimetric and Dust-Spot Procedures for Testing Air-Cleaning Devices Used in General Ventilation for Removing Particulate Matter, June 4, 1992"; or
    b) ASHRAE Standard 52.2 "Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size" with manufacturer equivalency data that states ASHRAE Standard 52.1 Arrestance of at least 98%;or,
    c) any other test conducted using all of the following parameters:
    1. paint description: high solids baking enamel; and
    2. spray feed rate: at least 135 grams per minute; and
    3. paint spray method: conventional (non-HVLP) air-atomized spray gun operating at 40 pounds per square inch (psi) air pressure; and
    4. air flow rate across the filter: 150 feet per minute.
20. All paint spray gun cleaning must be done so that an atomized mist or spray of gun cleaning solvent and paint residue is not created outside of the container that collects used gun cleaning solvent. (MACT HHHHHH)
21. All painters must complete a training course that meets the requirements specified in the following condition within 180 days after hiring or 180 days after the Construction Completion Notice is submitted to the District, whichever is later. This certification will be valid for five (5) years. A refresher course must be completed for re-certification every five (5) years. (MACT HHHHHH)

22. The painters training course shall include at a minimum hands-on demonstration and classroom instruction in:
a) selection, set up, and operation of spray gun equipment, including measuring coating viscosity, selecting proper fluid tip or nozzle, and achieving the proper spray pattern, air pressure and volume, and fluid delivery rate; and,
b) spray techniques for different types of coatings to improve transfer efficiency and minimize coating usage and overspray, including maintaining the correct spray gun distance and angle to the substrate, using proper banding and overlap, and reducing lead and lag spraying at the beginning and end of each stroke; and,
c) routine spray booth and filter maintenance, including filter selection and installation.
(MACT HHHHHH)

23. The permittee shall submit a report to the District every calendar year in which information previously submitted has changed. This report should include changes associated with the initial notification required by §63.11175(a), or Notification of Compliance, or a previous annual notification of changes report submitted under this condition. This report shall include any deviations from relevant requirements under § 63.11173 (e) - (g), which includes:
a) proper training of all painters;
b) use of proper application equipment (e.g. HVLP);
c) use of spray booth when coatings are applied, with proper ventilation and filters;
d) proper cleaning of application equipment.
(MACT HHHHHH)

24. The annual notification of changes report must be submitted to the District prior to March 1 of each calendar year when *reportable changes have occurred and must include the following information:*
a) the company's name and the street address (physical location) and the street address where compliance records are maintained, if different;
b) the name, title, address, telephone, e-mail address (if available) and signature of the owner and operator, or other certifying company official, certifying the truth, accuracy, and completeness of the notification;
c) a statement of whether the source has complied with all the relevant standards and other requirements of this permit or an explanation of any noncompliance and a description of corrective actions being taken to achieve compliance.
(MACT HHHHHH)

25. The permittee shall maintain recordkeeping in accordance with NESHAP HHHHHH. These records shall include the following information:
a) current list of personnel by name and job description that are required to be trained;
b) records describing the methods being used to train the painters including demonstration that the training meets all the requirements specified in this Authority to Construct;
c) type of application equipment used;
d) manufacturer data on the exhaust filter's efficiency;
e) any notifications, initial or compliance status, as required by § 63.11175;
f) any notification of changes reports submitted required by § 63.11176;
g) records of any assessments of source compliance performed in support of the initial notification, notification of compliance status or annual notification of changes report.
(MACT HHHHHH)

26. In addition to all of the conditions in this permit, the following four conditions shall apply when a contractor conducts any marine coating operation under this permit. For the purposes of this permit, a contractor is any person not employed by this stationary source and the permittee is employed by the stationary source.

27. Contractors performing marine coating operations shall be provided a copy of this permit prior to commencing coating operations. (Rule 21)

28. Contractors shall report the following information to the permittee for each marine coating operation conducted under this permit in a format approved by the permittee. The information under items A and B shall be provided to the permittee prior to commencing any marine coating operation.
a) current list of coatings, coating components (bases, catalysts, thinners, etc.), surface preparation materials, and equipment cleaning materials in use. Materials shall be identified as follows:
1. coatings shall specify category as per Rule 67.18(D)(1) or 67.18(D)(2), manufacturer name, manufacturer identification, VOC content, and mix ratio;
2. coating components shall specify manufacturer name, identification, VOC content and mix ratio;
3. surface preparation materials and equipment cleaning materials shall specify manufacturer name and manufacturer identification (VOC content, vapor pressure and boiling point shall be listed as applicable), and; 4. current documentation to demonstrate applicability of any specialty coating category pursuant to Rule 67.18(D)(2);
b) current Material Safety Data Sheets (MSDS) or manufacturer's specifications for all materials containing VOCs and/or TACs. MSDS and manufacturer's specifications shall, at minimum, contain the following information: VOC content weight or weight percentage, TAC content weight or weight percentage and material density (weight per volume) or material specific gravity (material density relative to the density of water);
c) type of application equipment used;
d) daily or monthly usage records shall be kept for all materials containing VOC. If monthly records are maintained, the number of operating days per calendar month shall be recorded; and,
e) daily or monthly VOC emissions.
(Rule 67.18 and 21)

29. The permittee shall ensure the usage and/or emission limitation in this permit is not exceeded based on the usage records obtained from the contractor.

29. Contractors shall comply with all conditions in this permit to operate. (Rule 21)

30. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

31. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.

32. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 27 – MARINE COATING OPERATIONS

ID #: 00204 Permit / Registration #: 6646 Date of Inspection: 11/14/13

Facility: BAE Systems, foot of Sampson St, SD 92113 Date of Expiration: 9/14

Representative: Cara Bandera Title: Env. Supervisor Phone: 619-557-4209

EQUIPMENT DESCRIPTION

1a. Equipment same as described on permit to operate? YES ☒ Yes ☐ No

1b. If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No

Description of changes: _____

2a. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No

2b. Ownership verified? YES ☒ Yes ☐ No

3. Permit conditions reviewed (current / enforceable)? YES ☐ Yes ☐ No

(If no, complete permit condition change request and describe changes in the comments section)

EQUIPMENT INSPECTION

4. Equipment observed in operation? NO ☐ Yes ☒ No

5. VOC materials stored in closed containers? YES ☒ Yes ☐ No *Rule 67.17*

If no, indicate size of containers, content and quantity below:

Size of Container	Contents	Quantity

6. Is an oven used to bake marine coatings above 194 °F? NO ☐ Yes ☒ No

If yes, what is the oven temperature? _____

7. Facility using compliant surface preparation solvents? YES ☒ Yes ☐ No *Rule 67.18(d)(4)*

a. Mfg. Name / ID#: Proline 747/ MEKMIBK VOC Content: 747: 3 g/l

b. or Boiling Point: _____ or Vapor Pressure: MEKMIBK: 41.9 mmHg

8. Facility using compliant gun cleaning solvent or cleaning method? YES ☒ Yes ☐ No *Rule 67.18(d)(3)*

State cleaning method used: Evap. minimisation, Proline 747, acetone, Bio D premium line cleaner, Amercoat 65, Crown 40/60 MEK/MIBK

Gun cleaning solvent: a. Mfg. Name / ID#: see above VOC Content: 0.03, 0, 3.7, 7.3, 6.7

b. or Boiling Point: _____ or Vapor Pressure: _____

9. COATINGS / SOLVENTS *Rule 67.18(d)(1), (d)(2)*

Mfg Name / ID#	Coating Category	Mix Ratio	VOC Content as applied	VOC Standard	Compliant with Rule 67.18
P C Intl 998,922-4 R SW 152,156,navy111	Air dried		340,98 340	340 g/l	"
P SW TTP-28 High Temp C PHA100, PHA046 R	Air dried High gloss	RTU	250 /l	340 g/l	"
P Ameron ABC#3 Red AF C EPA pesticide 7313-20 R P30RQ10 EPA577-559	Antifoulant (not pleasure craft)	"	396 g/l 384 g/l	400 g/l 400 g/l	" "
P Int'l BRA 640/642 C EPA Pesticide 2693-142 R	"	"	385 g/l	400 g/l	"
PAmeron 929 base C " converter R Dampney Galvax	Special marking Precon. Zn Prim		408 g/l 426 g/l	420 g/l 650 g/l	"
P American Safety MS200 C R Interthane 990 (KHA00)	" High Gloss 88%		415 g/l 420 g/l	" 420 g/l	" Yes

10. Does the facility have a control device? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(e)*

If yes, state the type of control device: _____

a. What are the specified operating parameters: _____

b. Is the control device operating within the specified parameters? ☐ Yes ☐ No

c. List operating parameters at time of inspection: _____

RECORDKEEPING

11. Facility has a current list of coatings? YES ☒ Yes ☐ No *Rule 67.18(f)(1)*

12. Facility has current MSDS / product data information to substantiate specialty coating categories? YES ☒ Yes ☐ No *Rule 67.18(f)(1)(ii)*

13. Facility keeping daily or monthly usage records of all coatings used? YES ☒ Yes ☐ No *Rule 67.18(f)(1)(iii)*

14. Facility keeping daily or monthly usage records of surface prep and

cleaning solvents? YES ☒ Yes ☐ No *Rule 67.18(f)(1)(iii)(C)*

15. Facility keeping monthly usage records of material additions to dip tanks? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(D)*

16. Facility maintaining records of oven temperature? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(B)*

17. Facility keeping daily records of emission control equipment operating parameters? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

18. Facility maintaining inspection and maintenance schedules for the control equipment? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

EMISSION REQUIREMENTS / SOURCE TESTING

19. Daily facility emission limit per the permit to operate? 3,000 lb VOC/day avg. per mth, 40 tons/12 mth

20. Is the facility exceeding the daily emission limit? NO ☐ Yes ☒ No *Rule 21*

If yes, state the number of days the facility exceeded the emission limit:

Indicate the facility daily usage for,

a. Coatings: Highest monthly (July 2013): 4,100 lbs sprayed. (includes contractors) July avg. 4,100lbs/31days operation (132.5 lbs/day avg.) <<limit 3,000lbs/day (avg.). 2012 VOC 12.04 tons, <<40 tons (limit)

b. Surface Preparation Solvents:

c. Cleaning Solvents:

21. Is the facility required to be source tested? NO ☐ Yes ☒ No *Rule 21*

If yes, state the source test frequency and the results of the last source test:

COMPLIANCE ACTIONS

22. Notice to Comply Issued? NO ☐ Yes ☒ No Document No.

Rules:

List NTC items below:

23. Notice of Violation Issued? NO ☐ Yes ☒ No Document No.

Rules:

List NOV items below:

Additional Comments: VOC emissions calcs are based on less exempt values so actual emissions would be lower.

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 11/22/13

AQIII Initials: [signature] Date: 12/11/2013

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2000-NTC-15541	09/11/2000		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			SANDOR HALVAX

Relationship: -Select-
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE, INC
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92170	-Select-

Fax:
E-mail:

Notes

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: SANDOR HALVAX

Relationship: --Select-- | Title

Primary: Yes | Organization Name: SOUTHWEST MARINE, INC

Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select--

E-mail

Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search | As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name

Relationship: --Select-- | Title

Primary: No | Organization Name

Business Phone | Street Address

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City | State | Zip Code | Country: --Select--

E-mail

Notes

check spelling

- Notice to Comply

NTC Issue Date: 09/11/2000 | NTC Start Date | NTC End Date | Compliance Due Date: 09/28/2000

Inspector: PVW | Served To: SANDOR HALVAX | Title

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: Yes / No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A		27B	15541
Final Disposition	**Date NTC Letter Sent**	**Civil Actions Investigator**	
- Select-		GAG	

Description of Violation(s) and Corrective Action Required

(CERTIFIED COMPLIANCE)MAINTAIN DAILY COATING USAGE RECORDS, CUMULATIVE EMISSIONS IN DAILYUSAGE RECORDS, DAILY/MONTHLY LOGS OF TYPE AND AMOUNT SOLVENTS USEDFOR CLEANUP, USAGE LOGS FOR FIBERGLASS/POLYESTER/EPOXY RESINOPERTION, & GENERATOR ENGINE OPERATION LOG

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
	D 12(e)(4)(i)	
3,4	D 21	
	D 67 12(f)(3)	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

« ‹ 1 2 3 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2012-INA-000081		LUEG-APCD/Administrative/Change/Inactivation	Complete	09/19/2012				M
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG. .		
APCD2003-PTO-962002		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				D
APCD2005-PTO-900222		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				Fl
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2005-PTO-030718		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				M
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG .		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG..		
APCD2005-APP-982720		LUEG-APCD/Permit App/Material Application/Marine Coating	Cancelled	03/04/2005	ATS	C		O
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				

« ‹ 1 2 3 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * (This section is required.)

Record ID	Opened Date	Closed Date	Status
APCD2000-NOV-210264	09/12/2000		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	2,000.00	2,000.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing (This section is not required.)

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			S. HALVAX

Relationship: -Select-
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
Fax:

City	State	Zip Code	Country
SAN DIEGO	CA	92170	-Select-

E-mail:
Notes:
check spelling

APCD VIO Location (This section is not required.)

Search As Contact

Type	First Name	Last Name	Full Name
APCD VIO Location			S. HALVAX

Relationship: -Select-
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
Fax:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	-Select-

E-mail:
Notes:
check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: -Select- | Title
Organization Name
Primary: No
Street Address
Business Phone
Address Line 2
Mobile Phone
Address Line 3
Home Phone
City | State | Zip Code | Country: -Select-
Fax
E-mail
Notes
check spelling

APCD VIO Agent *(This section is not required.)*

Search As Contact

Type: APCD VIO Agent | First Name | Last Name | Full Name
Relationship: -Select- | Title
Organization Name
Business Phone
Street Address
Mobile Phone
Address Line 2
Home Phone
Address Line 3
Fax
City | State | Zip Code | Country: -Select-
Notes
E-mail
Primary: No
check spelling

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
10(b)		Operating Without Permission,	
10(a)	NO PERMIT TO OPERATE ADHESIVE OPERATION	No Authority to Construct	
21	PO COND. #10- PAVEMENT/GROUND SURFACE WITHIN 25 FT OUTSIDE THE BI	Permit Conditions	
21	PO COND. #10-DUST COLLECTORS FOR FIBERGLASS MACHINING FACILITY W	Permit Conditions	
21	PO COND. #11-COATING MARINE PARTS WITHOUT HVLP PAINT APPLICATION	Permit Conditions	

- Notice of Violation
Notice Of Violation Details

Legacy Reference ID Asbestos Reference Number Complaint Reference Number

210264

Inspection Type (Method) --Select--

Date NOV Issued 09/12/2000

Date Violation began 09/11/2000

Date Violation Ends

Statute of Limitations

Inspector PVAN

Received by

Title of recipient

Certified Mailing Number

Certified Mailing Date

Return Receipt Received ○ Yes ○ No

Return Receipt Received Date

Title V ○ Yes ○ No

Synthetic Minor ○ Yes ○ No

Pollutant that makes TV/SM --Select--

PSD ○ Yes ○ No

Pollutant in violation --Select--

Violation Response Details

Compliance Achieved

Response Acknowledgement Letter --Select--

Acknowledgement Letter Date

File to CAI 12/20/2000

Senior Inspector Comments

check spelling

Settlement Details

HPV ○ Yes ○ No

1st Offer letter Date 03/13/2001

1st Offer Amount 2250 00

Maximum Penalty --Select--

1st offer comments MS1

2nd Offer Letter Date

2nd Offer Amount

2nd offer comments

Referred to --Select--

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment ○ Yes ○ No

Judgment amount

Case Number

Case comments

Result FI

Date of Payment 05/08/2001

Final Date 05/08/2001

Civil Actions Investigator GAG

Negotiated Amount 2000 00

Legacy Data

Disposition MS

Disposition Comments CMB W/210275 TL $2,750

Method
AI APCD NOV Form - Rev July 2012

Related Records

« ‹ 1 2 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG		
APCD2005-PTO-005646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG...		

« ‹ 1 2 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * (This section is required)

Record ID	Opened Date	Closed Date	Status
APCD2001-NOV-210861	01/19/2001		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	750.00	750.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing (This section is not required)

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			MAILED CERTIFIED

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO | State: CA | Zip Code: 92170 | Country: --Select--
Fax:
E-mail:
Notes:

check spelling

APCD VIO Location (This section is not required)

Search As Contact

Type	First Name	Last Name	Full Name
APCD VIO Location			MAILED CERTIFIED

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select--
Fax:
E-mail:
Notes:

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: -Select- | Title
Organization Name
Primary: No | Street Address
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City | State | Zip Code | Country: -Select-
Fax | E-mail
Notes
check spelling

APCD VIO Agent *(This section is not required.)*

Search As Contact

Type: APCD VIO Agent | First Name | Last Name | Full Name
Relationship: -Select- | Title
Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: -Select-
Notes | E-mail
Primary: No
check spelling

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	COND. #3-DAILY USAGE RECORDS DO NOT INCLUDE MIX RATIOS AND CLEAN	Permit Conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 210961 | Asbestos Reference Number | Complaint Reference Number

Inspection Type [Method]: Select | Date NOV Issued: 01/19/2001 | Date Violation began: 01/19/2001 | Date Violation Ends | Statute of Limitations

Inspector | Received by | Title of recipient

Certified Mailing Number | Certified Mailing Date | Return Receipt Received (Yes / No) | Return Receipt Received Date

Title V
Yes / No

Synthetic Minor (Yes / No) | Pollutant that makes TV/SM: --Select--

PSD
Yes / No | Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved | Response Acknowledgement Letter: --Select-- | Acknowledgement Letter Date | File to CAI: 03/15/2001

Senior Inspector Comments

check spelling

Settlement Details

HPV
Yes / No

1st Offer letter Date: 05/10/2001 | 1st Offer Amount: 750.00 | Maximum Penalty: --Select--

1st offer comments
MS1

2nd Offer Letter Date | 2nd Offer Amount

2nd offer comments

Referred to: --Select-- | Hearing Board Number

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (Yes / No) | Judgment amount

Case Number | Case comments

Result: FI | Date of Payment: 05/22/2001 | Final Date: 05/22/2001 | Civil Actions Investigator: GAG | Negotiated Amount

Legacy Data

Disposition: MS | Disposition Comments

Method: FDE

APCD NOV Form - Rev July 2012

Related Records

1 2 ▸ ⏭

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG		

◂ 1 2 ▸ ⏭

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2002-NTC-16489	01/31/2002		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			SOUTHWEST MARINE, INC

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE, INC
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
Fax:

City	State	Zip Code	Country
SAN DIEGO	CA	92170	--Select--

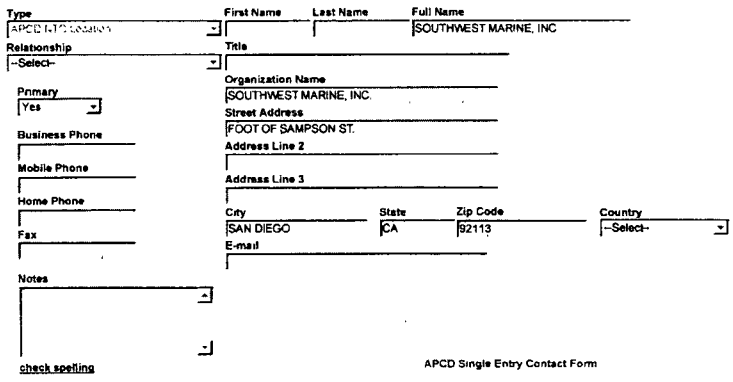
E-mail:

Notes

check spelling

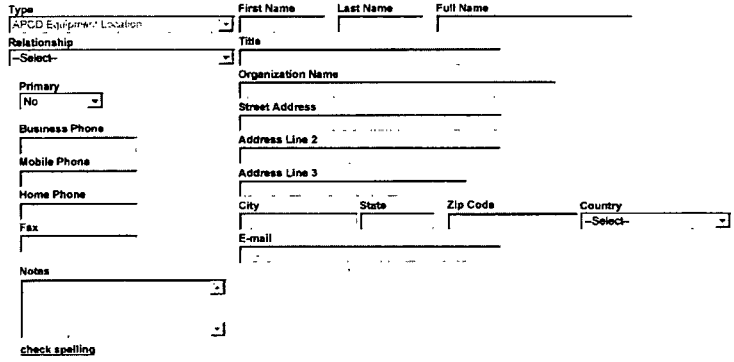
APCD NTC Location *(This section is not required.)*

Search As Contact


Type: APCD NTC Location | First Name | Last Name | Full Name: SOUTHWEST MARINE, INC
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE, INC.
Street Address: FOOT OF SAMPSON ST.
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select--
Fax | E-mail
Notes
check spelling
APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact


Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Street Address
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City | State | Zip Code | Country: --Select--
Fax | E-mail
Notes
check spelling

- Notice to Comply

NTC Issue Date: 01/31/2002 | NTC Start Date | NTC End Date | Compliance Due Date: 02/27/2002

Inspector: RCS | Served To | Title

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A		27B	16489

Final Disposition: --Select-- | Date NTC Letter Sent | Civil Actions Investigator: GAG

Description of Violation(s) and Corrective Action Required

(CLOSED CERTIFED COMPLIANCE 20-FEB-2002)STORE ALL VOC CONTAINING MATERIALS AND WASTES IN CLOSED CONTAINERS

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
5	D 21	
	D 67.17(d)(2)	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 8648	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/08/2010	Joe Herzig	COSD/LUEG .		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG .		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG .		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-18489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG .		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210254		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG .		

1 2

Submit Cancel

Save Reset Cancel Help

Record Detail * (This section is required)

Record ID: APCD2002-NOV-212035
Opened Date: 02/12/2002
Closed Date:
Status: Closed

Type: LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes:

Detailed Description:

check spelling

Entered by Division: Current Division --Select--
Entered/Updated by: * Current User --Select--
Entered Date:

Division: Current Division --Select--
Assigned to: Current User --Select--
Invoiced: 1,000 00
Paid: 1,000 00
Balance: 0 00

Expiration Status:
Expiration Date:
Record Name:

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing (This section is not required)

Search As Contact

Type *: APCD VIO Mailing
First Name:
Last Name:
Full Name: SANDOR HALVAX
Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE, INC.
Street Address: FOOT OF SAMPSON ST
Business Phone: 8192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO
State: CA
Zip Code: 92113
Country: --Select--
Fax:
E-mail:

Notes:

check spelling

APCD VIO Location (This section is not required)

Search As Contact

Type: APCD VIO Location
First Name:
Last Name:
Full Name: SANDOR HALVAX
Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE, INC
Street Address: FOOT OF SAMPSON ST
Business Phone: 8192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO
State: CA
Zip Code: 92113
Country: --Select--
Fax:
E-mail:

Notes:

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location
Relationship: -Select-
Primary: No
Business Phone
Mobile Phone
Home Phone
Fax
Notes
check spelling

First Name | Last Name | Full Name
Title
Organization Name
Street Address
Address Line 2
Address Line 3
City | State | Zip Code | Country: -Select-
E-mail

APCD VIO Agent *(This section is not required.)*

Search As Contact

Type: APCD VIO Agent
Relationship: -Select-
Business Phone
Mobile Phone
Home Phone
Fax
Notes
check spelling

First Name | Last Name | Full Name
Title
Organization Name
Street Address
Address Line 2
Address Line 3
City | State | Zip Code | Country: -Select-
E-mail
Primary: No

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	PO COND. #11-FAILING TO USE HVLP PAINT APPLICATION EQUIP FOR COATIN	Permit Conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 212035
Asbestos Reference Number
Complaint Reference Number
Inspection Type [Method]: -Select-
Date NOV Issued: 02/12/2002
Date Violation began: 01/31/2002
Date Violation Ends
Statute of Limitations
Inspector
Received by
Title of recipient

RCS

Certified Mailing Number | Certified Mailing Date | Return Receipt Received (C Yes C No) | Return Receipt Received Date

Title V
C Yes C No

Synthetic Minor
C Yes C No

Pollutant that makes TV/SM
--Select--

PSD
C Yes C No

Pollutant in violation
--Select--

Violation Response Details

Compliance Achieved | Response Acknowledgement Letter: --Select-- | Acknowledgement Letter Date | File to CAI: 04/10/2002

Senior Inspector Comments

check spelling

Settlement Details

HPV
C Yes C No

1st Offer letter Date: 07/02/2002 | 1st Offer Amount: 1000.00 | Maximum Penalty: --Select--

1st offer comments
MS1

2nd Offer Letter Date | 2nd Offer Amount

2nd offer comments

Referred to: --Select-- | Hearing Board Number

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (C Yes C No) | Judgment amount

Case Number | Case comments

Result: FI | Date of Payment: 07/16/2002 | Final Date: 07/16/2002 | Civil Actions Investigator: GAG | Negotiated Amount

Legacy Data

Disposition: MS | Disposition Comments

Method: MI

APCD NOV Form - Rev July 2012

Related Records

‹ 1 2 ›

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG..		
APCD2005-PTO-006846		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG ..		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG..		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG..		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG..		

Submit Cancel

Save Reset Cancel Help

Record Detail * (This section is required.)

Record ID	Opened Date	Closed Date	Status
APCD2002-NOV-213327	11/25/2002		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division (Current Division)	Entered/Updated by: * (Current User)	Entered Date
-Select-	-Select-	

Division (Current Division)	Assigned to: (Current User)	Invoiced	Paid	Balance
-Select-	-Select-	975.00	975.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

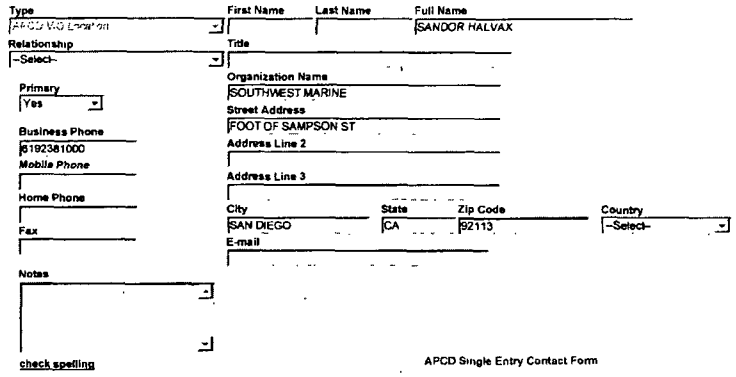
Type * APCD VIO Mailing
Relationship -Select-
Primary Yes
Business Phone 6192381000
Mobile Phone
Home Phone
Fax
First Name Last Name Full Name SANDOR HALVAX
Title
Organization Name SOUTHWEST MARINE
Street Address PO BOX 13308
Address Line 2
Address Line 3
City SAN DIEGO State CA Zip Code 921703308 Country -Select-
E-mail

Notes

check spelling

APCD VIO Location *(This section is not required.)*

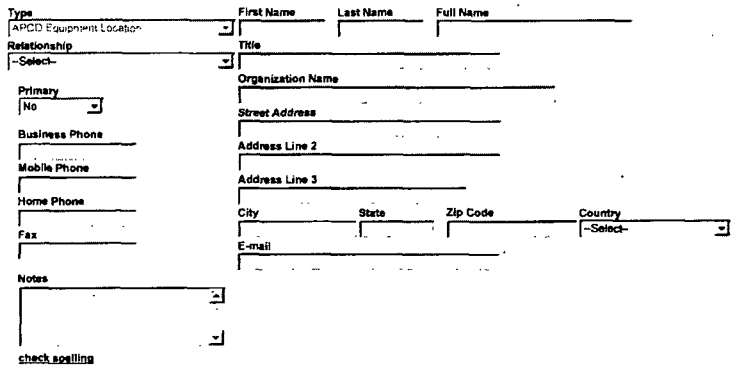
Search As Contact



APCD Single Entry Contact Form

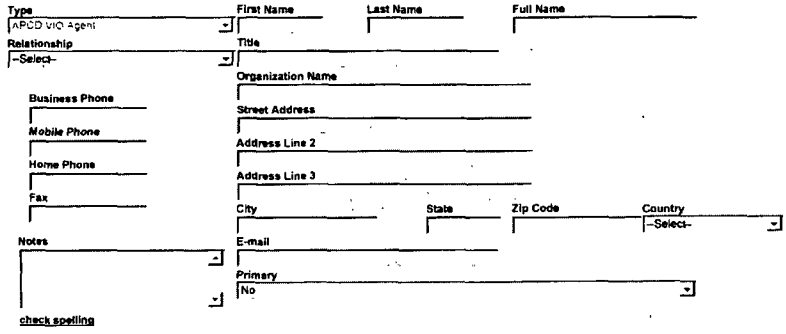
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	PO COND. #5	Permit Conditions	
87 17(d)(1)	FAILURE TO MAINTAIN ONE-QUART CAN OF SOLVENT CLOSED WHEN NOT IN	Open VOC Containers - Materials	
21	PO COND. #10-FAILURE TO USE HVLP SPRAY EQUIPMENT TO APPLY COATIN	Permit Conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 213327
Asbestos Reference Number:
Complaint Reference Number:

Inspection Type [Method]: --Select--
Date NOV Issued: 11/25/2002
Date Violation began: 11/22/2002
Date Violation Ends:
Statute of Limitations:

Inspector: RCS
Received by:
Title of recipient:

Certified Mailing Number:
Certified Mailing Date:
Return Receipt Received: Yes No
Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No
Pollutant that makes TV/SM: --Select--

PSD: Yes No
Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:
Response Acknowledgement Letter: --Select--
Acknowledgement Letter Date:
File to CAI: 12/11/2002

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 01/14/2003
1st Offer Amount: 975.00
Maximum Penalty: --Select--

1st offer comments

MS1

2nd Offer Letter Date | 2nd Offer Amount

2nd offer comments

Referred to | Hearing Board Number

--Select--

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (Yes / No) | Judgment amount

Case Number | Case comments

Result	Date of Payment	Final Date	Civil Actions Investigator	Negotiated Amount
FI	01/28/2003	01/28/2003	GAG	

Legacy Data

Disposition: MS | Disposition Comments

Method: MI

APCD NOV Form - Rev July 2012

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Manne Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG		

1 2

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2008-NTC-21795	10/08/2008		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			S. HALVAX

Relationship: -Select-
Title:
Primary: Yes
Organization Name: BAE SYSTEMS SDSRINC
Street Address: FOOT OF SAMPSON STREET
Business Phone: 6195718632
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	-Select-

Fax:
E-mail:

Notes

check spelling

APCD NTC Location *(This section is not required.)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: S HALVAX

Relationship: -Select- | Title

Primary: Yes | Organization Name: BAE SYSTEMS SDSRINC

Business Phone: 6195718632 | Street Address: FOOT OF SAMPSON STREET

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: -Select-

E-mail

Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search | As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name

Relationship: -Select- | Title

Primary: No | Organization Name

Business Phone | Street Address

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City | State | Zip Code | Country: -Select-

E-mail

Notes

check spelling

- Notice to Comply

NTC Issue Date: 10/08/2008 | NTC Start Date | NTC End Date | Compliance Due Date: 10/22/2008

Inspector: JMP | Served To: S. HALVAX | Title: DIR. ENV. SVCS

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: -Select-

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A		27B	21795
Final Disposition	**Date NTC Letter Sent**	**Civil Actions Investigator**	
-Select-		GAG	

Description of Violation(s) and Corrective Action Required

SPECIFICALLY, MONTHLY VOC DATA MISSING/INCOMPLETE AND/OR INCORRECTLYCALCULATING DAILY USAGE (ACCURATELY CALCULATE ALL VOC DATA ANDREPORT COMPREHENSIVE MONTHLY DATA.) [10/22/08 CERTIFIED COMPLIANCE]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
4	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Matanal Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG .		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG..		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG ..		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG .		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG...		

1 2

Submit Cancel

Save Reset Cancel Help

Record Detail * (This section is required)

Record ID	Opened Date	Closed Date	Status
APCD2009-NOV-220634	01/02/2009		Closed - Paid

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gierde	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing (This section is not required)

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			SHAUN HALVAX

Relationship: -Select-
Title:
Organization Name: BAE SYSTEMS SD SHP REPAIR INC
Primary: Yes
Street Address: 2205 EAST BELT STREET
Business Phone: 6195718632
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	-Select-

Fax:
E-mail:
Notes:

check spelling

APCD VIO Location (This section is not required)

Search As Contact

Type	First Name	Last Name	Full Name
APCD VIO Location			MAILED CERTIFIED

Relationship: -Select-
Title:
Organization Name: BAE SYSTEMS SD SHP REPAIR INC
Primary: Yes
Street Address: FOOT OF SAMPSON STREET
Business Phone: 6195718632
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	-Select-

Fax:
E-mail:
Notes:

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: -Select- | Title
Organization Name
Primary: No | Street Address
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City | State | Zip Code | Country: -Select-
Fax | E-mail
Notes
check spelling

APCD VIO Agent *(This section is not required.)*

Search As Contact

Type: APCD VIO Agent | First Name | Last Name | Full Name
Relationship: -Select- | Title
Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: -Select-
Notes | E-mail
Primary: No
check spelling

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	PO CND #4-BY OPERATING OR ALLOWING THE OPERATION OF A MARINE CO	Permit Conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 220634 | Asbestos Reference Number | Complaint Reference Number

Inspection Type [Method]: -Select- | Date NOV Issued: 01/02/2009 | Date Violation began: 10/01/2008 | Date Violation Ends | Statute of Limitations

Inspector | Received by | Title of recipient

NP

Certified Mailing Number | Certified Mailing Date | Return Receipt Received (Yes / No) | Return Receipt Received Date

Title V
Yes / No

Synthetic Minor (Yes / No) | Pollutant that makes TV/SM: -Select-

PSD
Yes / No | Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved | Response Acknowledgement Letter: --Select-- | Acknowledgement Letter Date | File to CAI: 02/18/2009

Senior Inspector Comments

check spelling

Settlement Details

HPV
Yes / No

1st Offer letter Date: 03/20/2009 | 1st Offer Amount: 500.00 | Maximum Penalty: --Select--

1st offer comments: MS1

2nd Offer Letter Date: 05/12/2009 | 2nd Offer Amount

2nd offer comments: NFA

Referred to: -Select- | Hearing Board Number

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (Yes / No) | Judgment amount

Case Number | Case comments

Result: NFA | Date of Payment | Final Date: 04/15/2009 | Civil Actions Investigator: GAG | Negotiated Amount

Legacy Data

Disposition: MS | Disposition Comments: CMB W220638 & 219874

Method: AI

APCD NOV Form - Rev July 2012

Related Records

1 2 ▸ ▸|

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mal to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG..		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG ..		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG...		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG .		

◂◂ ◂ 1 2 ▸ ▸|

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD1990-NOV-106191	08/14/1990		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
--Select--		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
--Select--		--Select--		0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			SOUTHWEST MARINE INC

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT OF SAMPSON
Business Phone:
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

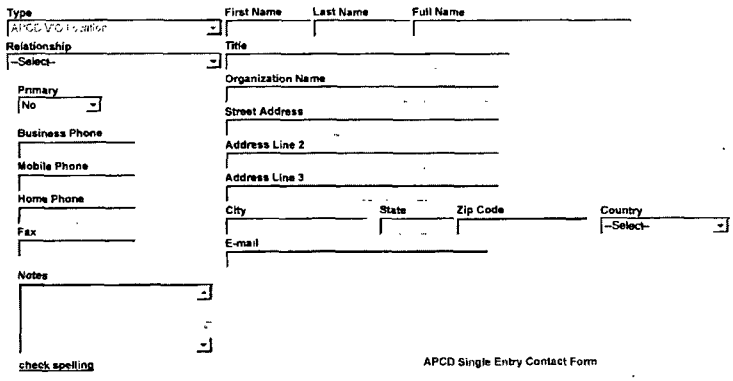
City	State	Zip Code	Country
SAN DIEGO		92113	--Select--

Fax:
E-mail:
Notes:

check spelling

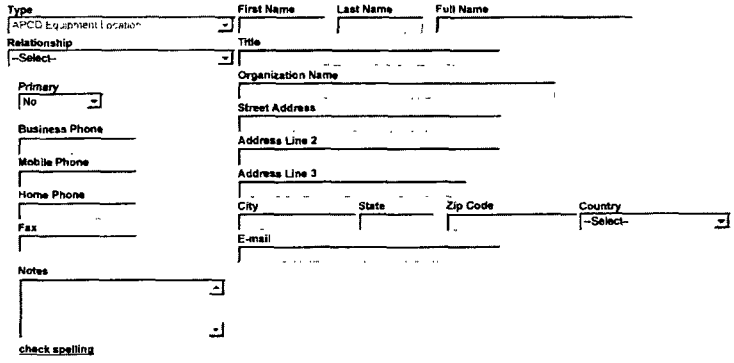
APCD VIO Location *(This section is not required.)*

Search As Contact



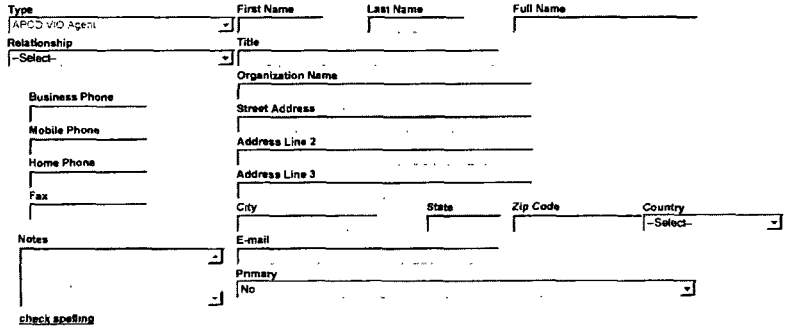
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text) Law Type(Text) Category(Text) Section(Text) Rule Description(Text Area) Description of Violation(Text Area) Record ID(Text) Equipment Type Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text) Number of Grade Points Tested(Number) Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
67.0			

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 106191

Asbestos Reference Number

Complaint Reference Number

Inspection Type [Method]: --Select--

Date NOV Issued: 08/14/1990

Date Violation began

Date Violation Ends

Statute of Limitations

Inspector: TS

Received by

Title of recipient

Certified Mailing Number

Certified Mailing Date

Return Receipt Received: Yes No

Return Receipt Received Date

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date

File to CAI

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date

1st Offer Amount: 0.00

Maximum Penalty: --Select--

1st offer comments

2nd Offer Letter Date

2nd Offer Amount

2nd offer comments

Referred to: --Select--

Hearing Board Number:

Date Case Referred:

Date Complaint Filed:

Trial Date:

Judgment: Yes / No

Judgment amount:

Case Number:

Case comments:

Result: FI

Date of Payment: 07/31/2009

Final Date: 05/21/1991

Civil Actions Investigator: --Select--

Negotiated Amount: 0.00

Legacy Data:

Disposition: MS

Disposition Comments: 67.18 DISREGARD 67.0

Method: AI

APCD NOV Form - Rev July 2012

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6645	LUEG-APCD/Permit App/Material Application/Manne Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG		

1 2

Submit Cancel

Save Reset Cancel Help

Record Detail * (This section is required)

Record ID: APCD1990-NOV-105460
Opened Date: 03/01/1990
Closed Date:
Status: Closed

Type: LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes:

Detailed Description:

check spelling

Entered by Division: Current Division -Select-
Entered/Updated by: * Current User -Select-
Entered Date:

Division: Current Division -Select-
Assigned to: Current User -Select-
Invoiced: 0.00
Paid: 0.00
Balance: 0.00

Expiration Status:
Expiration Date:
Record Name:

1 Form: APCD Single Entry Edit July 2011

APCD VIO Mailing * (This section is not required)

Search As Contact

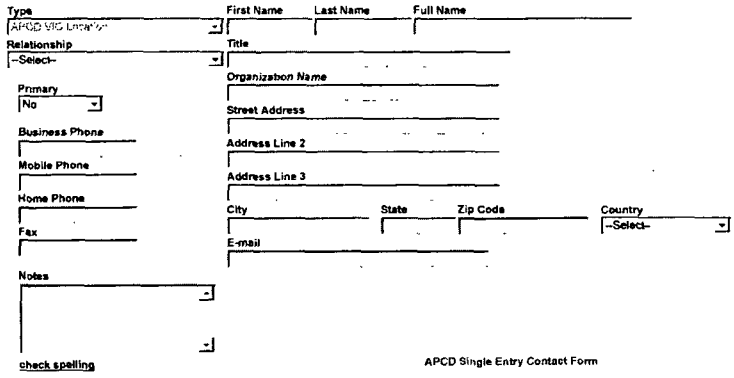
Type *: APCD VIO Mailing
First Name:
Last Name:
Full Name: SOUTHWEST MARINE
Relationship: -Select-
Title:
Organization Name: SOUTHWEST MARINE
Primary: Yes
Street Address: FT OF SAMPSON
Business Phone:
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO
State:
Zip Code: 92113
Country: -Select-
Fax:
E-mail:

Notes:

check spelling

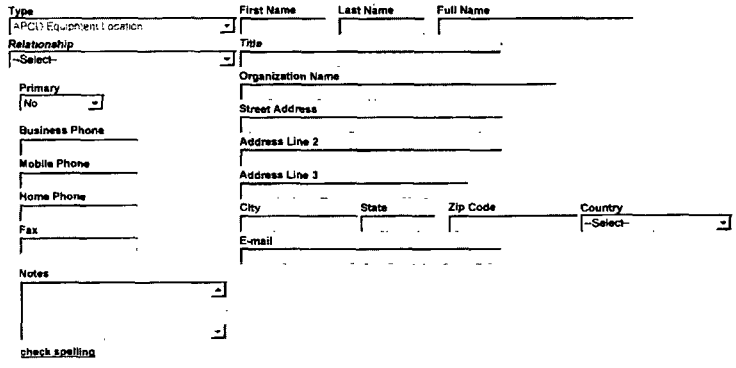
APCD VIO Location (This section is not required)

Search As Contact



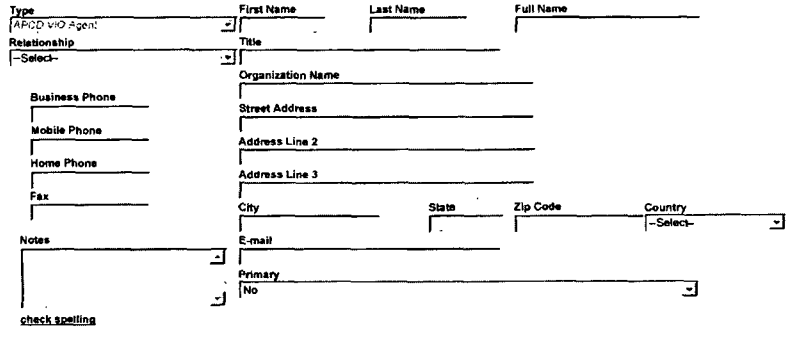
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

63732 PAGE 2014

VIOLATION COUNTS Add Delete CSV Export

Count(Text) Law Type(Text) Category(Text) Section(Text) Rule Description(Text Area) Description of Violation(Text Area) Record ID(Text) Equipment Type Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text) Number of Grade Points Tested(Number) Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21			

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 105460

Asbestos Reference Number

Complaint Reference Number

Inspection Type [Method]: --Select--

Date NOV Issued: 03/01/1990

Date Violation began

Date Violation Ends

Statute of Limitations

Inspector: TS

Received by

Title of recipient

Certified Mailing Number

Certified Mailing Date

Return Receipt Received: Yes No

Return Receipt Received Date

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: - Select -

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date

File to CAI

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 08/10/1990

1st Offer Amount: 500.00

Maximum Penalty: --Sel.. :--

1st offer comments

2nd Offer Letter Date

2nd Offer Amount

2nd offer comments

Referred to --Select--

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment Yes No

Judgment amount

Case Number

Case comments

Result FI

Date of Payment 07/31/2009

Final Date 08/29/1990

Civil Actions Investigator --Select--

Negotiated Amount 0.00

Legacy Data

Disposition MS

Disposition Comments

Method MI

APCD NOV Form - Rev July 2012

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/08/2010	Joe Herzig	COSD/LUEG		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG..		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG...		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG .		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG .		

1 2

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD1991-NOV-109092	07/15/1991		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division (Current Division)	Entered/Updated by: * (Current User)	Entered Date
-Select-	-Select-	

Division (Current Division)	Assigned to: (Current User)	Invoiced	Paid	Balance
-Select-	-Select-	0.00	0.00	0.00

Expiration Status | Expiration Date | Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			SOUTHWEST MARINE INC

Relationship: -Select-
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT OF SAMPSON ST
Business Phone:
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO		92113	-Select-

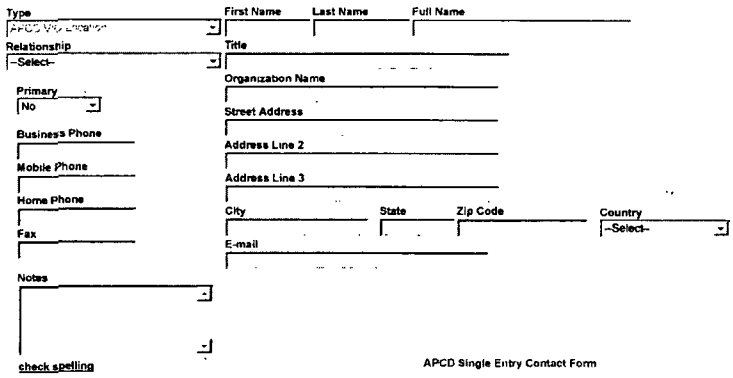
Fax:
E-mail:

Notes

check spelling

APCD VIO Location *(This section is not required.)*

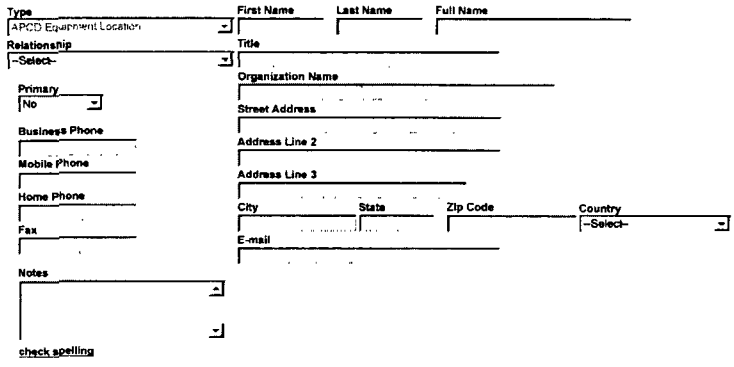
Search As Contact



APCD Single Entry Contact Form

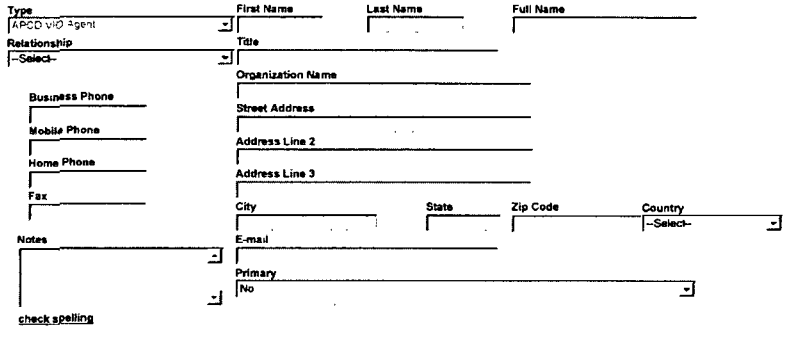
APCD Equipment Location *(This section is not required)*

Search As Contact



APCD VIO Agent *(This section is not required)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text) Law Type(Text) Category(Text) Section(Text) Rule Description(Text Area) Description of Violation(Text Area) Record ID(Text) Equipment Type Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text) Number of Grade Points Tested(Number) Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
42400			

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 109092 | Asbestos Reference Number | Complaint Reference Number

Inspection Type [Method]: --Select-- | Date NOV Issued: 07/15/1991 | Date Violation began | Date Violation Ends | Statute of Limitations

Inspector: WG | Received by | Title of recipient

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: Yes No | Return Receipt Received Date

Title V: Yes No

Synthetic Minor: Yes No | Pollutant that makes TV/SM: --Select--

PSD: Yes No | Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved | Response Acknowledgement Letter: --Select-- | Acknowledgement Letter Date | File to CAI

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date | 1st Offer Amount: 0 00 | Maximum Penalty: --Select--

1st offer comments

2nd Offer Letter Date | 2nd Offer Amount

2nd offer comments

Referred to -Select-

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment Yes No

Judgment amount

Case Number

Case comments

Result NFA

Date of Payment

Final Date 10/10/1991

Civil Actions Investigator -Select-

Negotiated Amount 0.00

Legacy Data

Disposition MS

Disposition Comments NFA-COMPLIED W/RULE

Method FDE

APCD NOV Form - Rev July 2012

Related Records

< 1 2 > >|

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 8646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG .		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-Z20634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG...		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG...		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG...		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG...		

< 1 2 > >|

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1994-NOV-201462	09/28/1994		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

Search As Contact

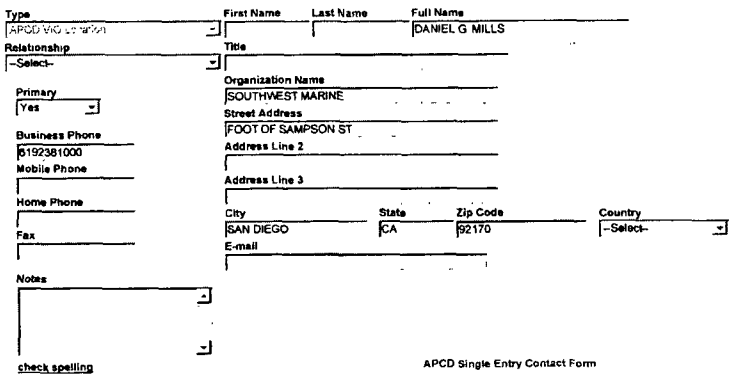
Type * APCD V.O Mailing
Relationship --Select--
Primary Yes
Business Phone 6192381000
Mobile Phone
Home Phone
Fax
Notes

First Name Last Name Full Name DANIEL G. MILLS
Title
Organization Name SOUTHWEST MARINE
Street Address PO BOX 13308
Address Line 2
Address Line 3
City SAN DIEGO State CA Zip Code 92170 Country --Select--
E-mail

check spelling

APCD VIO Location *(This section is not required)*

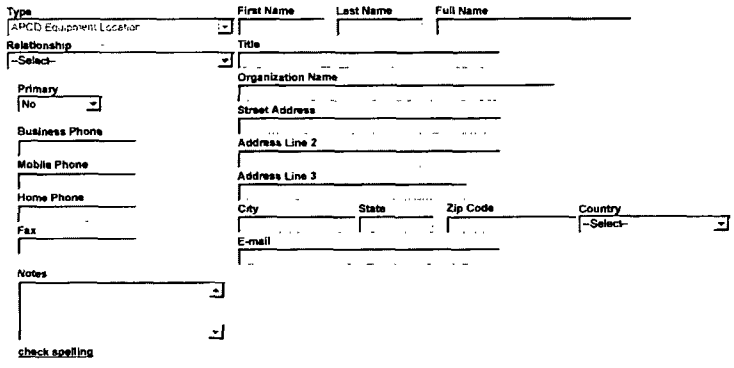
Search As Contact



APCD Single Entry Contact Form

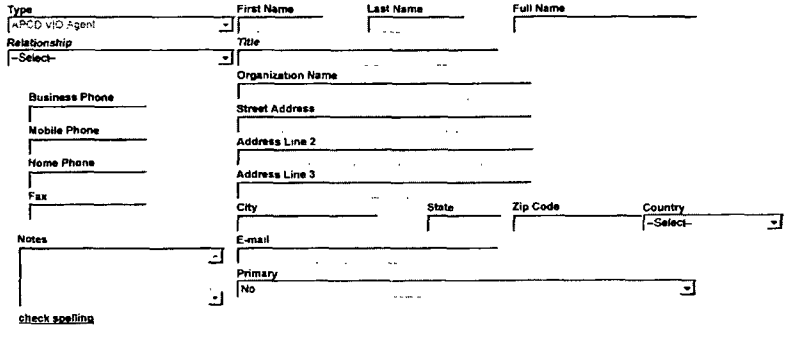
APCD Equipment Location *(This section is not required.)*

Search **As Contact**



APCD VIO Agent *(This section is not required.)*

Search **As Contact**



Record Specific Info Tables

63732 PAGE 2022

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	CONDITION #11	Permit conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 201462
Asbestos Reference Number:
Complaint Reference Number:

Inspection Type [Method]: --Select--
Date NOV Issued: 09/28/1994
Date Violation began: 09/28/1994
Date Violation Ends:
Statute of Limitations:

Inspector: LLS
Received by:
Title of recipient:

Certified Mailing Number:
Certified Mailing Date:
Return Receipt Received: Yes No
Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No
Pollutant that makes TV/SM: --Select--

PSD: Yes No
Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:
Response Acknowledgement Letter: --Select--
Acknowledgement Letter Date:
File to CAI:

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 10/27/1994
1st Offer Amount: 250.00
Maximum Penalty: --Select--

1st offer comments: MS1-S

2nd Offer Letter Date: 02/02/1995
2nd Offer Amount:

2nd offer comments

MS-NFA

Referred to --Select--

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment Yes No

Judgment amount

Case Number

Case comments

Result NFA

Date of Payment

Final Date 01/27/1995

Civil Actions Investigator GAG

Negotiated Amount

Legacy Data

Disposition MS

Disposition Comments

Method AI

APCD NOV Form - Rev July 2012

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG..		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG .		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG...		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG..		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG...		

1 2

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD1996-NOV-204253	09/05/1996		Closed

Type
LUEG-APCD/ComplianceNotice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

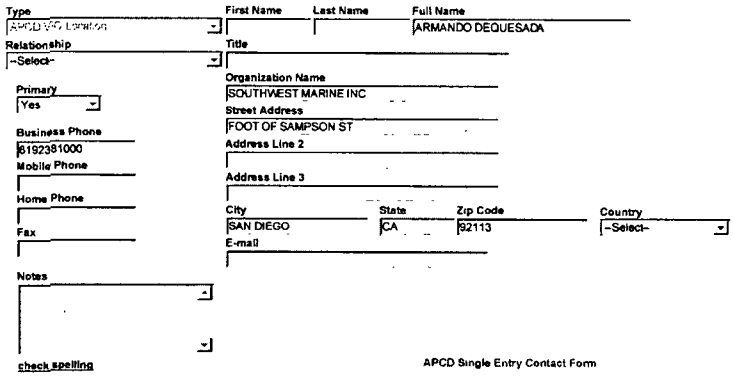
Type *	First Name	Last Name	Full Name
APCD V O Mailing			ARMANDO DEQUESADA

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Business Phone: 6192381000
Street Address: FOOT OF SAMPSON ST
Mobile Phone:
Address Line 2:
Home Phone:
Address Line 3:
Fax:
City: SAN DIEGO
State: CA
Zip Code: 92113
Country: --Select--
E-mail:
Notes:

check spelling

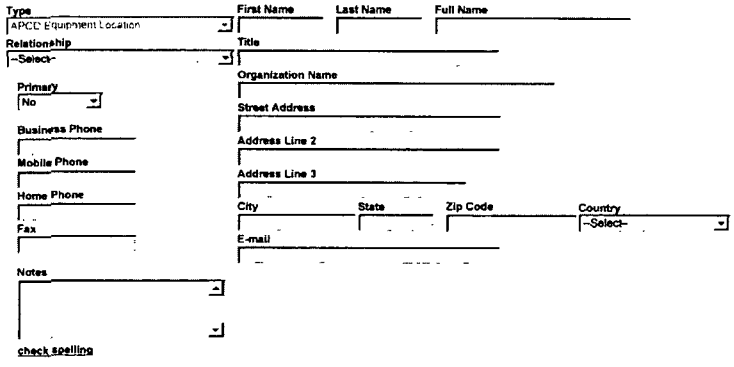
APCD VIO Location *(This section is not required.)*

Search As Contact



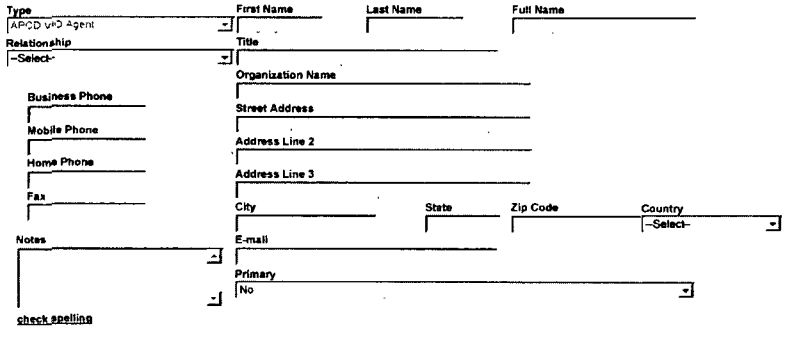
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	COND #4 FAILING TO SUBMIT MONTHLY SUMMARY OF DAILY USAGE RECORI	Permit conditions	
21	COND #13 FAILING TO CONDUCT ALL SPRAY GUN CLEANING IN AN ENCLOSE	Permit conditions	
67.18(d)(3)(i)		Marine Coating cleanup equipment	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 204253
Asbestos Reference Number:
Complaint Reference Number:

Inspection Type [Method]: --Select
Date NOV Issued: 09/05/1996
Date Violation began: 03/01/1996
Date Violation Ends: 09/03/1996
Statute of Limitations:

Inspector: LLS
Received by:
Title of recipient:

Certified Mailing Number:
Certified Mailing Date:
Return Receipt Received: Yes No
Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No
Pollutant that makes TV/SM: --Select--

PSD: Yes No
Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:
Response Acknowledgement Letter: --Select--
Acknowledgement Letter Date:
File to CA!:

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 02/14/1997
1st Offer Amount: 250 00
Maximum Penalty: --Select--

1st offer comments
MS1-S

2nd Offer Letter Date

2nd Offer Amount

2nd offer comments

Referred to
--Select--

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment
Yes No

Judgment amount

Case Number

Case comments

Result	Date of Payment	Final Date	Civil Actions Investigator	Negotiated Amount
FI	02/27/1997	02/27/1997	EGW	

Legacy Data

Disposition	Disposition Comments
MS	CMB W/254 TTL $400 00

Method
AI

APCD NOV Form - Rev July 2012

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG...		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG ..		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/08/2008	Greg Gjerde	COSD/LUEG ..		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG .		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG .		

1 2

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1997-NOV-205482	05/23/1997		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	250.00	250.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			LENA BEST

Relationship: -Select-
Title:
Organization Name: SOUTHWEST MARINE INC
Primary: Yes
Street Address: PO BOX 13305
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

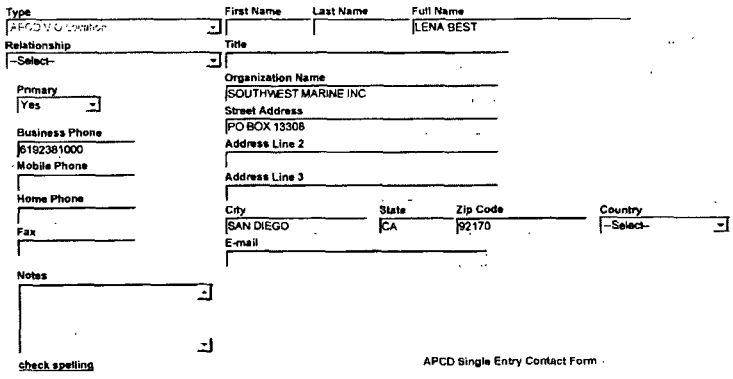
City	State	Zip Code	Country
SAN DIEGO	CA	92170	-Select-

Fax:
E-mail:
Notes:

check spelling

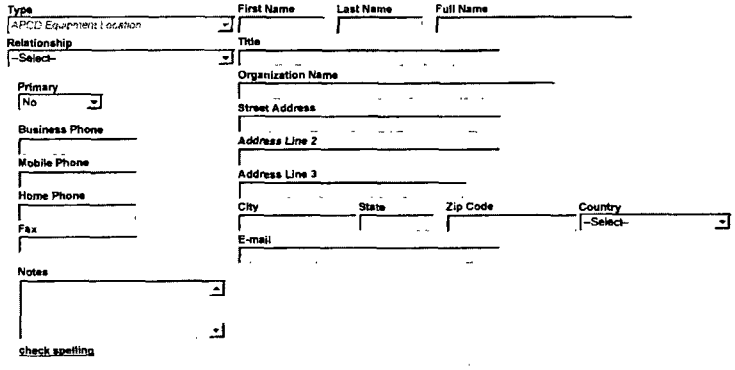
APCD VIO Location *(This section is not required)*

Search As Contact



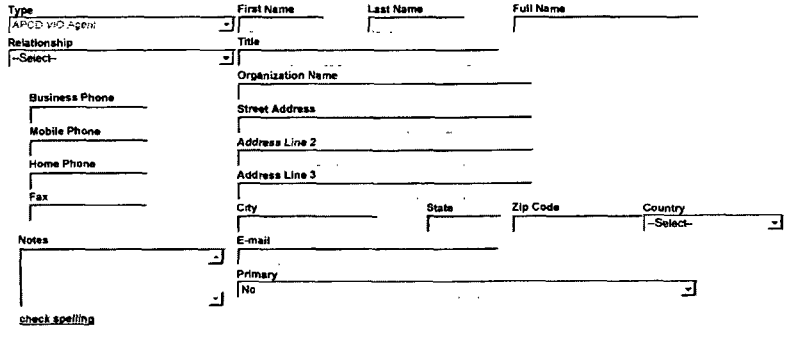
APCD Equipment Location *(This section is not required.)*

Search **As Contact**



APCD VIO Agent *(This section is not required.)*

Search **As Contact**



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	#11 USING AIRLESS SPRAY EQUIPMENT TO APPLY COATINGS TO COMPONEI	Permit conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 205462
Asbestos Reference Number:
Complaint Reference Number:

Inspection Type (Method): --Select--
Date NOV Issued: 05/23/1997
Date Violation began: 05/20/1997
Date Violation Ends:
Statute of Limitations:

Inspector: JDL
Received by:
Title of recipient:

Certified Mailing Number:
Certified Mailing Date:
Return Receipt Received: Yes No
Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No
Pollutant that makes TV/SM: --Select--

PSD: Yes No
Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:
Response Acknowledgement Letter: --Select--
Acknowledgement Letter Date:
File to CAI:

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 08/11/1997
1st Offer Amount: 250.00
Maximum Penalty: --Select--

1st offer comments: MS1-S

2nd Offer Letter Date:
2nd Offer Amount:

2nd offer comments

Referred to: --Select--
Hearing Board Number:

Date Case Referred:
Date Complaint Filed:
Trial Date:
Judgment: Yes / No
Judgment amount:

Case Number:
Case comments:

Result: FI
Date of Payment: 07/31/2009
Final Date: 08/21/1997
Civil Actions Investigator: GAG
Negotiated Amount:

Legacy Data:

Disposition: MS
Disposition Comments: CMB W/460 & 461 $475

Method: AI

APCD NOV Form - Rev July 2012

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-APP-001243	Mail to PO 6646	LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/06/2010	Joe Herzig	COSD/LUEG		
APCD2005-PTO-006646		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				
APCD2009-NOV-220634		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	01/02/2009	Greg Gjerde	COSD/LUEG		
APCD2008-NTC-21795		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	10/06/2008	Greg Gjerde	COSD/LUEG		
APCD2002-NOV-213327		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	11/25/2002				
APCD2002-NOV-212035		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	02/12/2002				
APCD2002-NTC-16489		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	01/31/2002	Greg Gjerde	COSD/LUEG		
APCD2001-NOV-210861		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	01/19/2001				
APCD2000-NOV-210264		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/12/2000				
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG		

1 2

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: N/A

PERMIT ID
APCD2005-PTO-030718

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

MARINE/METAL PARTS COATING OPERATION: ONE (1) M & W PAINT SPRAY BOOTH (9'H X 14'W X 26'L) EQUIPPED WITH AN EXHAUST FILTERING SYSTEM AND USING DEVILBISS CONVENTIONAL, GRACO G-1265 HVLP, AND WAGNER T-10 AIRLESS SPRAY GUNS. A HERKULES GUN WASHER IS USED FOR EQUIPMENT CLEANUP.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [27C] Marine Coating - Additional
1 [49A] *Non-Operational Status Equipment*

BEC: APCD2010-CON-000132

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. This equipment shall not be operated at any time except where limited use of this equipment is allowed without a permit to operate under a Rule 11 exemption. This limited usage shall be subject to all other applicable prohibitory rules. All records and data necessary to substantiate this Rule 11 exemption shall be maintained on site for a minimum of three calendar years and made available to the District upon request.
2. If the previously applicable permit to operate (prior to inactivation) required source testing, the equipment shall be source tested within 60 calendar days of permit reactivation. This source testing is required to demonstrate compliance with emission standards contained in the previously applicable permit to operate, it is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District.
3. The permittee shall submit an application and obtain written approval from the District prior to operating the equipment under inactive status. In the event new or additional requirements are applicable to this equipment upon reactivation, the permittee shall submit an application and additional information with corresponding fees to demonstrate how the permittee will comply with the new or additional requirements and to add corresponding permit conditions.
4. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
5. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: N/A

PERMIT ID
APCD2005-PTO-030718

6. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 27 – MARINE COATING OPERATIONS

ID #: 00204 Permit / Registration #: 30718 Date of Inspection: 2/21/14

Facility: BAE Systems, foot of Sampson St, SD 92113 Date of Expiration: 9/14

Representative: Cara Banderas Title: Env Spvsr Phone: 619-557-4209

EQUIPMENT DESCRIPTION

1a. Equipment same as described on permit to operate? YES ☒ Yes ☐ No

1b. If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No

Description of changes: _____

2a. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No

2b. Ownership verified? YES ☒ Yes ☐ No

3. Permit conditions reviewed (current / enforceable)? YES ☒ Yes ☐ No

(If no, complete permit condition change request and describe changes in the comments section)

EQUIPMENT INSPECTION

4. Equipment observed in operation? NO ☐ Yes ☒ No

5. VOC materials stored in closed containers? UTD ☐ Yes ☐ No *Rule 67.17*

If no, indicate size of containers, content and quantity below:

Size of Container	Contents	Quantity

6. Is an oven used to bake marine coatings above 194 °F? _____ ☐ Yes ☒ No

If yes, what is the oven temperature? _____

7. Facility using compliant surface preparation solvents? _____ ☒ Yes ☐ No *Rule 67.18(d)(4)*

a. Mfg. Name / ID#: _____ VOC Content: _____

b. or Boiling Point: _____ or Vapor Pressure: _____

8. Facility using compliant gun cleaning solvent or cleaning method? UTD ☒ Yes ☐ No *Rule 67.18(d)(3)*

State cleaning method used: _____

Gun cleaning solvent: a. Mfg. Name / ID#: _____ VOC Content: _____

b. or Boiling Point: _____ or Vapor Pressure: _____

9. COATINGS / SOLVENTS *Rule 67.18(d)(1), (d)(2)*

Mfg Name / ID#	Coating Category	Mix Ratio	VOC Content as applied	VOC Standard	Compliant with Rule 67.18
P C R					
P C R					
P C R					
P C R					
P C R					
P C R					

10. Does the facility have a control device? _____ ☐ Yes ☐ No ☒ N/A *Rule 67.18(e)*

If yes, state the type of control device: _____

a. What are the specified operating parameters: _____

_____

b. Is the control device operating within the specified parameters? ☐ Yes ☐ No

c. List operating parameters at time of inspection: _____

_____

RECORDKEEPING

11. Facility has a current list of coatings? YES ☒ Yes ☐ No *Rule 67.18(f)(1)*

12. Facility has current MSDS / product data information to substantiate specialty coating categories? YES ☒ Yes ☐ No *Rule 67.18(f)(1)(ii)*

13. Facility keeping daily or monthly usage records of all coatings used? N/A ☐ Yes ☐ No *Rule 67.18(f)(1)(iii)*

14. Facility keeping daily or monthly usage records of surface prep and

cleaning solvents? N/A ☐ Yes ☐ No *Rule 67.18(f)(1)(iii)(C)*

15. Facility keeping monthly usage records of material additions to dip tanks? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(D)*

16. Facility maintaining records of oven temperature? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(B)*

17. Facility keeping daily records of emission control equipment operating parameters? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

18. Facility maintaining inspection and maintenance schedules for the control equipment? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

EMISSION REQUIREMENTS / SOURCE TESTING

19. Daily facility emission limit per the permit to operate? _____

20. Is the facility exceeding the daily emission limit? NO ☐ Yes ☒ No *Rule 21*

If yes, state the number of days the facility exceeded the emission limit: _____

Indicate the facility daily usage for,

a. Coatings: _____

b. Surface Preparation Solvents: _____

c. Cleaning Solvents: _____

21. Is the facility required to be source tested? NO ☐ Yes ☒ No *Rule 21*

If yes, state the source test frequency and the results of the last source test: _____

COMPLIANCE ACTIONS

22. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NTC items below:

23. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NOV items below:

Additional Comments: 49A Inactive status

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 2/27/14

AQIII Initials: _____ Date: _____

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1999-NOV-209131	09/27/1999		Closed

Type
LUEG-APCD/ComplianceNotice of ViolationNA

Short Notes

Detailed Description

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
-Select-		-Select-		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
-Select-		-Select-		1,000.00	1,000.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

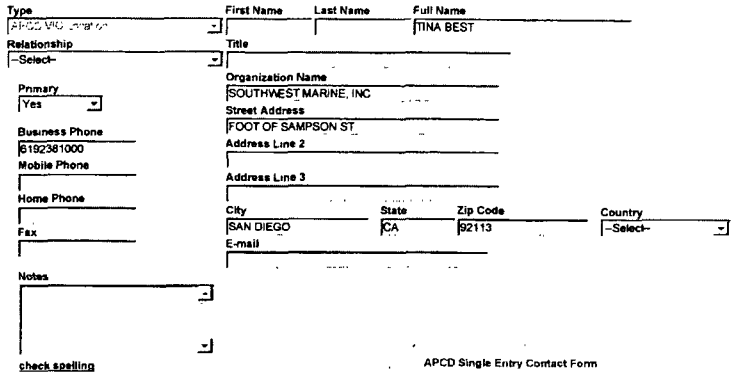
Search As Contact

Type * APCD VIO Mailing
Relationship -Select-
Primary Yes
Business Phone 6192381000
Mobile Phone
Home Phone
Fax
First Name Last Name Full Name TINA BEST
Title
Organization Name SOUTHWEST MARINE, INC
Street Address PO BOX 13308
Address Line 2
Address Line 3
City SAN DIEGO State CA Zip Code 92170 Country -Select-
E-mail
Notes

check spelling

APCD VIO Location *(This section is not required)*

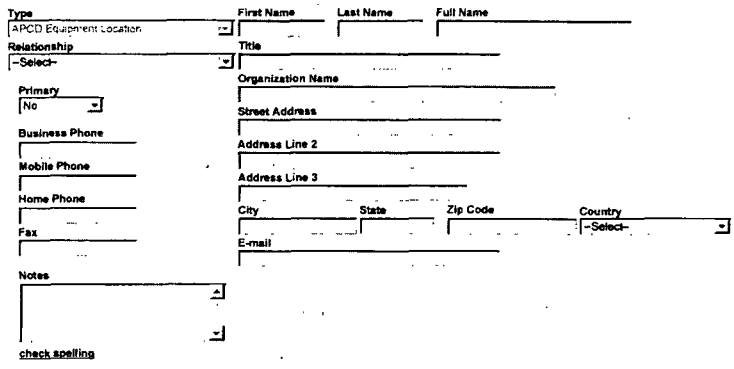
Search As Contact



APCD Single Entry Contact Form

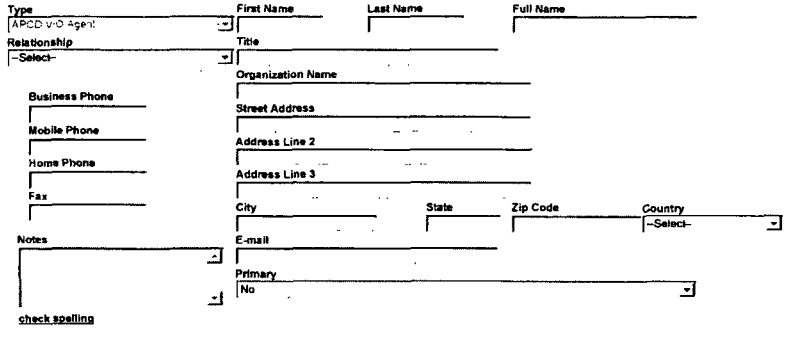
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	PO COND #1-APPLYING COATINGS INSIDE THE PAINT SPRAY BOOTH WHILE	Permit conditions	
21	PO COND #4-FAILING TO KEEP SOLVENTS & MATERIALS CONTAINING VOC'S	Permit conditions	
10(a)	MODIFYING A FIBERGLASS MACHINING PROCESS WITHOUT FIRST OBTAININ	No Authority to Construct	
67.17(d)(2)	ONE 1-GAL. OPEN CONTAINER WITH A SOLVENT WAS OBSERVED INSIDE THE	Open VOC Containers - Wastes	
21	PO COND. #11-FAILING TO CHECK THE DUST COLLECTOR FOR PROPER OPE	Permit conditions	
21	PO COND. #6-FAILING TO MAINTAIN A CONTINUOUS INSPECTION & MAINTEN	Permit conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 209131

Asbestos Reference Number:

Complaint Reference Number:

Inspection Type [Method]: --Select--

Date NOV Issued: 09/27/1999

Date Violation began: 02/02/1998

Date Violation Ends: 09/21/1999

Statute of Limitations:

Inspector: JZL

Received by:

Title of recipient:

Certified Mailing Number:

Certified Mailing Date:

Return Receipt Received: Yes No

Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date:

File to CAI: 11/05/1999

Senior Inspector Comments

check spelling

Settlement Details

HPV
Yes No

1st Offer letter Date: 12/14/1999
1st Offer Amount: 1000.00
Maximum Penalty: -Select-

1st offer comments
MS1S

2nd Offer Letter Date
2nd Offer Amount

2nd offer comments

Referred to: -Select-
Hearing Board Number

Date Case Referred
Date Complaint Filed
Trial Date
Judgment: Yes No
Judgment amount

Case Number
Case comments

Result: FI
Date of Payment: 01/10/2000
Final Date: 01/10/2000
Civil Actions Investigator: EGW
Negotiated Amount

Legacy Data

Disposition: MS
Disposition Comments

Method: AI

APCD NOV Form - Rev July 2012

Related Records

1 2

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2012-INA-000081		LUEG-APCD/Administrative/Change/Inactivation	Complete	09/19/2012				M
APCD2012-APP-002046	LKR to PO 930298	LUEG-APCD/Permit App/Abrasive Blasting/Blast Rooms	Approved	03/27/2012	SMARECHA	COSD/LUEG		
APCD2010-NOV-000333	221365	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	04/16/2010	Greg Gjerde	COSD/LUEG..		
APCD2005-PTO-900223		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				FI
APCD2003-PTO-860182		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2003-PTO-890175		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-PTO-030718		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				M
APCD2008-PTO-930298		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				A
APCD2009-NOV-220430		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	05/13/2009	Greg Gjerde	COSD/LUEG	Greg Gjerde	
APCD2009-HBD-04290		LUEG-APCD/Variance App/Variance/NA	Closed	05/07/2009			Heidi Pack	

1 2

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date *	Closed Date	Status
APCD2010-PTO-000707	12/16/2011		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes
New app for existing engine

Detailed Description
Registration of Portable Diesel engine, 1981 Cummins, Model: 9750, S/N: 10629770, 310 BHP, turbocharged and aftercooled. Engine is located on a floating barge (subject to Harbor Craft ATCM)
App# APCD2010-CER-000226, APCD2011-CER-000284

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
APCD Permit Processing	Cynthia Gould	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Engineering	--Select--	302.00	302.00	0.00

Expiration Status	Expiration Date	Record Name
About To Expire	09/30/2013	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location	Director of	Environmental Ser	Director of Environmental Services

Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE Systems SDSR
Business Phone: 619-238-1000
Street Address: 2205 E Belt St
Mobile Phone:
Address Line 2: Foot of Sampson St
Home Phone:
Address Line 3:
Fax:

City	State	Zip Code	Country
San Diego	CA	92113	United States

E-mail:
Notes:

check spelling

APCD Invoice Mailing *(This section is not required)*

Search As Contact

Type: APCD Invoice Mailing | First Name: Accounts | Last Name: Payable | Full Name: Accounts Payable

Relationship: --Select-- | Title:

Primary: No

Organization Name: BAE Systems SDSR

Street Address: PO Box 470788

Business Phone: 619-238-1000

Address Line 2:

Mobile Phone:

Address Line 3:

Home Phone:

City: Charlotte | State: NC | Zip Code: 28247 | Country: United States

Fax:

E-mail:

Notes:

check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required.)*

Search As Contact

Type: APCD PTO Mailing | First Name: Director of | Last Name: Environmental S | Full Name: Director of Environmental Services

Relationship: --Select-- | Title:

Primary: No

Organization Name: BAE Systems SDSR

Street Address: 2205 E Belt

Business Phone: 619-238-1000

Address Line 2: Foot of Sampson

Mobile Phone:

Address Line 3:

Home Phone:

City: San Diego | State: CA | Zip Code: 92113 | Country: --Select-

Fax:

E-mail:

Notes:

check spelling

- Permit to Operate

Permit Description:

Registration of Portable Diesel engine, 1981 Cummins, Model: 9750, S/N: 10929770, 310 BHP, turbocharged and aftercooled
Engine is located on a floating barge (subject to Harbor Craft ATCM)
Appl# APCD2010-CER-000226, APCD2011-CER-000284

check spelling

Renewal Information

Expiration Month: 10/2013 | Delinquent Month:

Source Test Information

Source Test Required: (•) Yes ( ) No

BEC: APCD2010-CON-000236 | Type - [Portable/Stationary]: Portable | Legacy Data

Source Test Alias:

Throughput: | Unit of Measure: | Inspection Frequency: Annual | Legacy Reference ID:

Source Test Frequency: --Select-

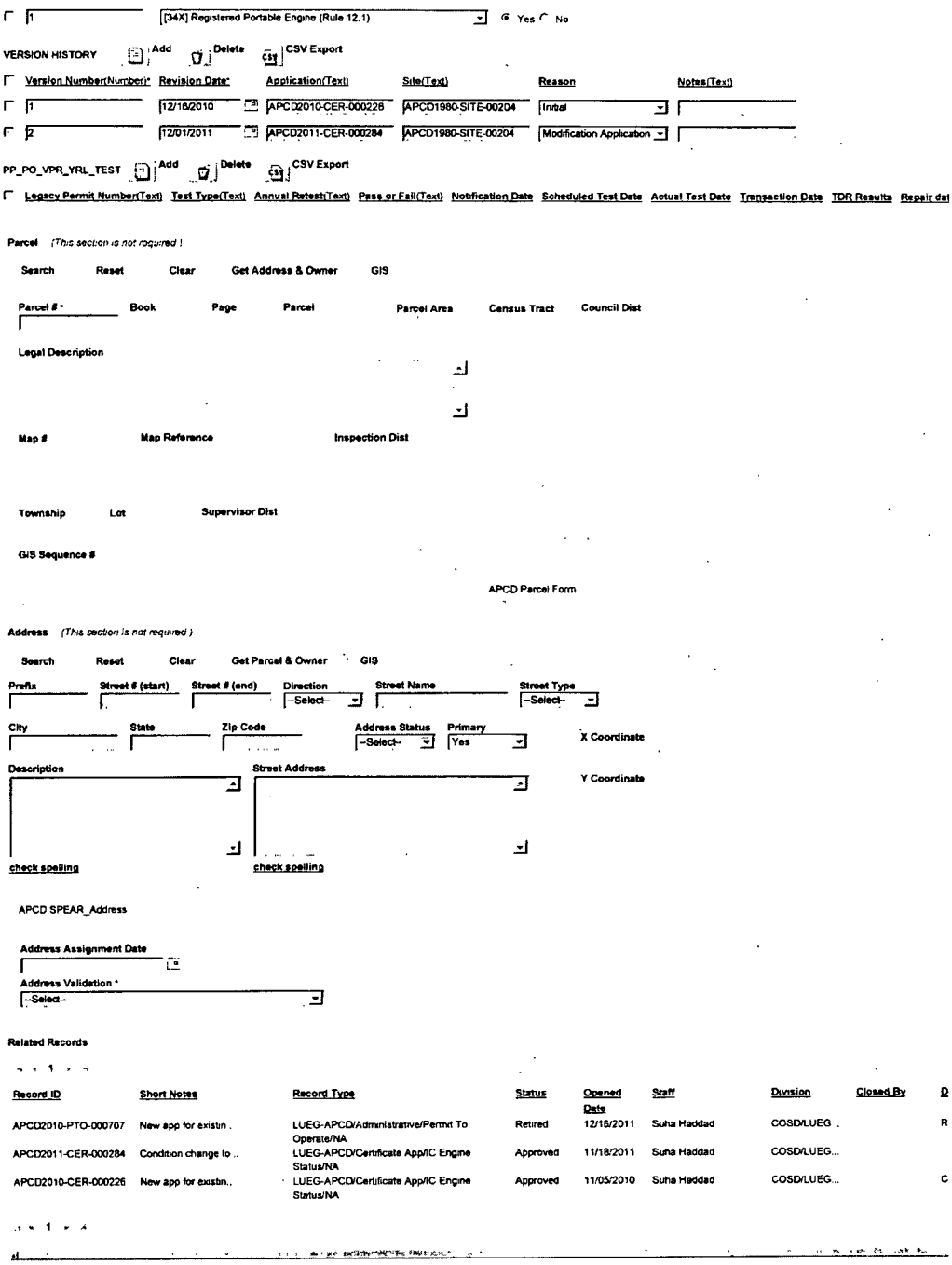
Capacity: 310 | Unit of Measure 2: bhp | Inspection Date: | Legacy BEC: APCD2010-CON-000236

Remarks:

RSI APCD_PER Ver. Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units/Number | Equipment Type | Assess on Renewal



1 [34X] Registered Portable Engine (Rule 12.1) Yes No

VERSION HISTORY Add Delete CSV Export

Version Number(Number)*	Revision Date*	Application(Text)	Site(Text)	Reason	Notes(Text)
1	12/18/2010	APCD2010-CER-000226	APCD1980-SITE-00204	Initial	
2	12/01/2011	APCD2011-CER-000284	APCD1980-SITE-00204	Modification Application	

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text)	Test Type(Text)	Annual Retest(Text)	Pass or Fail(Text)	Notification Date	Scheduled Test Date	Actual Test Date	Transaction Date	TDR Results	Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction --Select-- Street Name Street Type --Select--

City State Zip Code Address Status --Select-- Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation * --Select--

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-PTO-000707	New app for existn .	LUEG-APCD/Administrative/Permit To Operate/NA	Retired	12/18/2011	Suha Haddad	COSD/LUEG .		R
APCD2011-CER-000284	Condition change to ..	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/18/2011	Suha Haddad	COSD/LUEG...		
APCD2010-CER-000226	New app for existn..	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG...		C

1

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PORTABLE
Site ID: APCD1980-SITE-00204
App ID: APCD2013-CER-000449

PERMIT ID
APCD2013-PTO-001647

BAE Systems San Diego Ship Repair Inc.
Director of Environmental Services
P. O Box 13308
San Diego CA 92170

EQUIPMENT ADDRESS
BAE Systems
2205 E Belt St Foot of Sampson St
San Diego CA 92113

CERTIFICATE OF REGISTRATION

EXPIRES: September 30, 2014

This Certificate is not valid until required fees are received by the District.

The above is hereby granted a Certificate of Registration for the article, machine, equipment or contrivance described below. This Certificate of Registration is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Certificate of Registration or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

Portable diesel engine, Cummins Model QSL9, S/N: 73524323, 260 BHP, Model Year 2013, EPA certified Tier 4i offroad, engine family DCEXL08.9AAH. Equipped with an OEM diesel particulate filter and diesel oxidation catalyst. Powering a heavy lift crane on a floating barge.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 2, 12/12.1, 40, 50, 51.

Fee Schedules: 1 [34X] Registered Portable Engine (Rule 12.1)

BEC: APCD2013-CON-000664

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. The total NOX or VOC emissions from a unit shall not exceed 100 pounds during any one day for each pollutant.

2. PM10 emissions, excluding area fugitives, from a unit shall not exceed either 0.10 grains per dry standard cubic foot or 150 pounds per day.

3. The actual emissions of any air contaminant, except area fugitive emissions from this unit, as verified by required recordkeeping, shall not exceed 10 tons per calendar year (January through December) in any Air Pollution Control District in which such unit is operated.

4. Except for emergency operations, an emission unit shall not be operated within 1,000 feet of any K-12 school

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PERMIT ID
APCD2013-PTO-001647

CERTIFICATE OF REGISTRATION

EXPIRES: September 30, 2014

unless California Health and Safety Code section 42301.6 is met.

5. This engine shall use only CARB diesel fuel. (Rule 12.1)

6. The operator shall notify the District within 2 days from when a registered unit is relocated into the District. The notification shall be as specified in Rule 12.1.

7. The following records regarding operation of this equipment in San Diego County shall be maintained and made available to the District for at least 2 years from the date recorded. Records shall be provided to each participating Air Pollution Control District in which the equipment was operated within 30 days after the end of every calendar quarter:
   I. The date and locations at which the equipment was operated.
   II. Date and hours of operation or the type and quantity of fuels consumed on a daily basis.

8. The permittee shall maintain all information required by 17 CCR Section 93118.5(g) on the vessel or at the vessel's homeport for the life of the engine. This information shall be made available to District personnel upon request.

9. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
   (a) old meter's hour reading
   (b) replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter
   (c) copy of receipt of new meter or of installation work order. A copy of the meter replacement notification shall be maintained onsite and made available to the Air Pollution Control District upon request.
   (17 CCR 93118.5)

10. Visible emissions including crank case smoke shall comply with Rule 50. (Rule 50)

11. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)

12. An emission unit is not portable if any of the following apply:
    The unit, or its replacement, is attached to a foundation or, if not so attached, will reside at the same location for more than 12 consecutive months; or
    The emission unit remains or will reside at a location for less than 12 consecutive months if the unit is located at a seasonal source and operates during the full annual operating period of the seasonal source; or
    The emission unit is moved from one location to another in an attempt to circumvent the portable emission unit residence time requirements.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
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PERMIT ID
APCD2013-PTO-001647

CERTIFICATE OF REGISTRATION

EXPIRES: September 30, 2014

13. In the event that a portable emission unit is not portable the holder of this certificate of registration shall submit an application for a Permit to Operate to the District.

14. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

15. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.

16. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1998-NOV-206298	08/17/1998		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	125.00	125.00	0.00

Expirstion Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			LENA BEST

Relationship: -Select-
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92170	-Select-

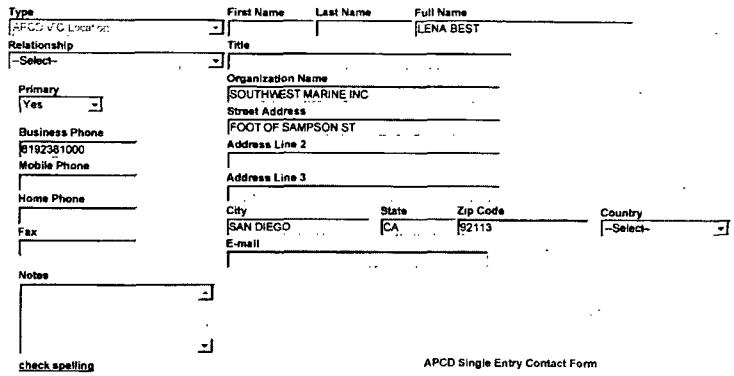
Fax:
E-mail:

Notes

check spelling

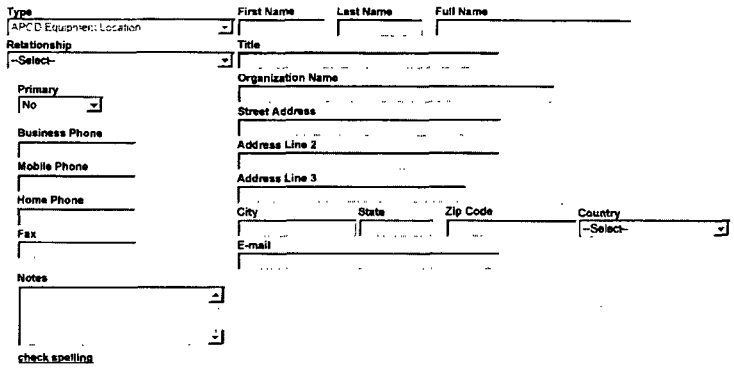
APCD VIO Location *(This section is not required)*

Search As Contact



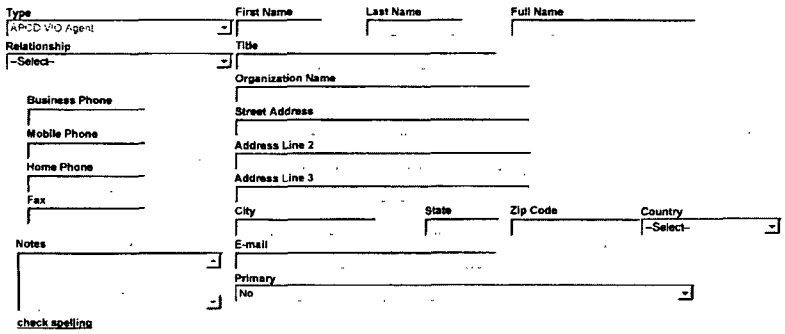
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
41960.2		Gasoline VaporControl - maintenance	
21	COND. #8- HAVING AVAILABLE FOR USE A NOZZLE WHICH CONTAINS DEFEC	Permit conditions	
61.4(c)(5)	A VAPOR RETURN LINE SLIT, AT THE OVERHEAD RETRACTOR, MEASURING 1	VOC's into vehicle Fuel Tanks - dispensing of fuel when there is a	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 206298

Asbestos Reference Number:

Complaint Reference Number:

Inspection Type [Method]: --Select--

Date NOV Issued: 08/17/1998

Date Violation began: 08/14/1998

Date Violation Ends:

Statute of Limitations:

Inspector: LLS

Received by:

Title of recipient:

Certified Mailing Number:

Certified Mailing Date:

Return Receipt Received: Yes No

Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date:

File to CAI: 10/12/1998

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 10/27/1998

1st Offer Amount: 125.00

Maximum Penalty: --Select--

1st offer comments: MS1S

2nd Offer Letter Date | 2nd Offer Amount

2nd offer comments

Referred to | Hearing Board Number

--Select--

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (Yes / No) | Judgment amount

Case Number | Case comments

Result | Date of Payment | Final Date | Civil Actions Investigator | Negotiated Amount

FI | 07/31/2009 | 11/13/1998 | EGW

Legacy Data

Disposition | Disposition Comments

MS

Method

AI

APCD NOV Form - Rev July 2012

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-VRT-0851	870676	LUEG-APCD/Compliance/Vapor Recovery/Test Notification	Cancelled	07/24/2013	Richard Brey	COSD/LUEG...		
APCD2012-VRT-0840	870676	LUEG-APCD/Compliance/Vapor Recovery/Test Notification	Reviewed - Inspector	07/11/2012	Gerhard Wolff	COSD/LUEG .		
APCD2011-VRT-0787	PO# 870676	LUEG-APCD/Compliance/Vapor Recovery/Test Notification	Reviewed - Inspector	07/27/2011	John Gervasi	COSD/LUEG.		
APCD2009-PTO-870676		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				G
APCD2008-APP-987331		LUEG-APCD/Permit App/Vapor Recovery/NA	Closed	10/01/2008	Joe Herzig	COSD/LUEG...	Rose Iuliano	M
APCD2006-NTC-20580		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	08/10/2006	Greg Gjerde	COSD/LUEG .		
APCD2002-APP-978469		LUEG-APCD/Permit App/Vapor Recovery/EVR Phase II OTC	Approved	08/20/2002	MXC	V		T,
APCD1998-NOV-206298		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	08/17/1998				

1

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10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD1998-APP-972263

PERMIT ID
APCD2005-PTO-900222

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

FIBERGLASS/POLYESTER/EPOXY RESIN OPERATION: CONDUCTED OUTDOOR FOR SHIPS' STRUCTURES (MASTS, DECKING, SHAFTS AND RAILS), USING ROLLERS & BRUSHES FOR HAND LAYUP.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [27F] Fiberglass/Plastic/Foam Process Line

BEC: 11339

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Annual emissions of the following Toxic Air Contaminants (TAC) from this equipment shall be less than the following: 62.8 lb of styrene and 33 lbof 1, 1, 1 trichloroethane (or tca). These equate to usage of approximately 150 gal of polyester resin and 5 gal of tca solvent in any consecutive 12-months of operation. These emissions calculations are based on polyester resins containing 4.2 lb styrene/gal and on solvents containing 6.6 lb TCA/gal.
2. Permittee shall use only the application equipment specified above. Any change in application method will require modification of this Permit to Operate.
3. Permittee shall not use materials that contain Toxic Air Contaminants (TAC) listed in Rule 1200 except styrene and 1, 1, 1 trichloroethane (synonym for methyl chloroform) as it exists on November, 1998.
4. Daily or monthly records shall be maintained showing the type and amount of resin including hardener, catalyst and solvents used. These records shall be maintained on-site for at least three years and made available to the District upon request.
5. Permittee shall maintain a current list of all polyester resin materials and gel coats used, which provides the manufacturer's identification, material specifications, monomer content, content of any catalysts, fillers and or diluents, including thinner, and type of each e resin (i.e. regular, vapor-suppressed, corrosion-resistant, or fire retardant) or gel coat (i.e.pigmented or clear).
6. Permittee shall comply with all other applicable provisions of Rule 67.12.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
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Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD1998-APP-972263

PERMIT ID
APCD2005-PTO-900222

7. Permittee shall maintain current MSDS's or manufacturer's specifications on-site which identify the VOC content, vapor pressure or initial boiling point, as applicable, for all materials containing organic solvents used in the operation described above.
8. Self-closing containers shall be used for storing, except during the transfer of resin or solvent, all polyester resin, VOC containing cleaning materials and solvent-laden rags, including waste materials.
9. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
10. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
11. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 27 – POLYESTER RESIN

ID #: 00204 Permit / Registration #: 900222 Date of Inspection: 11/15/13

Facility: BAE Systems, foot of Sampson St, SD 92113 Date of Expiration: 9/14

Representative: Cara Bandera Title: Env Supervisor Phone: 619-557-4209

EQUIPMENT DESCRIPTION

1a. Equipment same as described on permit to operate? YES ☒ Yes ☐ No

1b. If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No

Description of changes: _____

2a. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No

2b. Ownership verified? YES ☒ Yes ☐ No

3. Permit conditions reviewed (current / enforceable)? YES ☒ Yes ☐ No

(If no, complete permit condition change request and describe changes in the comments section)

EQUIPMENT INSPECTION

4. Equipment observed in operation? NO ☐ Yes ☒ No

5. Are resins and gelcoats applied in a spray booth? NO ☐ Yes ☒ No

If no, state where resins and gelcoats are applied: Enclosed tarp building served by filtered fans

a. Are booth filters in place and in good condition? _____ ☐ Yes ☐ No *Rule 21*

b. Are the fans operational? _____ ☐ Yes ☐ No *Rule 21*

6. VOC materials stored in self-closing containers? _____ ☐ Yes ☐ No *Rule 67.12(d)(iv)*

7. Is the facility conducting grinding, cutting and sanding operations within a controlled enclosure or by use of a controlled process? NO ☐ Yes ☒ No *Rule 67.12(d)(v)*

Briefly describe: _____

8. Facility using compliant application equipment? YES ☒ Yes ☐ No *Rule 67.12(d)(vii)*

Type of application equipment used? Airless (chopper style) gun

For HVLP equipment:

Does the facility have an air cap pressure gauge for HVLP paint spray guns? N/A ☐ Yes ☐ No

9. Are cleanup materials reclaimed: *Rule 67.12(d)(vi)*

a. On site ☐ Yes ☒ No Type of reclamation system used: soap, water and some MEK Peroxide

b. Offsite ☐ Yes ☒ No State name and location of recycler: _____

10. In lieu of reclamation, is the facility using cleanup materials that meet one of the following standards?

a. Solvent has a VOC content of 200 g/l or less ☒ Yes ☐ No *Rule 67.12(d)(vi)(A)*

b. Solvent has an initial boiling point of 190° C ☐ Yes ☐ No *Rule 67.12(d)(vi)(B)*

c. Average daily usage of non-compliant solvent is less than 0.5 gal / day. ☒ Yes ☐ No *Rule 67.12(d)(vi)(C)*

11. RESIN / GELCOATS

Mfg Name / ID	Type	Monomer Content	Standard	Compliant with Rule 67.12
Evercoat Bondo/Hardner	Resin	20%	35%	Yes
C-Ville 3M	Resin	30%	35%	Yes

RECORDKEEPING

12. Facility has a current list of resin, gelcoats, and cleaning materials used? YES ☒ Yes ☐ No *Rule 67.12(f)(1)*

13. Facility has current MSDS / product data information? YES ☒ Yes ☐ No *Rule 67.12(f)(2)*

14. Facility keeping daily or monthly usage records of all resins and gelcoats used? YES ☒ Yes ☐ No *Rule 67.12(f)(3)*

15. Facility keeping daily or monthly usage records of cleaning materials used? YES ☒ Yes ☐ No ☐ N/A *Rule 67.12(f)(3)*

EMISSION REQUIREMENTS / SOURCE TESTING

16. What is the facility's permitted emission limit? 62.8 lb styrene, 33lb TCA/12 mth

17. Is the facility exceeding the permitted emission limit? NO ☐ Yes ☒ No ☐ N/A *Rule 21*

If yes, state the number of days the facility exceeded the emission limit: _____

If no, indicate the facility daily usage for,

a. Resins: 5.8 lbs of Styrene August 2012-August 2013

b. Gelcoats: _____

b. Cleaning Solvents: _____

COMPLIANCE ACTIONS

18. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NTC items below:

19. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____

Rules:

List NOV items below:

Additional Comments: Limited use of Styrene containing material.

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 11/22/13

AQIII Initials: Date: 12/9/2013

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1998-NOV-206297	08/17/1998		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
--Select--		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
--Select--		--Select--		0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

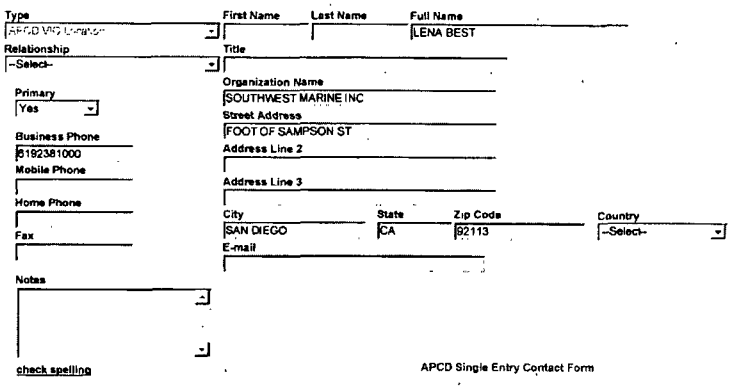
Search As Contact

Type * APCD VIC Mailing
First Name
Last Name
Full Name: LENA BEST
Relationship: --Select--
Title
Organization Name: SOUTHWEST MARINE INC
Primary: Yes
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2
Mobile Phone
Address Line 3
Home Phone
City: SAN DIEGO
State: CA
Zip Code: 92170
Country: --Select--
Fax
E-mail
Notes

check spelling

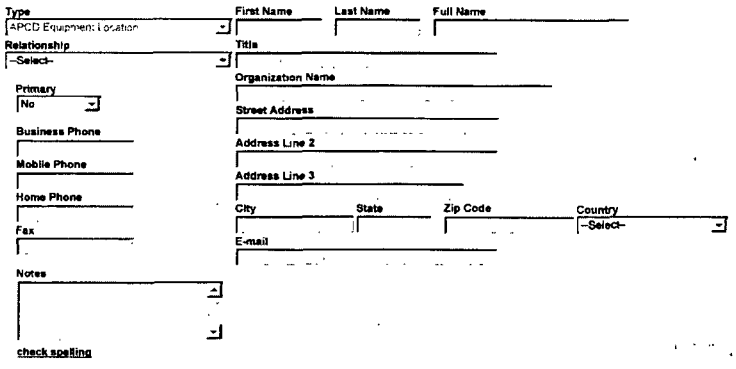
APCD VIO Location *(This section is not required)*

Search As Contact



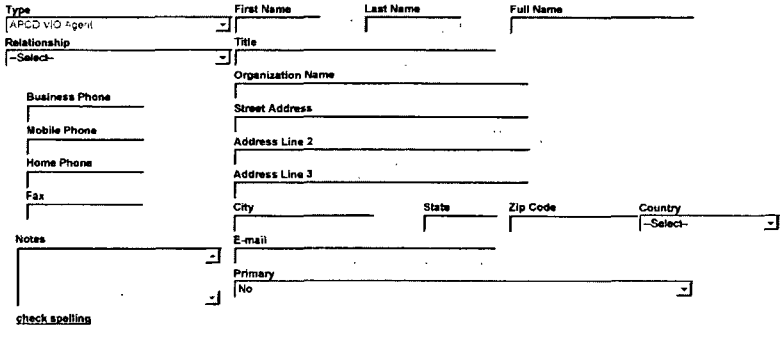
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	USING MORE THAN 5 GALLONS OF POLYESTER MATERIAL PER DAY.	Permit conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 206297

Asbestos Reference Number:

Complaint Reference Number:

Inspection Type [Method]: --Select--

Date NOV Issued: 08/17/1998

Date Violation began: 02/03/1996

Date Violation Ends: 02/06/1996

Statute of Limitations:

Inspector: LLS

Received by:

Title of recipient:

Certified Mailing Number:

Certified Mailing Date:

Return Receipt Received: Yes No

Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date:

File to CAI: 10/12/1998

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 10/23/1996

1st Offer Amount:

Maximum Penalty: --Select--

1st offer comments: NFA

2nd Offer Letter Date:

2nd Offer Amount:

2nd offer comments:

Referred to: -Select-

Hearing Board Number:

Date Case Referred:

Date Complaint Filed:

Trial Date:

Judgment: Yes / No

Judgment amount:

Case Number:

Case comments:

Result: NFA

Date of Payment:

Final Date: 10/13/1998

Civil Actions Investigator: EGW

Negotiated Amount:

Legacy Data:

Disposition: MS

Disposition Comments:

Method: AI

APCD NOV Form - Rev July 2012

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2005-PTO-900222		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				FI
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG..		
APCD1998-APP-972263		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	10/14/1998	ATS	C		M
APCD1998-NOV-206297		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	08/17/1998				

1

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2012-APP-002046

PERMIT ID
APCD2008-PTO-930298

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

Abrasive blast room with recycling equipment: blast room (50ft x 70ft x 31ft h) custom made with metallic rolling doors for access. Dust control equipment Torit Dust collector, Model: 4DF48, Serial No.: 242074, with 48 cartridge filters, dust collection efficiency: 99.99% at 5 microns. Total system flow rate: 23,000 cu ft min driven by a 100 hp fan. Four (4) 6.0 cu.ft. capacity Clemco Model 2452 abrasive blast machines, two (2) Clemco Industries Corporation media recovery systems, each with a reclaimer/ hopper and associated ductwork, Serial Nos. 51905 & 52812, each hopper with 106 cu. ft. capacity, with each hopper serving a single reverse pulse type dust collector with cartridge filters and a differential gauge. One (1) 120 cu.ft. and 6-ton capacity Clemco model Big Clem abrasive blast machine with Serial No. 50811; 600 lb abrasive blast pot. (jftapp979485revjun2403)(eadapp982719revnov0607)(APCD2009-APP-987935/CCN/Sep 2010)

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [02B] Abrasive Blasting Cabinet

BEC: APCD2010-CON-000209

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. A continuous inspection/maintenance log book shall be maintained with the description of any inspection and/or maintenance and the date of the activity. All entries into the log book shall occur on the day of the inspection/maintenance activity. This log book shall be made available to the District upon request.
2. A differential pressure gauge shall be installed across the dust collector filter media and maintained in good working order at all times to measure the pressure drop across the filters. The pressure drop across the filter media shall be maintained between 0.1 and 7 inches of water. The gauge readings shall be noted in an equipment logbook on each day of equipment use. The logbook shall be kept on site and made available to the district upon request.
3. Damaged filters shall be replaced prior to reuse of the control equipment.
4. The blast room and the abrasive recycling system shall be vented to the dust collector. To avoid fugitive emissions, these operations shall occur only with the blast room access way closed.
5. As a used filter is removed for replacement, inspection, or disposal, the filter shall be placed immediately into a plastic bag to minimize dust emissions. A filter shall be disposed of only if it is in a sealed container that will minimize dust emissions.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2012-APP-002046

PERMIT ID
APCD2008-PTO-930298

6. The differential pressure gauge readings, taken across the filters before and after filter cleaning shall be recorded in the log book during equipment use at least once on each day of equipment use.
7. All dust collected shall be stored in a sealed container pending disposal or removal form the premises. There shall be no open disposal of collected dust.
8. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
9. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
10. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 02 – ABRASIVE BLASTING CABINETS / ROOMS / BOOTHS

Company Name (d.b.a.): BAE Systems, 2205 Belt St., SD 92113

Company Representative: Cara Bandera Title: Env. Spvsr.

Id #: 00204 Permit #: 930298 Date of Expiration: 9/14

Date of Inspection: 11/14/13

EQUIPMENT DESCRIPTION

1. Equipment same as described on permit to operate? YES ☒ Yes ☐ No
   If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No
   Description of changes:

2. Are permit conditions current and enforceable? YES ☒ Yes ☐ No
   (If no, complete permit condition change request and describe changes in the comments section)
3. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No
4. Ownership verified? YES ☒ Yes ☐ No

EQUIPMENT INSPECTION

5. Equipment observed in operation? NO ☐ Yes ☒ No
6. Records kept? YES ☒ Yes ☐ No ☐ N/A
   If yes, amount of Abrasive Used: No limit
7. Type of Abrasive Used: Steel/Cu grit, Red Garnet
8. Type of Control Equipment: Filters
   Operating Parameters (magnehelic gauge reading, etc.): 0.1"- 7" h20; Actual: 3.8" h20
9. Fugitive Emissions: NO ☐ Yes ☒ No ☐ N/A
   Location:
10. Rule 50 Visible Emissions Compliance? YES ☒ Yes ☐ No ☐ N/A
    If no, Opacity: % *(See V/E Evaluation Sheet)*

COMPLIANCE ACTIONS

11. Notice to Comply Issued? NO ☐ Yes ☒ No Document No.
    Rules:
    List NTC items below:

12. Notice of Violation Issued? NO ☐ Yes ☒ No Document No.

Rules:

List NOV items below:

Additional Comments: Logbook of operating conditions reviewed not reviewed due to time constraints. Will review during next quarter inspection in February 2014.

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 11/22/13

AQIII Initials: Date: 11/22/2013

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2000-NOV-210275	10/16/2000		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
--Select--		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
--Select--		--Select--		500.00	500.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD V O Mailing			MAILED CERTIFIED

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE
Street Address: PO BOX 13308
Business Phone: 8192361000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

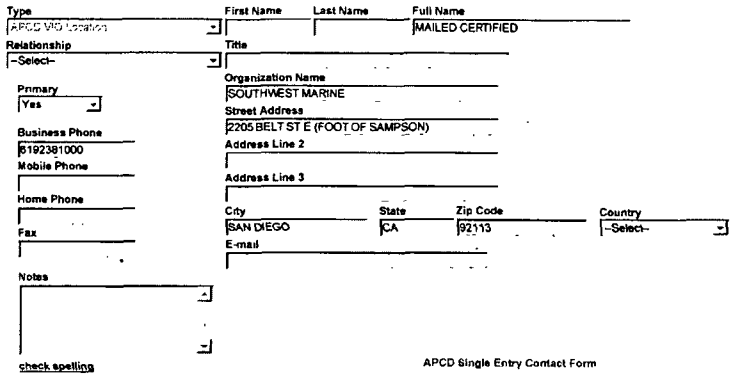
City	State	Zip Code	Country
SAN DIEGO	CA	92170	--Select--

Fax:
E-mail:
Notes:

check spelling

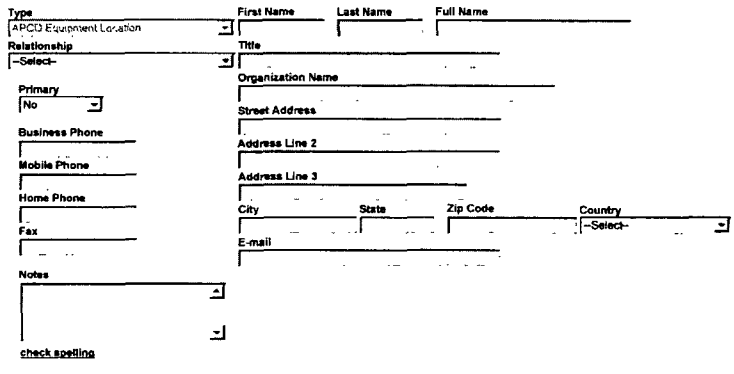
APCD VIO Location *(This section is not required)*

Search As Contact



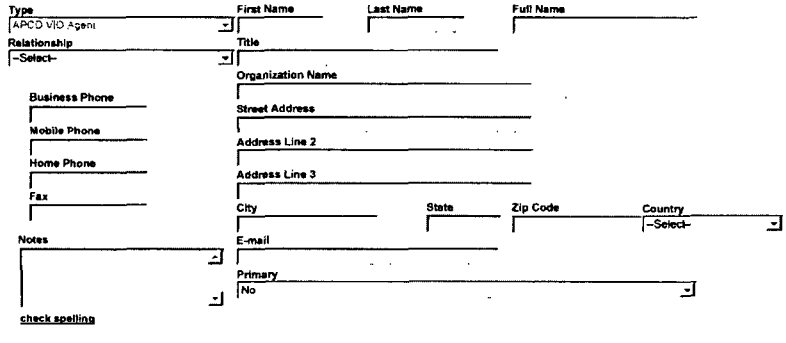
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	COND. #2-NO CONTINUOUS INSPECTION/MAINTENANCE LOG BOOK WAS MAI	Permit Conditions	
21	COND. #11-DUST COLLECTOR WAS NOT LEAK CHECKED AT LEAST EVERY SI	Permit Conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 210275

Asbestos Reference Number

Complaint Reference Number

Inspection Type (Method): --Select--

Date NOV Issued: 10/16/2000

Date Violation began: 10/16/2000

Date Violation Ends

Statute of Limitations

Inspector: PVW

Received by

Title of recipient

Certified Mailing Number

Certified Mailing Date

Return Receipt Received: Yes No

Return Receipt Received Date

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date

File to CAI: 12/20/2000

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 03/13/2001

1st Offer Amount: 500.00

Maximum Penalty: --Select--

1st offer comments: MS1

2nd Offer Letter Date | 2nd Offer Amount

2nd offer comments

Referred to | Hearing Board Number
--Select--

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (Yes / No) | Judgment amount

Case Number | Case comments

Result	Date of Payment	Final Date	Civil Actions Investigator	Negotiated Amount
FI	05/08/2001	05/08/2001	GAG	

Legacy Data

Disposition	Disposition Comments
MS	CMB WI210264 TL $2,750

Method
AI APCD NOV Form - Rev July 2012

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2012-APP-002046	LKR to PO 930298	LUEG-APCD/Permit App/Abrasive Blasting/Blast Rooms	Approved	03/27/2012	SMARECHA	COSD/LUEG. .		
APCD2010-NOV-000333	221365	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	04/16/2010	Greg Gjerde	COSD/LUEG..		
APCD2008-PTO-930298		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				A
APCD2009-NOV-220430		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	05/13/2009	Greg Gjerde	COSD/LUEG .	Greg Gjerde	
APCD2009-HBD-04290		LUEG-APCD/Variance App/Variance/NA	Closed	05/07/2009			Heidi Pack	
APCD2009-APP-987935		LUEG-APCD/Permit App/Abrasive Blasting/Blast Rooms	Approved	03/26/2009	Camqui Nguyen	COSD/LUEG.		M
APCD2009-NOV-220638		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	02/12/2009	Greg Gjerde	COSD/LUEG .		
APCD2000-NOV-210275		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	10/16/2000				
APCD1999-NOV-209131		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/27/1999				
APCD1994-APP-930866		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	04/18/1994	CW	M		A

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2009-NOV-220430	05/13/2009	12/02/2009	Closed - Paid

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	1,500.00	1,500.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD V O Mailing			CARA BANDARA

Relationship: --Select--
Title:
Primary: No
Organization Name: BAE SYSTEMS SD SHP REPAIR INC
Business Phone: 6195718632
Street Address: PO BOX 13308
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
Fax:

City	State	Zip Code	Country
SAN DIEGO	CA	921703308	--Select--

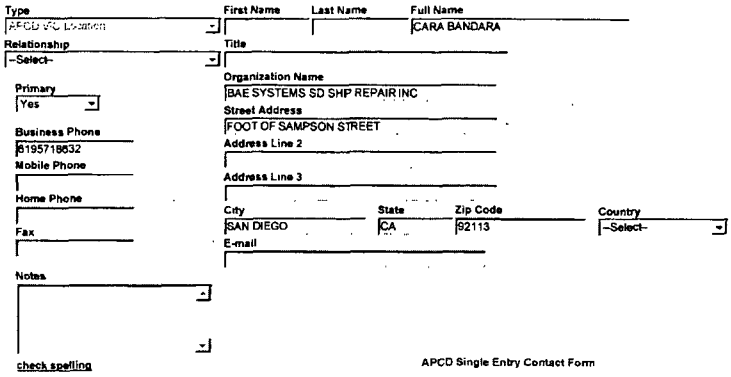
E-mail:

Notes

check spelling

APCD VIO Location *(This section is not required.)*

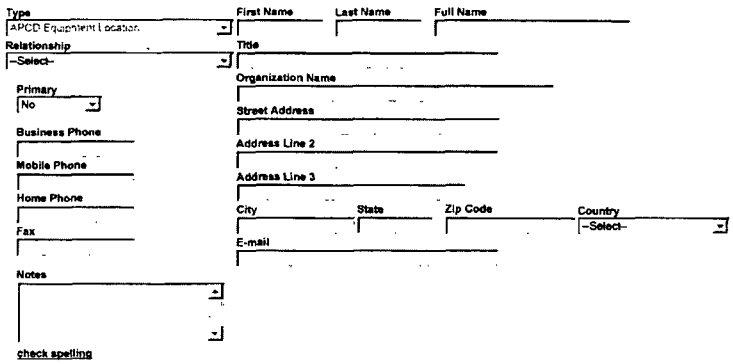
Search As Contact



APCD Single Entry Contact Form

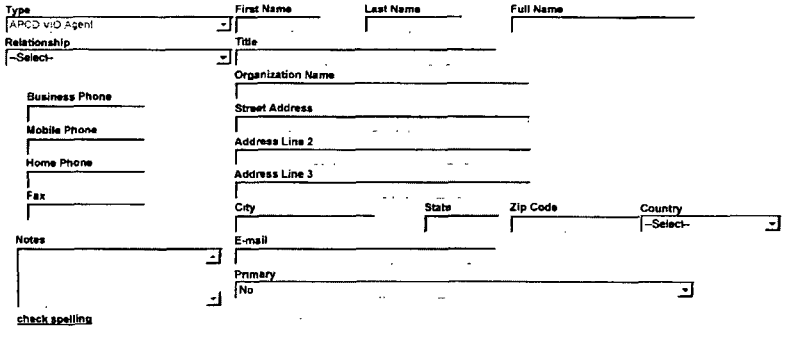
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
21	CND. #4-BY OPERATING OR ALLOWING OPERATION OF AN ABRASIVE BLASTI	Permit Conditions	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 220430

Asbestos Reference Number:

Complaint Reference Number:

Inspection Type (Method): --Select--

Date NOV Issued: 05/13/2009

Date Violation began: 05/13/2009

Date Violation Ends:

Statute of Limitations:

Inspector: JMP

Received by:

Title of recipient:

Certified Mailing Number:

Certified Mailing Date:

Return Receipt Received: Yes No

Return Receipt Received Date:

Title V: Yes No

Synthetic Minor: Yes No

Pollutant that makes TV/SM: --Select--

PSD: Yes No

Pollutant in violation: - Select

Violation Response Details

Compliance Achieved:

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date:

File to CAI: 06/05/2009

Senior Inspector Comments

check spelling

Settlement Details

HPV: Yes No

1st Offer letter Date: 10/28/2009

1st Offer Amount: 1500

Maximum Penalty: --Select--

1st offer comments

2nd Offer Letter Date:

2nd Offer Amount:

2nd offer comments

Referred to: --Select--

Hearing Board Number

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (Yes / No) | Judgment amount

Case Number | Case comments

Result: FI | Date of Payment: 11/30/2009 | Final Date: 11/30/2009 | Civil Actions Investigator: GAG | Negotiated Amount

Legacy Data

Disposition: MS | Disposition Comments

Method: TI

APCD NOV Form - Rev July 2012

Related Records

« ‹ 1 2 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2012-APP-002046	LKR to PO 930298	LUEG-APCD/Permit App/Abrasive Blasting/Blast Rooms	Approved	03/27/2012	SMARECHA	COSD/LUEG...		
APCD2010-NOV-000333	221365	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	04/16/2010	Greg Gjerde	COSD/LUEG ..		
APCD2009-NOV-000225	221122	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	11/13/2009	Greg Gjerde	COSD/LUEG...	Greg Gjerde	
APCD2009-NOV-000224	220447	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	11/13/2009	Greg Gjerde	COSD/LUEG ..	Greg Gjerde	
APCD2008-PTO-930298		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				A
APCD2009-NOV-220430		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	05/13/2009	Greg Gjerde	COSD/LUEG...	Greg Gjerde	
APCD2009-HBD-04290		LUEG-APCD/Variance App/Variance/NA	Closed	05/07/2009			Heidi Pack	
APCD2009-APP-987935		LUEG-APCD/Permit App/Abrasive Blasting/Blast Rooms	Approved	03/26/2009	Camqui Nguyen	COSD/LUEG .		M
APCD2009-NOV-220638		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	02/12/2009	Greg Gjerde	COSD/LUEG. .		
APCD2000-NOV-210275		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	10/16/2000				

« ‹ 1 2 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2009-NOV-000224	11/13/2009	12/02/2009	Closed - Paid

Type
LUEG-APCD/ComplianceNotice of Violation/NA

Short Notes
220447

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gerde	1,000.00	1,000.00	0.00

Expiration Status	Expiration Date	Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			CARA BANDARA

Relationship
--Select--

Title

Organization Name
BAE SYSTEMS SD SHP REPAIR INC

Primary
No

Street Address
PO BOX 13308

Business Phone
6195718632

Address Line 2

Mobile Phone

Address Line 3

Home Phone

City	State	Zip Code	Country
SAN DIEGO	CA	921703308	--Select--

Fax

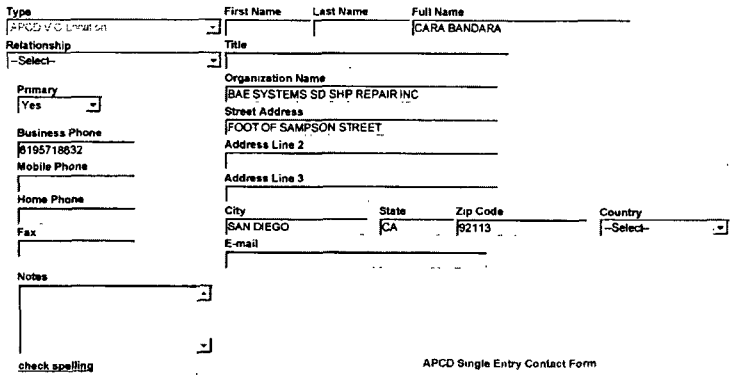
E-mail

Notes

check spelling

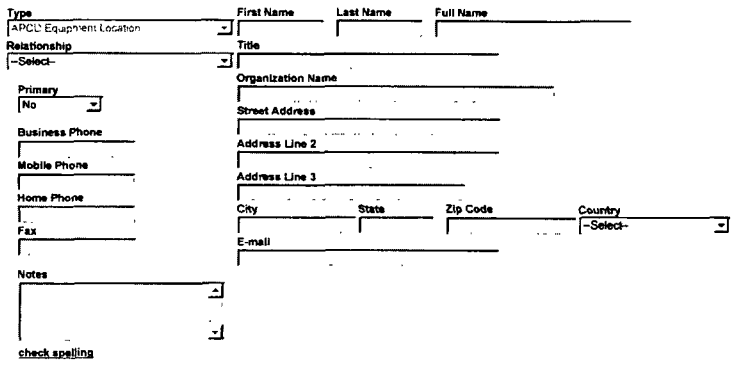
APCD VIO Location *(This section is not required.)*

Search As Contact



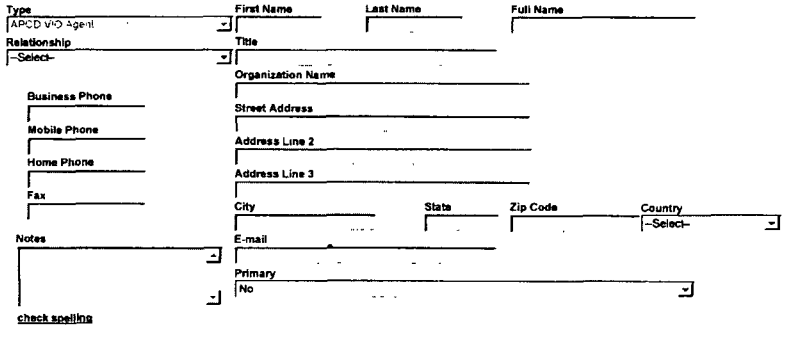
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
67.0(d)(1)(ii)	use of non-compliance architectural coatings		

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 220447

Asbestos Reference Number

Complaint Reference Number

Inspection Type [Method]: Annual

Date NOV Issued: 08/05/2009

Date Violation began: 08/05/2009

Date Violation Ends

Statute of Limitations

Inspector: JMP

Received by

Title of recipient

Certified Mailing Number

Certified Mailing Date

Return Receipt Received: ○ Yes ○ No

Return Receipt Received Date

Title V: ○ Yes ○ No

Synthetic Minor: ○ Yes ○ No

Pollutant that makes TV/SM: --Select--

PSD: ○ Yes ○ No

Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved

Response Acknowledgement Letter: --Select--

Acknowledgement Letter Date

File to CAI: 09/05/2009

Senior Inspector Comments

check spelling

Settlement Details

HPV: ○ Yes ○ No

1st Offer letter Date: 10/28/2009

1st Offer Amount: 2250

Maximum Penalty: --Select--

1st offer comments

2nd Offer Letter Date

2nd Offer Amount

2nd offer comments

Referred to: --Select--

Hearing Board Number

Date Case Referred	Date Complaint Filed	Trial Date	Judgment	Judgment amount
			Yes / No	

Case Number

Case comments

Result	Date of Payment	Final Date	Civil Actions Investigator	Negotiated Amount
FI	11/30/2009	11/30/2009	GAG	1000

Legacy Data

Disposition	Disposition Comments
MS	

Method: ANN

APCD NOV Form - Rev July 2012

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2009-NOV-000225	221122	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	11/13/2009	Greg Gjerde	COSD/LUEG..	Greg Gjerde	
APCD2009-NOV-000224	220447	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	11/13/2009	Greg Gjerde	COSD/LUEG	Greg Gjerde	
APCD2009-NOV-220430		LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	05/13/2009	Greg Gjerde	COSD/LUEG ..	Greg Gjerde	

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2009-NOV-000225	11/13/2009	12/02/2009	Closed - Paid

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes
221122

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
APCD Compliance CAIs	Greg Gjerde	250.00	250.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			CARA BANDARA

Relationship: -Select-
Title:
Organization Name: BAE SYSTEMS SD SHP REPAIR INC
Primary: No
Street Address: PO BOX 13308
Business Phone: 6195718632
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

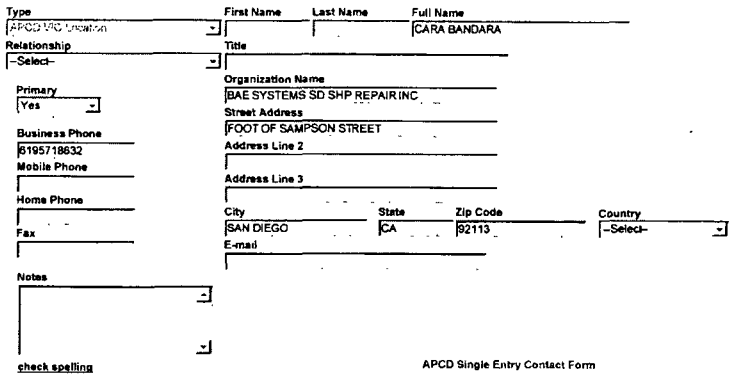
City	State	Zip Code	Country
SAN DIEGO	CA	921703308	-Select-

Fax:
E-mail:
Notes:

check spelling

APCD VIO Location *(This section is not required)*

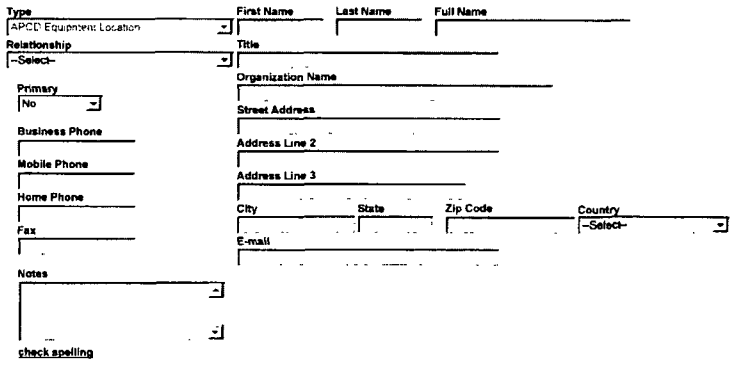
Search As Contact



APCD Single Entry Contact Form

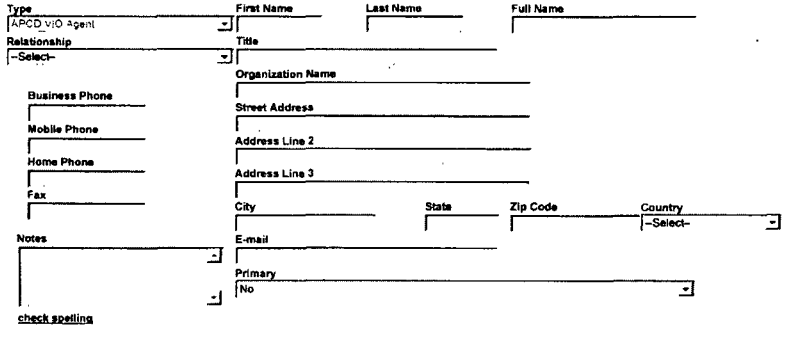
APCD Equipment Location *(This section is not required.)*

Search As Contact



APCD VIO Agent *(This section is not required.)*

Search As Contact



Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(Te
61 3.1	negative cracking pressure test failure		

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 220447
Asbestos Reference Number:
Complaint Reference Number:

Inspection Type [Method]: Annual
Date NOV Issued: 08/05/2009
Date Violation began: 08/05/2009
Date Violation Ends:
Statute of Limitations:

Inspector: JMP
Received by:
Title of recipient:

Certified Mailing Number:
Certified Mailing Date:
Return Receipt Received: ○ Yes ○ No
Return Receipt Received Date:

Title V: ○ Yes ○ No

Synthetic Minor: ○ Yes ○ No
Pollutant that makes TV/SM: --Select--

PSD: ○ Yes ○ No
Pollutant in violation: --Select--

Violation Response Details

Compliance Achieved:
Response Acknowledgement Letter: --Select--
Acknowledgement Letter Date:
File to CAI: 09/05/2009

Senior Inspector Comments:

check spelling

Settlement Details

HPV: ○ Yes ○ No

1st Offer letter Date: 10/28/2009
1st Offer Amount: 250
Maximum Penalty: --Select--

1st offer comments:

2nd Offer Letter Date:
2nd Offer Amount:

2nd offer comments

Referred to: --Select--

Hearing Board Number

Date Case Referred

Date Complaint Filed

Trial Date

Judgment: Yes / No

Judgment amount

Case Number

Case comments

Result	Date of Payment	Final Date	Civil Actions Investigator	Negotiated Amount
FI	11/30/2009	11/30/2009	GAG	1000

Legacy Data

Disposition: MS

Disposition Comments

Method: ANN

APCD NOV Form - Rev July 2012

Related Records

« ‹ 1 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2009-NOV-000225	221122	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	11/13/2009	Greg Gjerde	COSD/LUEG...	Greg Gjerde	
APCD2009-NOV-000224	220447	LUEG-APCD/Compliance/Notice of Violation/NA	Closed - Paid	11/13/2009	Greg Gjerde	COSD/LUEG .	Greg Gjerde	

« ‹ 1 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2003-PTO-930292	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
JOHN DEERE DIESEL ENGINE, MODEL 4039T FOO1, S/N T04039T323435, 109 BHP,DRIVING AN ABRASIVE BLAST VACUUM (930292-EAD-8/97)

check spelling

Entered by Division (Current Division)	Entered/Updated by: * (Current User)	Entered Date
--Select--	--Select--	

Division (Current Division)	Assigned to: (Current User)	Invoiced	Paid	Balance
--Select--	--Select--	349.00	349.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2001	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship: --Select--
Title:
Organization Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR INC
Primary: Yes
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	--Select--

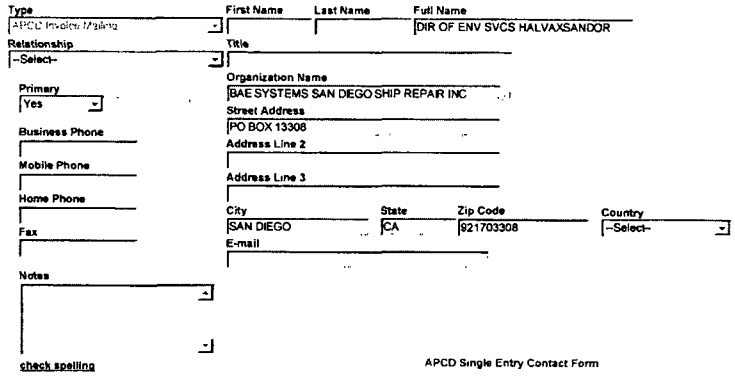
Fax: 6195950459
E-mail:

Notes

check spelling

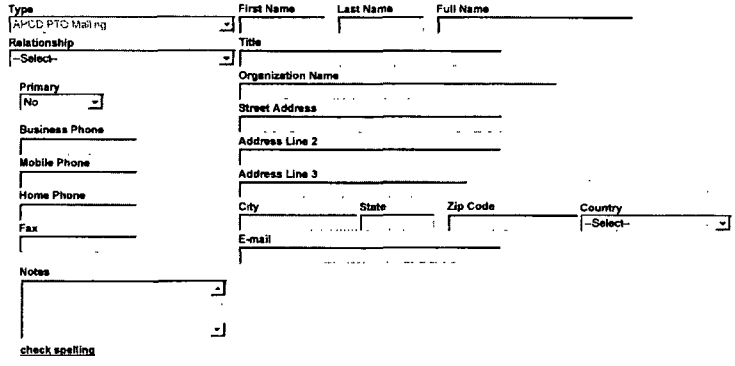
APCD Invoice Mailing *(This section is not required)*

Search As Contact

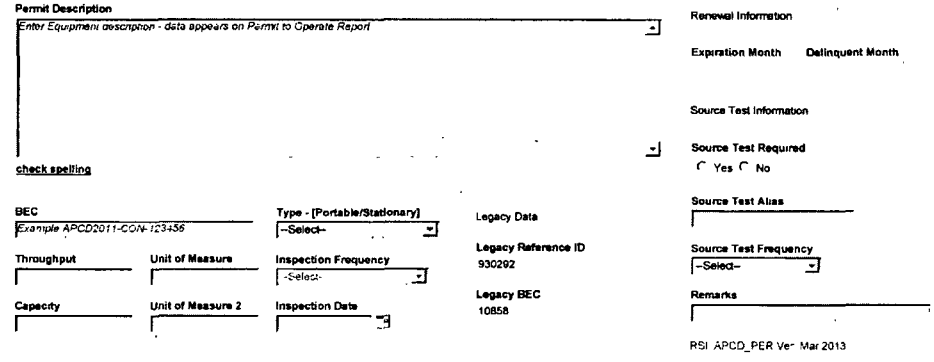


APCD PTO Mailing *(This section is not required)*

Search As Contact



- Permit to Operate



EQUIPMENT TYPES Add Delete CSV Export

Number of Units(Number) Equipment Type Assess on Renewal

VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date: Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel #* Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction -Select- Street Name Street Type -Select-

City State Zip Code Address Status -Select- Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation* -Select-

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2003-PTO-930292		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				JK
APCD1998-NTC-15023		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	12/22/1998				
APCD1993-APP-930292		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	10/07/1993	Camqui Nguyen	COSD/LUEG..		D

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1998-NTC-15023	12/22/1998		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			TINA BEST

Relationship: --Select--

Title

Primary: Yes

Organization Name: SOUTHWEST MARINE INC

Street Address: PO BOX 13308

Business Phone: 6192381000

Address Line 2

Mobile Phone

Address Line 3

Home Phone

City	State	Zip Code	Country
SAN DIEGO	CA	92170	--Select--

Fax

E-mail

Notes

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: TINA BEST
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE INC
Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select-
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select-
E-mail
Notes
check spelling

- Notice to Comply

NTC Issue Date: 12/22/1998 | NTC Start Date | NTC End Date: 09/27/1999 | Compliance Due Date: 10/11/1999
Inspector: JZ | Served To: TINA BEST | Title: SR ENV COORD
Certified Mailing Number | Certified Mailing Date | Return Receipt Received: Yes No | Return Receipt Received Date
Compliance (Achieved or Received) Date | NR Letter
Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID | Sector ID: 07 | Reference NOV number | Complaint Number
Facility ID: 344 A | Permit Reference ID | Equipment Type Reference: 38A | Legacy Reference ID: 15023
Final Disposition: --Select-- | Date NTC Letter Sent | Civil Actions Investigator
Description of Violation(s) and Corrective Action Required

(CERTIFIED COMPLIANCE)MAINTAIN A LOG BOOK SHOWING DATES THAT THE EQUIPENT IS INSPECTED,CLEANED OR REPAIRED ALSO PRESSURE GAUGE READINGS ON EACH DAY OFEQUIPMENT USE MAINTAIUN A LOG SHOWING STARTUP DATE AND ENGINEHOURS RUN FOR THE JOHN DEERE ENGINE

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
10.4	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

< 1 >

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2005-PTO-900223		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				FI
APCD2003-PTO-930292		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				JC
APCD2000-APP-974635		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	02/18/2000	AFS	M		M
APCD1999-NOV-209131		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	09/27/1999				
APCD1998-NTC-15023		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	12/22/1998				

< 1 >

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1994-NTC-02301	09/28/1994		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

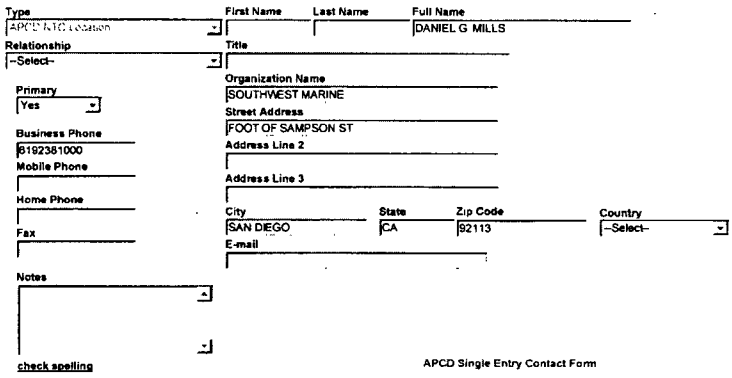
APCD NTC Mailing *(This section is not required)*

Search As Contact

Type * APCD NTC Mailing
Relationship -Select-
Primary Yes
Business Phone 6192381000
Mobile Phone
Home Phone
Fax
First Name
Last Name
Full Name DANIEL G. MILLS
Title
Organization Name SOUTHWEST MARINE
Street Address PO BOX 13308
Address Line 2
Address Line 3
City SAN DIEGO
State CA
Zip Code 92113
Country -Select-
E-mail
Notes
check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

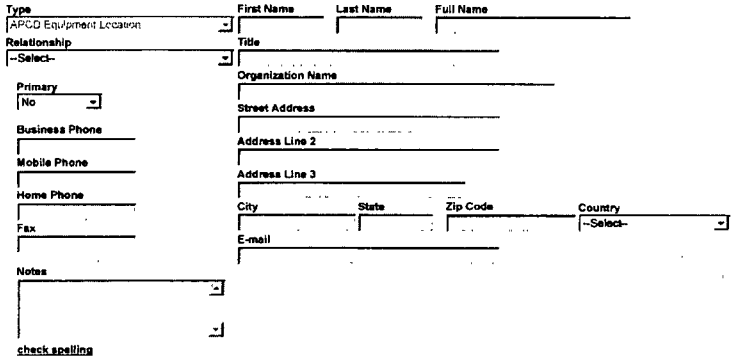


Type: APCD NTC Location | First Name | Last Name | Full Name: DANIEL G MILLS
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE
Business Phone: 8192381000 | Street Address: FOOT OF SAMPSON ST
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select-
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact



Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select-
E-mail
Notes
check spelling

- Notice to Comply

NTC Issue Date: 09/28/1994 | NTC Start Date | NTC End Date | Compliance Due Date: 10/12/1994

Inspector: LLS | Served To: DANILE G. MILLS | Title: ENV. COORD.

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: ○ Yes ○ No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select-

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A	30718		2301

Final Disposition: --Select- | Date NTC Letter Sent | Civil Actions Investigator

Description of Violation(s) and Corrective Action Required

DEMOTE ON THE SITE CUMMULATIVE RECORDS WHICH EMISSIONS WEREGENERATED FROM THE OPERATIONS DESCRIBED BY P.O #30718. [CLOSED10/24/94 - KEEPING RECORDS, RESPONSE ATTACHED]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
	21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

1 2 3 4 5 6 7 8 9 10

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG..		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG ..		
APCD2010-CER-000228	New app for existin...	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG .		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG .		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041062		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

1 2 3 4 5 6 7 8 9 10

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1994-NTC-01238	10/28/1994		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
--Select--		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
--Select--		--Select--		0.00	0.00	0.00

Expiration Status **Expiration Date** **Record Name**

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			DANIEL G. MILLS

Relationship --Select--

Title

Primary Yes

Organization Name SOUTHWEST MARINE

Street Address PO BOX 13308

Business Phone 8192381000

Address Line 2

Mobile Phone

Address Line 3

Home Phone

City	State	Zip Code	Country
SAN DIEGO	CA	92113	--Select--

Fax

E-mail

Notes

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: DANIEL G MILLS

Relationship: --Select-- | Title

Primary: Yes | Organization Name: SOUTHWEST MARINE

Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select-

E-mail

Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name

Relationship: --Select-- | Title

Primary: No | Organization Name

Business Phone | Street Address

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City | State | Zip Code | Country: --Select-

E-mail

Notes

check spelling

- Notice to Comply

NTC Issue Date: 10/28/1994 | NTC Start Date | NTC End Date | Compliance Due Date: 10/12/1994

Inspector: LS | Served To: DANIEL G MILLS | Title: ENVIRONMENTAL COORDINATOR

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		

Facility ID	Permit Reference ID	Equipment Type Reference	Legacy Reference ID
344 A	30067		1239

Final Disposition: --Select-- | Date NTC Letter Sent | Civil Actions Investigator

Description of Violation(s) and Corrective Action Required

KEEP RECORDS SHOWING THE FUEL RATE [CLOSED 10/24/94 - KEEPINGRECORDS, RESPONSE ATTACHE]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG .		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG..		
APCD2010-CER-000226	New app for existin ..	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG..		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG. .		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1994-NTC-01237	10/28/1994		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
--Select--		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
--Select--		--Select--		0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			DANIEL G MILLS

Relationship: --Select--
Title:
Organization Name: SOUTHWEST MARINE
Primary: Yes
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

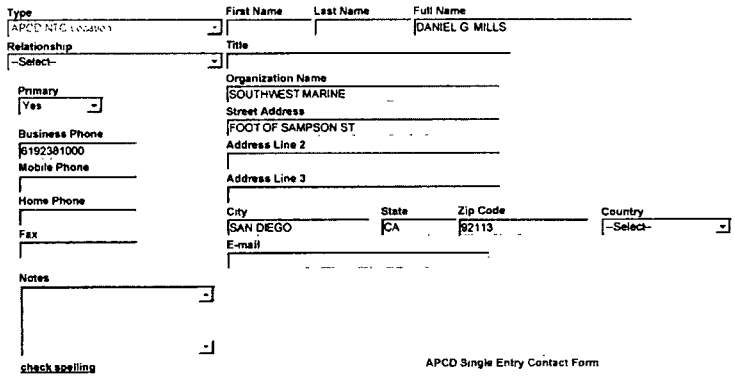
City	State	Zip Code	Country
SAN DIEGO	CA	92113	--Select--

Fax:
E-mail:
Notes:

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

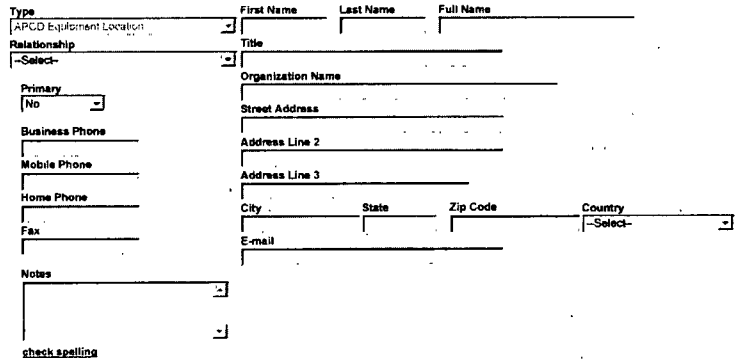


Type: APCD NTC Location
First Name: Last Name: Full Name: DANIEL G MILLS
Relationship: --Select--
Title:
Organization Name: SOUTHWEST MARINE
Primary: Yes
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO State: CA Zip Code: 92113 Country: --Select--
Fax:
E-mail:
Notes:
check spelling

APCD Single Entry Contact Form

APCD Equipment Location (This section is not required.)

Search As Contact



Type: APCD Equipment Location
First Name: Last Name: Full Name:
Relationship: --Select--
Title:
Organization Name:
Primary: No
Street Address:
Business Phone:
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: State: Zip Code: Country: --Select--
Fax:
E-mail:
Notes:
check spelling

- Notice to Comply

NTC Issue Date: 10/26/1994
NTC Start Date:
NTC End Date:
Compliance Due Date: 10/12/1994

Inspector: LLS
Served To: DANIEL G. MILLS
Title: ENVIRONMENTAL COORDINATOR

Certified Mailing Number:
Certified Mailing Date:
Return Receipt Received: C Yes C No
Return Receipt Received Date:

Compliance (Achieved or Received) Date:
NR Letter:

Follow Up Inspection Request Date:
Inspection Due Date:
Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A	6646		1237

Final Disposition: --Select--
Date NTC Letter Sent:
Civil Actions Investigator:

Description of Violation(s) and Corrective Action Required

INCLUDE THE AMOUNT OF SOLVENTS USED FOR APPLICATION EQUIPMENTCLEANUP IN DAILY AND YEARLY ROLLING TOTALS; INCLUDE THE AMOUNT OFCOATINGS AND SOLVENTS USED BY SUBCONTRACTORS IN DAILY AND YEARLYRECORDS; AND SUBMIT TO THE DISTRICT A MONTHLY SUMMARY OF DAILY USAGERECORDS ON A MONTHLY BASIS [CLOSED 10/24/94 - KEEPING RECORDS,RESPONSE ATTACHED]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
	67.18(d)(5)(iii)	
	21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

1 2 3 4 5 6 7 8 9 10

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG..		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG...		
APCD2010-CER-000226	New app for existin..	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG...		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG.		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030052		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

1 2 3 4 5 6 7 8 9 10

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD1994-NTC-01238	09/28/1994		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required.)*

Search As Contact

Type * APCD NTC Mailing
Relationship -Select-
Primary Yes
Business Phone 6192381000
Mobile Phone
Home Phone
Fax
First Name Last Name Full Name DANIEL G. MILLS
Title
Organization Name SOUTHWEST MARINE
Street Address PO BOX 13308
Address Line 2
Address Line 3
City SAN DIEGO State CA Zip Code 92113 Country -Select-
E-mail

Notes

check spelling

APCD NTC Location *(This section is not required.)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: DANIEL G. MILLS
Relationship: -Select- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE
Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: -Select-
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: -Select- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: -Select-
E-mail
Notes
check spelling

- Notice to Comply

NTC Issue Date: 09/28/1994 | NTC Start Date | NTC End Date | Compliance Due Date: 10/12/1994
Inspector: LLS | Served To: DANIEL G MILLS | Title: ENVIRONMENTAL COORDINATOR
Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date
Compliance (Achieved or Received) Date | NR Letter
Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: -Select-

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A	30064		1238
Final Disposition	**Date NTC Letter Sent**	**Civil Actions Investigator**	
-Select-			

Description of Violation(s) and Corrective Action Required

KEEP RECORDS SHOWING THE FUEL RATE [CLOSED 10/24/94 - KEEPINGRECORDS; RESPONSE ATTACHED]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

1 2 3 4 5 6 7 8 9 10

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
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APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG		
APCD2010-CER-000226	New app for existin..	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG		
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APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1965-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

1 2 3 4 5 6 7 8 9 10

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2008-APP-986147

PERMIT ID
APCD2008-PTO-950309

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

REMOTE RESERVOIR SOLVENT CLEANER: MANUFACTURER: SAFETY KLEEN MODEL NO.: 250 DEGREASING SOLVENT: SEE ATTACHMENT AA MAY ALSO BE LABELED AS SYSTEM ONE MODEL 500 (986147/JNH/1008) 950309/RKM/972454/EZI/NOAPP/977401/LKM/985086/EZI

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [28F] Remote Reservoir Cleaners

BEC: APCD2010-CON-000134

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. The remote reservoir cleaner (degreaser) described above shall comply with all requirements of Rule 67.6.1. (Rule 67.6.1)
2. The permittee shall only use solvents listed in Attachment AA for the equipment described above. (Rule 67.6.1)
3. The remote reservoir cleaner (degreaser) described above shall be equipped with a cover that completely covers the sink or work area of the degreaser and a cover that completely covers the solvent container. These covers shall not be removed except when work or maintenance is being performed in the degreaser. (Rule 67.6.1)
4. The sink or work area of the degreaser shall have a freeboard height of at least 6 inches (15cm). Freeboard height is the distance from the bottom of the sink or work area to the top of the sink or work area. (Rule 67.6.1)
5. The sink or work area of the degreaser shall be sloped towards the drain such that no pooling of solvent occurs in the sink or work area. (Rule 67.6.1)
6. The degreaser shall not be used for soaking parts. The solvent return opening of the sink or work area of the degreaser shall not be plugged or blocked. (Rule 67.6.1)
7. A permanent, conspicuous, and legible label listing the applicable operating requirements for the degreaser shall be posted on or near the degreaser. (Rule 67.6.1)
8. There shall be no liquid leaks from any portion of the degreaser. If a liquid leak is detected, the leak shall be repaired immediately or the degreaser shall be shut down and drained of solvent in a manner that minimizes emissions. (Rule 67.6.1)

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2008-APP-986147

PERMIT ID
APCD2008-PTO-950309

9. The permittee shall not clean any porous or absorbent materials, such as cloth, leather, wood, or rope in the degreaser. (Rule 67.6.1)
10. Solvent spraying, when necessary, shall only be done using a continuous liquid stream at a low enough pressure that does not cause liquid solvent to splash outside of the sink or work area. Fine, atomized, or shower type spray shall not be used. (Rule 67.6.1)
11. Solvent agitation when necessary shall only be done using pump circulation, a mechanical mixer, or ultrasonic agitation. Air or gas bubble agitation shall not be used. (Rule 67.6.1)
12. The degreaser shall not be exposed to air currents or drafts greater than 131 feet (40 meters) per minute. (Rule 67.6.1)
13. The permittee shall minimize solvent carry-out from the degreaser by applying the following methods:
    a) allowing full solvent drainage by placing parts on a rack or by other means,
    b) tipping out any pools of solvent from cleaned parts before removal from the degreaser and,
    c) allowing parts to dry within the degreaser until visually dry or dripping ceases.
    (Rule 67.6.1)
14. Waste solvent and any contaminated residue shall be recycled or disposed of according to requirements based on the California Health and Safety Code Division 20, Chapter 6.3 (beginning at section 25100) concerning hazardous waste disposal. (Rule 67.6.1)
15. When using a mixture (i.e. more than one solvent, solvent and water, etc.), the permittee shall maintain records of the types, amounts, and dates of each material (i.e. water, solvent, etc.) added to and removed from each degreaser. These records shall be kept on site for three (3) years and made available to the District upon request. (Rule 67.6.1)
16. Current material safety data sheets (MSDS) or manufacturer specifications for each solvent used shall be maintained on site and made readily available to the District upon request. The MSDS and/or manufacturer's specifications shall, at minimum, contain the following information: manufacturer name and identification for each solvent, solvent composition (including each ingredient and its percentages), Volatile Organic Compound (VOC) content of solvent expressed in g/l (lb/gal) of material as used, density for each solvent and mix ratios.
17. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
18. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
19. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 28F / 28K REMOTE RESERVOIR UNITS
CONTRACT SERVICE REMOTE RESERVOIR UNITS

Company Name (d.b.a.): BAE Systems, foot of Sampson St, SD 92113

Company Representative: Cara Bandera Title: Env. Supervisor

Id #: 00204 Permit #: 950309 Date of Expiration: 9/14

Date of Inspection: 11/14/13

EQUIPMENT DESCRIPTION

1. Equipment same as described on permit to operate? YES ☒ Yes ☐ No
   If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No
   Description of changes:
2. Are permit conditions current and enforceable? YES ☒ Yes ☐ No
   (If no, complete permit condition change request and describe changes in the comments section)
3. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No
4. Ownership verified? YES ☒ Yes ☐ No

EQUIPMENT INSPECTION

5. Solvent Type Used: QSOL 300
6. Equipment observed in operation? NO ☐ Yes ☒ No *Rule 67.6(d)(1)(i)*
7. Is the degreaser equipped with a tank cover? YES ☒ Yes ☐ No *Rule 67.6(d)(1)(ii)*
8. Is the tank covered when not in use or processing work? YES ☒ Yes ☐ No *Rule 67.6(d)(5)(v)*
9. Is the cover easy to operate with one hand? YES ☒ Yes ☐ No *Rule 67.6(d)(2)(ii)*
10. Is the degreaser equipped with a facility for draining cleaned parts? YES ☒ Yes ☐ No *Rule 67.6(d)(1)(iii)*
11. Are the operating instructions posted? YES ☒ Yes ☐ No *Rule 67.6(d)(1)(iv)*
12. Is the degreaser leaking? NO ☐ Yes ☒ No *Rule 67.6(d)(5)(ii)*
    If yes, where:
13. Is the degreaser located in a drafty are? (e.g., located next to an entryway) NO ☐ Yes ☒ No *Rule 67.6(d)(6)(iv)*
14. Is the degreaser used to clean absorbent or porous material? NO ☐ Yes ☒ No *Rule 67.6(d)(5)(viii)*
    Type of Solvent Flow System Used? Steady flow
15. What is the solvent disposal method? Pick up as haz waste
16. For Contract Units: Name of Contract Service Provider / ID#:

17. Is the facility maintaining records of the amount of solvent added and removed from the degreaser? N/A ☐ Yes ☐ No *Rule 67.6(d)(5)(ix)*

COMPLIANCE ACTIONS

18. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____
Rules: _____
List NTC items below:

19. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____
Rules: _____
List NOV items below:

Additional Comments: Located NE of rail tracks in metal shop. Equipment tagged out and not used since 2011.

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 11/22/13

AQIII Initials: [signature] Date: 11/9/2013

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1997-NOV-205461	05/23/1997		Closed

Type
LUEG-APCD/Compliance/Notice of Violation/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	75.00	75.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD VIO Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD VIO Mailing			LENA BEST

Relationship: -Select-
Title:

Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO State: CA Zip Code: 92170 Country: -Select-
Fax:
E-mail:

Notes

check spelling

APCD VIO Location *(This section is not required)*

Search As Contact

Type	First Name	Last Name	Full Name
APCD VIO Location			LENA BEST

Relationship: -Select-
Title:

Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO State: CA Zip Code: 92113 Country: -Select-
Fax:
E-mail:

Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name

Relationship: -Select- | Title

Organization Name

Primary: No | Street Address

Business Phone | Address Line 2

Mobile Phone | Address Line 3

Home Phone | City | State | Zip Code | Country: -Select-

Fax | E-mail

Notes

check spelling

APCD VIO Agent *(This section is not required.)*

Search As Contact

Type: APCD VIO Agent | First Name | Last Name | Full Name

Relationship: -Select- | Title

Organization Name

Business Phone | Street Address

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City | State | Zip Code | Country: -Select-

Notes | E-mail

Primary: No

check spelling

Record Specific Info Tables

VIOLATION COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Section(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Record ID(Text)	Equipment Type	Permit Condition Number

EQUIPMENT TYPE Add Delete CSV Export

VR Test(Text)	Number of Grade Points Tested(Number)	Number of Grade Points Passed(Number)

VIOLATION RULE Add Delete CSV Export

Rule(Text)	Violation Description(Text)	Rule Description(Text)	Condition Number(T
67.6(d)(5)(v)	LEAVING THE LID OF THE DEGREASER OPEN WHILE NOT PROCESSING WOR	Solvent Cleaning Operations - Keep Cover Closed	

- Notice of Violation

Notice Of Violation Details

Legacy Reference ID: 205461 | Asbestos Reference Number | Complaint Reference Number

Inspection Type [Method]: -Select- | Date NOV Issued: 05/23/1997 | Date Violation began: 05/20/1997 | Date Violation Ends | Statute of Limitations

Inspector: JDL | Received by | Title of recipient

Certified Mailing Number | Certified Mailing Date | Return Receipt Received (C Yes C No) | Return Receipt Received Date

Title V
C Yes C No

Synthetic Minor
C Yes C No

Pollutant that makes TV/SM
--Select--

PSD
C Yes C No

Pollutant in violation
--Select--

Violation Response Details

Compliance Achieved | Response Acknowledgement Letter (--Select--) | Acknowledgement Letter Date | File to CAI

Senior Inspector Comments

check spelling

Settlement Details

HPV
C Yes C No

1st Offer letter Date: 08/11/1997
1st Offer Amount: 75.00
Maximum Penalty: --Select--

1st offer comments
MS1-S

2nd Offer Letter Date
2nd Offer Amount

2nd offer comments

Referred to: --Select--
Hearing Board Number

Date Case Referred | Date Complaint Filed | Trial Date | Judgment (C Yes C No) | Judgment amount

Case Number | Case comments

Result: FI
Date of Payment: 07/31/2009
Final Date: 08/21/1997
Civil Actions Investigator: GAG
Negotiated Amount

Legacy Data

Disposition: MS
Disposition Comments: CMB W/460 & 462 $475

Method: AI

APCD NOV Form - Rev July 2012

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2008-PTO-950309		LUEG-APCD/Administrative/Permit To Operate/NA	Active	07/31/2009				R
APCD2008-APP-986148		LUEG-APCD/Permit App/Degreasers/Cold Solvent LSA < 5 sq ft	Approved	02/12/2008	Joe Herzig	COSD/LUEG. .		C
APCD2008-APP-986147		LUEG-APCD/Permit App/Degreasers/Cold Solvent LSA < 5 sq ft	Approved	02/11/2008	Joe Herzig	COSD/LUEG		C
APCD2007-APP-985086		LUEG-APCD/Permit App/Degreasers/Cold Solvent LSA < 5 sq ft	Approved	02/13/2007	EZI	C		M
APCD1998-APP-972454		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	11/17/1998	EZI	C		R
APCD1997-NOV-205461		LUEG-APCD/Compliance/Notice of Violation/NA	Closed	05/23/1997				

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1995-NTC-10057	09/21/1995		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			ARMANDO DEQUESADA

Relationship: -Select-
Title:
Organization Name: SOUTHWEST MARINE INC
Primary: Yes
Street Address: PO BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92170	-Select-

Fax:
E-mail:
Notes:

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: ARMANDO DEQUESADA
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000 | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select-
Fax | E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Street Address
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City | State | Zip Code | Country: --Select-
Fax | E-mail
Notes
check spelling

Notice to Comply

NTC Issue Date: 09/21/1995 | NTC Start Date | NTC End Date | Compliance Due Date: 10/05/1995

Inspector: LLS | Served To: ARMANDO DEQUESADA | Title: ENVIRONMENTAL MANAGER

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A	950308		10057

Final Disposition: --Select-- | Date NTC Letter Sent | Civil Actions Investigator

Description of Violation(s) and Corrective Action Required

OBTAIN PERMITS FOR A 2 POWER SYSTEMS REMOTE RESERVOIR DEGREASERSUSING VOLTZ RED SOLVENT. [CLOSED 10/13/95 APPLICATION NOS 950308 &950309 SUBMITTED]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
	D 10(b)	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG...		
APCD2010-CER-000226	New app for exustin..	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG...		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2008-PTO-950308	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
REMOTE RESERVOIR SOLVENT CLEANER MANUFACTURER. OWNER BUILT *GENERIC*MODEL NO N/ASERIAL NO * NONEDEGREASING SOLVENT. VOLTZ RED950308/RKM/972455/EZI/NOAPP

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	618.00	618.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2008	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship: --Select--
Title:
Organization Name: BAE SYSTEMS SAN DEGO SHIP REPAIR INC
Primary: Yes
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	--Select--

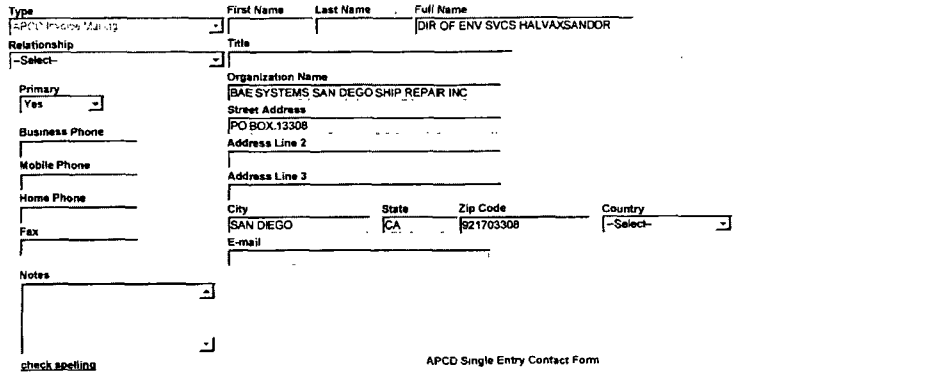
Fax: 6195950459
E-mail:

Notes

check spelling

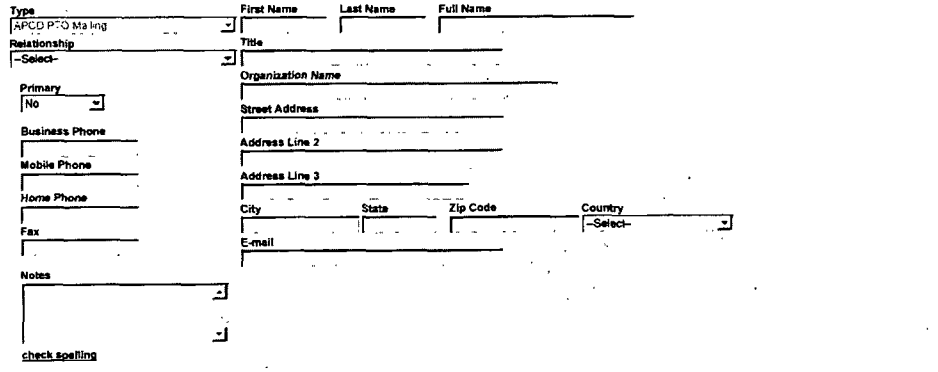
APCD Invoice Mailing *(This section is not required.)*

Search As Contact

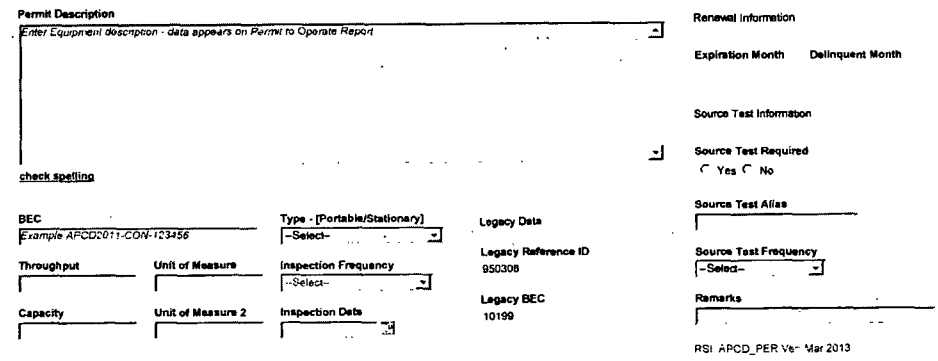


APCD PTO Mailing *(This section is not required.)*

Search As Contact



- Permit to Operate





VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot *Supervisor Dist*

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction --Select-- Street Name Street Type --Select--

City State Zip Code Address Status --Select-- Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

--Select--

Related Records

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2006-PTO-950308		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				R
APCD1998-APP-972455		LUEG-APCD/Administrative/Legacy Data/Uncategorized	Approved	11/17/1998	EZI	C		R
APCD1995-APP-950308		LUEG-APCD/Permit App/Degreasers/Cold Solvent LSA < 5 sq ft	Approved	10/13/1995	RKM	C		S

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID: APCD1996-NTC-10075
Opened Date: 08/26/1996
Closed Date:
Status: Closed

Type: LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes:

Detailed Description:

check spelling

Entered by Division: Current Division –Select–
Entered/Updated by: * Current User –Select–
Entered Date:

Division: Current Division –Select–
Assigned to: Current User –Select–
Invoiced: 0.00
Paid: 0.00
Balance: 0.00

Expiration Status:
Expiration Date:
Record Name:
Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

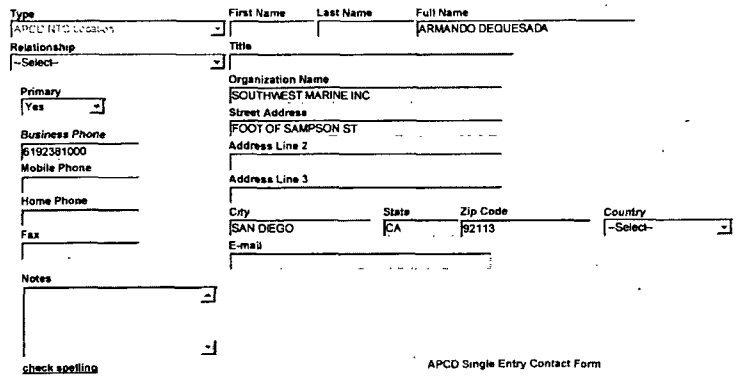
Type *: APCD NTC Mailing
First Name:
Last Name:
Full Name: ARMANDO DEQUESADA
Relationship: –Select–
Title:
Organization Name: SOUTHWEST MARINE INC
Primary: Yes
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
City: SAN DIEGO
State: CA
Zip Code: 92113
Country: –Select–
Fax:
E-mail:

Notes:

check spelling

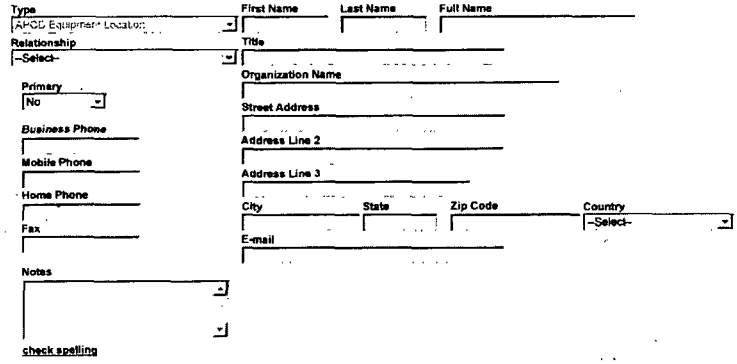
APCD NTC Location *(This section is not required)*

Search As Contact

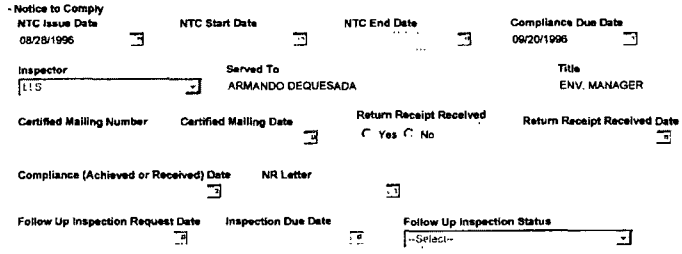

Type: APCD NTC Location | First Name | Last Name | Full Name: ARMANDO DEQUESADA
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE INC
Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select-
E-mail
Notes
check spelling
APCD Single Entry Contact Form

APCD Equipment Location (This section is not required.)

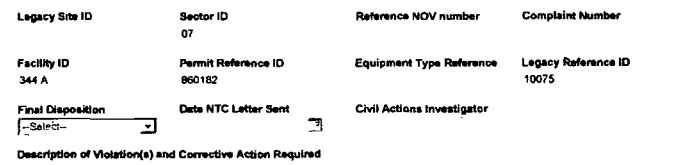
Search As Contact


Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select-
E-mail
Notes
check spelling

Notice to Comply


NTC Issue Date: 08/28/1996 | NTC Start Date | NTC End Date | Compliance Due Date: 09/20/1996
Inspector: LIS | Served To: ARMANDO DEQUESADA | Title: ENV. MANAGER
Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date
Compliance (Achieved or Received) Date | NR Letter
Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information


Legacy Site ID | Sector ID: 07 | Reference NOV number | Complaint Number
Facility ID: 344 A | Permit Reference ID: 860182 | Equipment Type Reference | Legacy Reference ID: 10075
Final Disposition: --Select-- | Date NTC Letter Sent | Civil Actions Investigator

Description of Violation(s) and Corrective Action Required

MAINTAIN AN INSPECTION AND MAINTENANCE LOG BOOK FOR THE ASSOCIATEDAIR POLLUTION CONTROL EQUIPMENT MENTIONED ON PERMITS #850182 &890175 (BARGE) THIS NTC INCLUDES P/O #890175 [CLOSED KEEPINGRECORDS]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
8	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

« 1 2 3 4 5 6 7 8 9 10 » »|

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG...		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG		
APCD2010-CER-000226	New app for exstin	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« 1 2 3 4 5 6 7 8 9 10 » »|

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1998-NTC-10074	08/08/1998		Closed

Type
LUEG-APCD/ComplianceNotice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	0.00	0.00	0.00

Expiration Status **Expiration Date** **Record Name**

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			ARMANDO DEQUESADA

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	--Select--

Fax:
E-mail:
Notes:

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: ARMANDO DEQUESADA

Relationship: --Select-- | Title

Primary: Yes | Organization Name: SOUTHWEST MARINE INC

Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select-

E-mail

Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search | As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name

Relationship: --Select-- | Title

Primary: No | Organization Name

Business Phone | Street Address

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City | State | Zip Code | Country: --Select-

E-mail

Notes

check spelling

- Notice to Comply

NTC Issue Date: 08/08/1996 | NTC Start Date | NTC End Date | Compliance Due Date: 09/20/1996

Inspector: LLS | Served To: ARMANDO DEQUESADA | Title: ENV. MANAGER

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID	Sector ID: 07	Reference NOV number	Complaint Number
Facility ID: 344 A	Permit Reference ID: 30065	Equipment Type Reference	Legacy Reference ID: 10074
Final Disposition: --Select--	Date NTC Letter Sent	Civil Actions Investigator	

Description of Violation(s) and Corrective Action Required

MAINTAIN COMPLETE RECORDS OF SHORE CRANE USAGE TO DETERMINE THENUMBER OF DAYS USED PER 12 MONTH PERIOD. [CLOSED KEEPING RECORDS]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
3	D.21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG ..		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG...		
APCD2010-CER-000226	New app for existin .	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG.		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG...		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030057		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD1996-NTC-11526	08/28/1996		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
-Select-		-Select-		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
-Select-		-Select-		0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			ARMANDO DEQUESADA

Relationship: -Select-
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT F SAMPSON ST
Business Phone: 8192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
Fax:

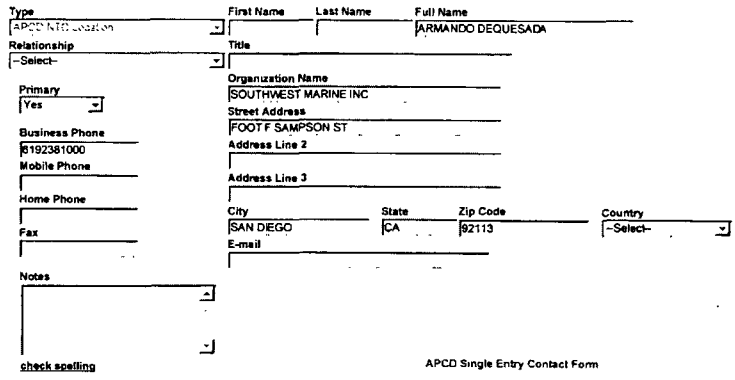
City	State	Zip Code	Country
SAN DIEGO	CA	92113	-Select-

E-mail:
Notes:

check spelling

APCD NTC Location *(This section is not required.)*

Search As Contact

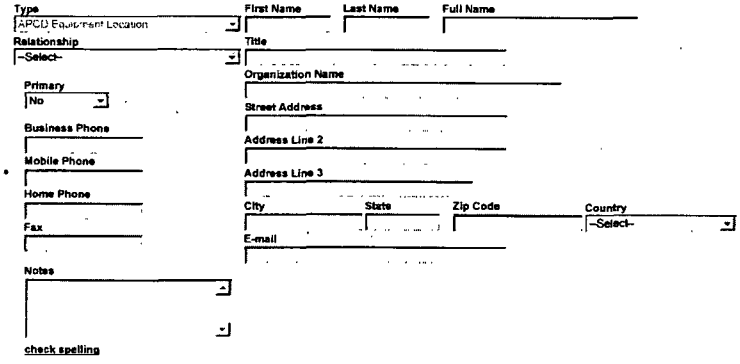


Type: APCD NTC Location | First Name | Last Name | Full Name: ARMANDO DEQUESADA
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE INC
Business Phone: 6192381000 | Street Address: FOOT F SAMPSON ST
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select-
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD Equipment Location (This section is not required.)

Search As Contact



Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select-
E-mail
Notes
check spelling

- Notice to Comply

NTC Issue Date: 08/28/1996 | NTC Start Date | NTC End Date | Compliance Due Date: 09/20/1996

Inspector: LLS | Served To: ARMANDO DEQUESADA | Title: ENV. MANAGER

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID	Sector ID	Reference NOV number	Complaint Number
	07		
Facility ID	**Permit Reference ID**	**Equipment Type Reference**	**Legacy Reference ID**
344 A	901074		11526
Final Disposition	**Date NTC Letter Sent**	**Civil Actions Investigator**	
--Select--			

Description of Violation(s) and Corrective Action Required

MAINTAIN AN INSPECTION AND MAINTENANCE LOG BOOK FOR THE ASSOCIATEDAIR POLLUTION CONTROL EUQIPMENT LISTED ON PERMITS #901074 & 930298(BARGE) THIS NTC INCLUDES P/O 930298 [CLOSED - KEEPING RECORDS]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
2.8	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

« < 1 2 3 4 5 6 7 8 9 10 > »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG		
APCD2013-CER-000449	New install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG		
APCD2010-CER-000226	New app for exstin.	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041062		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« < 1 2 3 4 5 6 7 8 9 10 > »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1996-NTC-10073	08/29/1996		Closed

Type
LUEG-APCD/ComplianceNotice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			ARMANDO DEQUESADA

Relationship: -Select-
Title:
Primary: Yes

Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT OF SAMPSON ST
Address Line 2:
Address Line 3:

Business Phone: 6192381000
Mobile Phone:
Home Phone:
Fax:

City	State	Zip Code	Country
SAN DIEGO	CA	92113	-Select-

E-mail:

Notes

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

Type: APCD NTC Location | First Name | Last Name | Full Name: ARMANDO DEQUESADA
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE INC
Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select-
E-mail
Notes

check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search | As Contact

Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select-
E-mail
Notes

check spelling

- Notice to Comply

NTC Issue Date: 08/29/1996 | NTC Start Date | NTC End Date | Compliance Due Date: 09/20/1996

Inspector: LLB | Served To: ARMANDO DEQUESADA | Title: ENV MANAGER

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: C Yes C No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID | Sector ID: 07 | Reference NOV number | Complaint Number

Facility ID: 344 A | Permit Reference ID: 6646 | Equipment Type Reference | Legacy Reference ID: 10073

Final Disposition: --Select-- | Date NTC Letter Sent | Civil Actions Investigator

Description of Violation(s) and Corrective Action Required

STORE ALL MATERIALS CONTAINING VOLATILE ORGANIC COMPOUNDS IN CLOSEDCONTAINERS WHEN NOT BEING ACCESSED, FILLED, EMPTIED, CLEANED,MAINTAINED OR REPAIRED. [CLOSED - WILL KEEP CONTAINERS CLOSED]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
	D 67.17(d)(2)	
5	D 21	
	D 67.17(d)(1)	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

1 2 3 4 5 6 7 8 9 10

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG..		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG...		
APCD2010-CER-000226	New app for existin...	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG...		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG...		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

1 2 3 4 5 6 7 8 9 10

Submit Cancel

Save Reset Cancel Help

Record Detail * (This section is required)

Record ID	Opened Date	Closed Date	Status
APCD2005-PTO-960427	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
REMOTE RESERVOIR CLEANER: "GENERIC"MODEL UNKNOWN;S/N 94-08-PS-8783;SOLVENT,V P.< 33 MM HG @ 100 DEG F & NOT A TOXIC AS PER RULE 1200; 960427/RKM

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	510.00	510.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2005	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * (This section is required)

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR INC
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	--Select--

Fax: 6195950459
E-mail:

Notes

check spelling

APCD Invoice Mailing (This section is not required)

Search As Contact

Type: APCD Invoice Mailing | First Name | Last Name | Full Name: DIR OF ENV SVCS HALVAXSANDOR
Relationship: --Select-- | Title
Primary: Yes | Organization Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR INC
Business Phone | Street Address: PO BOX 13308
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 921703308 | Country: --Select--
E-mail
Notes

check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required.)*

Search As Contact

Type: APCD PTO Mailing | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select--
E-mail
Notes

check spelling

- Permit to Operate

Permit Description: *Enter Equipment description - data appears on Permit to Operate Report*

check spelling

Renewal Information

Expiration Month | Delinquent Month

Source Test Information

Source Test Required: C Yes C No

BEC: *Example APCD2011-CON-123456* | Type - [Portable/Stationary]: --Select--

Throughput | Unit of Measure | Inspection Frequency: Select -

Capacity | Unit of Measure 2 | Inspection Date

Legacy Data

Legacy Reference ID: 960427

Legacy BEC: 10546

Source Test Alias

Source Test Frequency: --Select--

Remarks

RSI APCD_PER Ver Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units/Number* | Equipment Type* | Assess on Renewal*

VERSION HISTORY Add Delete CSV Export

Version Number(Number) Revision Date Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction --Select-- Street Name Street Type --Select--

City State Zip Code Address Status --Select-- Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation * --Select--

Related Records

« < 1 > »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2005-PTO-960427		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				R
APCD1996-APP-960427		LUEG-APCD/Permit App/Degreasers/Cold Solvent LSA < 5 sq ft	Approved	09/18/1996	RKM	C		S

« < 1 > »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2005-PTO-962005	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes
Col to SITE 1998-SITE-09580-owc app 000151-col app 001285-tno-000033

Detailed Description
CRANE ENGINE PERKINS, MODEL 1100 SERIES, 125.5 BHP, DIESEL FIRED,TURBOCHARGED, ENGINE FAMILY NO. 3KPXL04 4RJL. S/N RJ51155*U092009K*. 976541AFS05NOV2002 (ADD 34W CONDITIONS TO COMPLY WITH RULE 69.4 1)(980017 ALC 02/05)

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
APCD Permit Processing		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
--Select--		--Select--		1,326 00	1,326 00	0 00

Expiration Status	Expiration Date	Record Name
Inactive	09/30/2010	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location	Director	Env Svcs	

Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE Systems
Street Address: 2205 E Belt St Foot of Sampson St
Business Phone: 619-238-1000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
San Diego	CA	92113	United States

Fax:
E-mail:

Notes:

check spelling

APCD Invoice Mailing *(This section is not required)*

Search As Contact

Type: APCD Invoice Mailing | First Name: Director | Last Name: Env Svcs | Full Name:
Relationship: --Select-- | Title:
Primary: No | Organization Name: BAE Systems
Business Phone: 619-238-1000 | Street Address: PO BOX 13308
Mobile Phone: | Address Line 2:
Home Phone: | Address Line 3:
Fax: | City: San Diego | State: CA | Zip Code: 92170 | Country: United States
E-mail:
Notes:

check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required)*

Search As Contact

Type: APCD PTO Mailing | First Name: Director | Last Name: Env Svcs | Full Name:
Relationship: --Select-- | Title:
Primary: No | Organization Name: BAE Systems
Business Phone: 619-238-1000 | Street Address: PO Box 13308
Mobile Phone: | Address Line 2:
Home Phone: | Address Line 3:
Fax: | City: San Diego | State: CA | Zip Code: 92170 | Country: United States
E-mail:
Notes:

check spelling

- Permit to Operate

Permit Description: CRANE ENGINE: PERKINS, MODEL 1100 SERIES, 125.5 BHP, DIESEL FIRED,TURBOCHARGED, ENGINE FAMILY NO 3KPXL04.4RJL, S/N RJ51155*U092009K*. 976541AFS05NOV2002 (ADD 34W CONDITIONS TO COMPLY WITH RULE 69.4.1)(980017 ALC 02/05)

check spelling

Renewal Information
Expiration Month: 03/2011 | Delinquent Month:

Source Test Information
Source Test Required: ○ Yes ○ No

BEC: Example APCD2011-CON-123456 | Type - [Portable/Stationary]: --Select-- | Legacy Data
Throughput: | Unit of Measure: | Inspection Frequency: --Select-- | Legacy Reference ID: 962005
Capacity: 125 | Unit of Measure 2: hp | Inspection Date: | Legacy BEC: 12780

Source Test Alias:
Source Test Frequency: --Select--
Remarks:

RSI APCD_PER Ver Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units(Number)* Equipment Type* Assess on Renewal*

1 [34G] Engine for Non-Emergency and Non-Cogeneration Operation Yes No

VERSION HISTORY Add Delete CSV Export

Version Number(Number)*	Revision Date*	Application(Text)	Site(Text)	Reason	Notes(Text)
1	07/02/2010			Other	R 10

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text)	Test Type(Text)	Annual Retest(Text)	Pass or Fail(Text)	Notification Date	Scheduled Test Date	Actual Test Date	Transaction Date	TDR Results	Repair dat

Parcel *(This section is not required.)*

Search Delete Get Address & Owner Set Primary GIS

Primary	Parcel #	Book	Page	Parcel	Parcel Area	Land Value	Improved Value	Exemption Value	Legal Descrip

0 record(s) found.

Address *(This section is not required.)*

New Search Delete Get Parcel & Owner Set Primary GIS

Primary	Street # (start)	Direction	Street Name	Street Type	City	State	Zip Code	Address Status	Street Suffix (Direction)	Unit Type	Unit # (start)
G	NA										

Related Records

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2010-INA-000033	COL to 1996-Site-09 ..	LUEG-APCD/Administrative/Change/Inactivation	Void	08/10/2010				
APCD2005-PTO-962005	Col to SITE 1996-SI .	LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				C
APCD1997-CER-962005		LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/10/1997		M		S

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2006-APP-984159

PERMIT ID
APCD2008-PTO-961986

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

COLD SOLVENT CLEANER: MANUFACTURER: SAFETY-KLEEN MODEL: 34 INTERNAL SIZE: 33.5"L X 24.0"W X 17.0"H SOLVENT: SEE ATTACHMENT AA (986148/JNH/1008) 984159/EZI//RKM/961986/NOAPP

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [28I] Cold Solvent Degreaser

BEC: APCD2010-CON-000136

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. The cold solvent cleaner (degreaser) described above shall comply with all requirements of Rule 67.6.1. (Rule 67.6.1)
2. The permittee shall only use solvents listed in Attachment AA for the equipment described above. (Rule 67.6.1)
3. The degreaser described above shall be equipped with:
   A) a readily visible permanent mark or line indicating the maximum allowable solvent level to provide a freeboard ratio greater than or equal to 0.5. Freeboard ratio is the freeboard height divided by the smaller of the interior length or width of the degreaser tank. Freeboard height is the distance from the solvent-air interface to the top of the degreaser, based on inside tank dimensions.
   B) a cover that completely covers the solvent and is easily operable with one hand or mechanically assisted. This cover shall not be removed except when work or maintenance is being performed in the degreaser.
   C) a facility for draining parts such that the drained solvent returns to the container.
   D) a permanent, conspicuous, and legible label listing the applicable operating requirements shall be posted on or near the degreaser.
   (Rule 67.6.1)
4. The permittee shall not allow the actual solvent level to be above the marked maximum solvent level line at any time. (Rule 67.6.1)
5. There shall be no liquid leaks from any portion of the degreaser. If a liquid leak is detected, the leak shall be repaired immediately or the degreaser shall be shut down and drained of solvent in a manner that minimizes emissions. (Rule 67.6.1)

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2006-APP-984159

PERMIT ID
APCD2008-PTO-961986

6. The permittee shall not clean any porous or absorbent materials, such as cloth, leather, wood, or rope in the degreaser. (Rule 67.6.1)
7. Solvent spraying, when necessary, shall only be done using a continuous liquid stream at a low enough pressure that does not cause liquid solvent to splash outside of the sink or work area. Fine, atomized, or shower type spray shall not be used. (Rule 67.6.1)
8. Solvent agitation when necessary shall only be done using pump circulation, a mechanical mixer, or ultrasonic agitation. Air or gas bubble agitation shall not be used. (Rule 67.6.1)
9. The degreaser shall not be exposed to air currents or drafts greater than 131 feet (40 meters) per minute. (Rule 67.6.1)
10. The permittee shall minimize solvent carry-out from the degreaser by applying the following methods:
A) allowing full solvent drainage by placing parts on a rack or by other means,
B) tipping out any pools of solvent from cleaned parts before removal from the degreaser and,
C) allowing parts to dry within the degreaser until visually dry or dripping ceases.
(Rule 67.6.1)
11. Waste solvent and any contaminated residue shall be recycled or disposed of according to requirements based on the California Health and Safety Code Division 20, Chapter 6.3 (beginning at section 25100) concerning hazardous waste disposal. (Rule 67.6.1)
12. When using a mixture (i.e. more than one solvent, solvent and water, etc.), the permittee shall maintain records of the types, amounts, and dates of each material (i.e. water, solvent, etc.) added to and removed from each degreaser. These records shall be kept on site for three (3) years and made available to the District upon request. (Rule 67.6.1)
13. Current material safety data sheets (MSDS) or manufacturer specifications for each solvent used shall be maintained on site and made readily available to the District upon request. The MSDS and/or manufacturer's specifications shall, at minimum, contain the following information: manufacturer name and identification for each solvent, solvent composition (including each ingredient and its percentages), Volatile Organic Compound (VOC) content of solvent expressed in g/l (lb/gal) of material as used, density for each solvent and mix ratios.
14. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
15. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
16. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 28F / 28K REMOTE RESERVOIR UNITS
CONTRACT SERVICE REMOTE RESERVOIR UNITS

Company Name (d.b.a.): BAE Systems, foot of Sampson St, SD 92113

Company Representative: Cara Bandera Title: Env. Supervisor

Id #: 00204 Permit #: 961986 Date of Expiration: 9/14

Date of Inspection: 11/22/13

EQUIPMENT DESCRIPTION

1. Equipment same as described on permit to operate? YES ☒ Yes ☐ No
   If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No
   Description of changes:
2. Are permit conditions current and enforceable? YES ☒ Yes ☐ No
   (If no, complete permit condition change request and describe changes in the comments section)
3. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No
4. Ownership verified? YES ☒ Yes ☐ No

EQUIPMENT INSPECTION

5. Solvent Type Used: QSOL 300
6. Equipment observed in operation? NO ☐ Yes ☒ No *Rule 67.6(d)(1)(i)*
7. Is the degreaser equipped with a tank cover? YES ☒ Yes ☐ No *Rule 67.6(d)(1)(ii)*
8. Is the tank covered when not in use or processing work? YES ☒ Yes ☐ No *Rule 67.6(d)(5)(v)*
9. Is the cover easy to operate with one hand? YES ☒ Yes ☐ No *Rule 67.6(d)(2)(ii)*
10. Is the degreaser equipped with a facility for draining cleaned parts? YES ☒ Yes ☐ No *Rule 67.6(d)(1)(iii)*
11. Are the operating instructions posted? YES ☒ Yes ☐ No *Rule 67.6(d)(1)(iv)*
12. Is the degreaser leaking? NO ☐ Yes ☒ No *Rule 67.6(d)(5)(ii)*
    If yes, where:
13. Is the degreaser located in a drafty are? (e.g., located next to an entryway) NO ☐ Yes ☒ No *Rule 67.6(d)(6)(iv)*
14. Is the degreaser used to clean absorbent or porous material? NO ☐ Yes ☒ No *Rule 67.6(d)(5)(viii)*
    Type of Solvent Flow System Used? Steady flow
15. What is the solvent disposal method? Pick up as haz waste
16. For Contract Units: Name of Contract Service Provider / ID#:

17. Is the facility maintaining records of the amount of solvent added and removed from the degreaser? N/A ☐ Yes ☐ No *Rule 67.6(d)(5)(ix)*

COMPLIANCE ACTIONS

18. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NTC items below:

19. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NOV items below:

Additional Comments: Using QSol 0 g/l VOC. BAE Part#1134. Waste manifest maintained. Located on main yard near carpentry shop.

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 11/22/13

AQIII Initials: _____ Date: 11/22/13

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1997-NTC-12810	11/07/1997		Closed

Type
LUEG-APCD/Compliance/Notice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
--Select--	--Select--	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
--Select--	--Select--	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			LENA BEST

Relationship: --Select--
Title:
Primary: Yes
Organization Name: SOUTHWEST MARINE
Street Address: P O BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

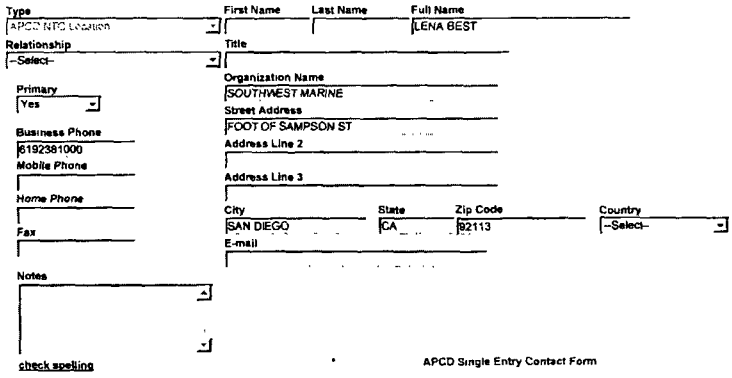
City	State	Zip Code	Country
SAN DIEGO	CA	92170	--Select--

Fax:
E-mail:
Notes:

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

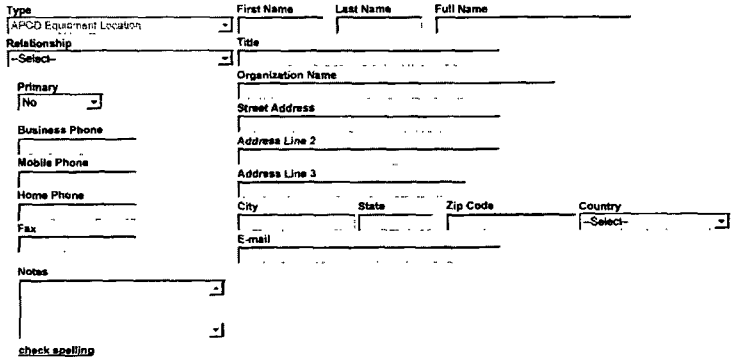


Type: APCD NTC Location | First Name | Last Name | Full Name: LENA BEST
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE
Business Phone: 6192381000 | Street Address: FOOT OF SAMPSON ST
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select--
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD Equipment Location *(This section is not required.)*

Search As Contact



Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select--
E-mail
Notes
check spelling

- Notice to Comply

NTC Issue Date: 11/07/1997 | NTC Start Date | NTC End Date | Compliance Due Date: 11/25/1997

Inspector: LLS | Served To: LENA BEST | Title: ENF COORD

Certified Mailing Number | Certified Mailing Date | Return Receipt Received: ○ Yes ○ No | Return Receipt Received Date

Compliance (Achieved or Received) Date | NR Letter

Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information

Legacy Site ID | Sector ID: 07 | Reference NOV number | Complaint Number

Facility ID: 344 A | Permit Reference ID: 890175 | Equipment Type Reference | Legacy Reference ID: 12810

Final Disposition: --Select-- | Date NTC Letter Sent | Civil Actions Investigator

Description of Violation(s) and Corrective Action Required

MAINTAIN SERIAL NUMBERS IN CONSPICUOUS LOCATION ON THE ABRASIVESTORAGE HOPPER (CERTIFIED COMPLIANCE)

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
10	D 21	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0589	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG ..		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG...		
APCD2010-CER-000226	New app for exstin ..	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG .		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG..		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2005-APP-982718

PERMIT ID
APCD2007-PTO-962075

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

ONE (1) 316 BHP MITSUBISHI FUSO DIESEL ENGINE, MODEL 6D24-TLA2F, S/N 6D24359428, DRIVING A CRANE ON THE POSD DRY DOCK.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34E] Dredging or Crane Engines
1 [92D] Annual Fee for Biennial NOx Source Test

BEC: 10857

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. The emissions of oxides of nitrogen (NOx) in parts per million (PPMV), calculated as nitrogen dioxide, shall not exceed 6.9 g/BHP-hr, or 535 PPMVat 15% oxygen on a dry basis.
2. The emissions of carbon monoxide (CO) calculated at 15% oxygen on a dry basis, shall not exceed 900 PPMV.
3. Measurement of NOx, CO, carbon dioxide (CO2) and oxygen content of exhaust gas shall be determined in accordance with the San Diego County Air Pollution Control District test method 100, air resources board (ARB) test method 100 or equivalent environmental protection agency (EPA) test method.
4. Equipment shall be available and used to determine average fuel consumption rates during source tests. Raw data required to determine average fuel consumption rates shall be submitted to the District upon request.
5. Emissions source testing shall be performed at no less than 80 percent of the brake horsepower rating. If an owner or operator of an engine demonstrates to the satisfaction of the Air Pollution Control Officer that the engine does not operate at these conditions, then emissions source testing shall be performed at the highest achievable continuous brake horsepower rating or under typical duty cycle or operational mode of the engine.
6. The equipment shall be source tested at least every 24 months using District approved test methods and protocol, to assure compliance with District emissions standards, unless otherwise directed in writing by the District.

7. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
(a) Old meter's hour reading
(b) Replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter
(c) Copy of receipt of new meter or of installation work order. A copy of the meter replacement notification shall be maintained onsite and made available to the Air Pollution Control District upon request.
(Rule 69.4.1, 17 CCR 93115)
8. A log showing daily hours of operation of the equipment shall be maintained on the premises and made available to the District upon request.
9. This engine shall use only California vehicular diesel fuel. Records of California diesel fuel certification shall be maintained on-site and made available to District personnel upon request.
10. Visible emissions including crank case smoke shall comply with Rule 50. (Rule 50)
11. Rule 51-public nuisance: equipment shall not cause or contribute to public nuisance.
12. Periodic inspections of this engine shall be conducted to ensure that the engine and control equipment is operated in compliance with the provisions of Rule 69.4.1. Inspections shall be conducted at least once every 4000 hours of operation, or every six months, whichever occurs first.
13. The following records shall be kept and maintained on-site for at least the same period of time as the engine to which the records apply:
(I) Engine manufacturer name and model number;
(II) Brake horsepower rating;
(III) Combustion method (i.e. rich-burn or lean-burn);
(IV) Fuel type (Diesel);
(V) California diesel fuel certification;
(VII) A manual of recommended maintenance as provided by the engine manufacturer, or other maintenance procedure as approved in writing by the Air Pollution Control Officer.
14. A maintenance log shall be kept and maintained for a minimum of 3 years.this log shall contain, at a minimum, the following:
(I) Records of engine inspection, including dates inspections were performed; and
(II) Records of engine maintenance, including dates maintenance was performed and the nature of the maintenance.
15. Records shall be maintained for at least three years and be made available to the District upon request.
16. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
17. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
18. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

INITIAL COMPLIANCE TEST

(Application No. 982718)

AIR POLLUTION CONTROL DISTRICT
COUNTY OF SAN DIEGO

Monitoring and Technical Services

10124 Old Grove Road
San Diego, CA 92131

Nitrogen Oxides & Carbon Monoxide Emissions Summary Report

SITE:	**BAE Systems** **Crane - POSD Dry Dock**	MAIL ADDRESS:	BAE Systems San Diego Ship Repair, Inc. P.O. Box 13308 San Diego, CA 92113 Attn. Alicia Ortiz
LOCATION:	2205 East Belt St. Foot of Sampson Street San Diego, CA 92113.		
APP. NUMBER:	982718		
ID #:	344A		TEST DATE: 6-Sep-06

PO # 962075
Replacement crane

EQUIPMENT: *Mitsubishi Fuso diesel engine, model 6D24TLA2F, s/n ME 442269 rated at 316 BHP, driving a crane on the POSD*

REPORT BY: L.Kear-Padilla DATE: 6-Oct-06

APCD PERSONNEL: G.R.Mortimore, L.Kear-Padilla, E.Davis (Eng.)

SITE PERSONNEL: Alicia Ortiz

APPROVED BY: Suzanne Blackburn, Senior Chemist

Table 1. Summary of Results - NOx and CO Stack Emissions Corrected to 15% O2

	TEST	PERMIT LIMITS	PERFORMANCE	HOURS OF TEST
NOx (ppm)	310	700	PASS	1.5
CO (ppm)	205	450	PASS	1.5
Fuel	Diesel; no dedicated fuel meter			
Engine output (BHP)	195; rated at 316 Performing normal cyclic operation with a 4000 lb weight			

TEST REFERENCE: This testing was performed in accordance with the San Diego Air Pollution Control District Method 100: "Test Procedures For The Determination of Nitrogen Oxides, Carbon Monoxide and Diluent Gases by Continuous Emission Monitoring."

GRM, 27-Feb-03, v3.8

INTERMEDIATE SUMMARY TABLE

Test Hrs	Sub-test number	Avg NO2 % of total NOx	Avg Raw NOx ppm	Avg. Raw NO ppm	NOx adj for drift & bias ppm	Avg. Raw CO ppm	CO adj for drift & bias ppm	Avg. Raw O2 %	O2 adj for drift & bias %	Corr NOx @ 15 % O2 ppm	Corr CO @ 15 % O2 ppm
10:04-10:34	1	23.0	246.7	192.3	260.8	152.8	161.5	16.29	16.24	329.3	203.9
11:11-11:41	2	24.2	226.6	173.4	240.6	149.1	158.5	16.31	16.29	307.5	202.6
12:21-12:51	3	25.0	212.9	161.4	227.1	151.8	161.5	16.36	16.36	294.3	209.2
	Average	24.1			242.8		160.5		16.30	310.4	205.2

CALIBRATION GASES.

Gas	Cylinder	Manufacturer	Conc.		Diluted to :	
NO	CA02999	Scott-Marrin	467.0	ppm	233.5	ppm
NO		Scott-Marrin		ppm	-	ppm
NO2	CC68607	Scott-Marrin	40.0	ppm	-	ppm
CO	CA02377	Scott-Marrin	1846.0	ppm	369,185	ppm
O2	CC7345	Scott-Marrin	8.44	%	-	%
O2	CC51235	Scott-Marrin	20.69	%	10.35	%
N2	CC60266	Scott-Marrin	-		-	

INSTRUMENTATION.

NOx analyser: Teco 42C (chemiluminescence) with high temperature converter.
CO analyser: Teco 48H (NDIR).
O2 analyser: Servomex 1440C (paramagnetic).
Standard gas divider: Stec model SGD-A10.

GRM, 27-Feb-03, v3.8

APP#: 982718 DATE: 6-Sep-06

RUN #1 Time: 10:04- 10:34

CALIBRATIONS:

		INITIAL		FINAL				
Gas	Calibration	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm)	Syst. Bias (%)	Conc. (ppm) (avg.)	Conc. (ppm) (actual)	Drift (% FS)
NO	direct	232.2		224.2		228.2	233.5	-1.6
	zero	0.0		0.0		0.0	0.0	0.0
	system	224.7	3.2	222.7	0.7	223.7	233.5	-0.4
	zero	0.0		0.0		0.0	0.0	0.0
NO2	direct	39.6		38.1		38.8	40.0	-0.3
	zero	0.0		0.5		0.3	0.0	0.1
	system	35.6	10.1	36.1	5.4	35.8	40.0	0.1
	zero	0.0		0.6		0.3	0.0	0.1
CO	direct	180.5		N/A		N/A	184.6	N/A
	zero	0.6		N/A		N/A	0.0	N/A
	system	176.7	0.9	173.7	N/A	175.2	184.6	-0.6
	zero	-2.8		-4.4		-3.6	0.0	-0.3
O2 as %	direct	20.87		N/A		N/A	20.69	N/A
	zero	0.02		N/A		N/A	0.00	N/A
	system	20.81	0.1	20.73	N/A	20.77	20.69	-0.3
	zero	-0.05		-0.05		-0.05	0.00	0.0

EMISSION VALUES:

GAS	CONCENTRATION			
	uncorrected	*corrected		
**NOx avg	246.7	260.8	ppm	
NO avg	192.3	200.7	ppm	Stack NO2 %
NO2 avg	54.4	60.1	ppm	23.0
CO avg	152.8	161.5	ppm	
O2 avg	16.29	16.24	%	

*Corrected for drift and system bias.

**NOx AVG corr. = (NO AVG corr.+NO2AVG corr.)

Analyser Range:

NOx 0- 500 ppm
CO 0- 500 ppm
O2 0- 25 %

GRM, 27-Feb-03, v3.8

APP#: 982718 DATE: 6-Sep-06

RUN #2 Time: 11:11- 11:41

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (ppm) (avg.)	Conc. (ppm) (actual)	Drift (% FS)
NO	direct	224.2		222.7		223.5	223.5	-0.3
	zero	0.0		0.0		0.0	0.0	0.0
	system	222.7	0.7	221.2	0.7	222.0	223.5	-0.3
	zero	0.0		0.0		0.0	0.0	0.0
NO2	direct	38.1		38.1		38.1	40.0	0.0
	zero	0.6		0.6		0.6	0.0	0.0
	system	36.1	5.4	36.1	5.4	36.1	40.0	0.0
	zero	0.6		0.6		0.6	0.0	0.0
CO	direct	N/A		N/A		N/A	N/A	N/A
	zero	N/A		N/A		N/A	N/A	N/A
	system	173.7	N/A	175.1	N/A	174.4	168.5	0.3
	zero	4.4		-4.8		-0.2	0.0	-0.1
O2 as %	direct	N/A		N/A		N/A	N/A	N/A
	zero	N/A		N/A		N/A	0.0	N/A
	system	20.73 %	N/A	20.71	N/A	20.72	20.29	-0.1
	zero	-0.05		-0.03		-0.04	0.00	0.1

EMISSION VALUES:

GAS	CONCENTRATION uncorrected	CONCENTRATION *corrected		
**NOx avg	226.6	240.6	ppm	
NO avg	173.4	182.4	ppm	Stack NO2 %
NO2 avg	53.2	58.2	ppm	24.2
CO avg	149.1	168.5	ppm	
O2 avg	16.31	16.29	%	

*Corrected for drift and system bias.

**NOx AVG corr. = (NO AVG corr.+NO2AVG corr.)

Analyser Range:

NOx 0- 500 ppm
CO 0- 500 ppm
O2 0- 25 %

GRM, 27-Feb-03, v3.8

APP#: 982718 DATE: 6-Sep-06

RUN #3 Time: 12:21- 12:51

CALIBRATIONS:

Gas	Calibration	INITIAL Conc. (ppm)	INITIAL Syst. Bias (%)	FINAL Conc. (ppm)	FINAL Syst. Bias (%)	Conc. (ppm) (avg.)	Conc. (ppm) (actual)	Drift (% FS)
NO	direct	222.7		222.7		222.7	222.7	0.0
	zero	0.0		0.0		0.0	0.0	0.0
	system	221.2	0.7	221.2	0.7	221.2	221.2	0.0
	zero	0.0		0.1		0.0	0.0	0.0
NO2	direct	38.1		38.1		38.1	38.1	0.0
	zero	0.6		0.1		0.6	0.1	-0.1
	system	36.1	5.4	36.1	5.4	36.1	36.1	0.0
	zero	0.6		0.6		0.6	0.6	0.0
CO	direct	N/A		173.9		N/A	N/A	N/A
	zero	N/A		-5.1		N/A	N/A	N/A
	system	176.1	N/A	173.4	0.3	176.1	176.1	-0.3
	zero	-4.8		-5.1		-4.8	-4.8	-0.1
O2 as %	direct	N/A		20.82		N/A	N/A	N/A
	zero	N/A		-0.03		N/A	N/A	N/A
	system	20.7	N/A	20.70	0.4	20.7	20.7	0.0
	zero	0.03		-0.06		0.03	0.03	-0.1

EMISSION VALUES:

GAS	CONCENTRATION uncorrected	CONCENTRATION *corrected		
**NOx avg	212.9	227.1	ppm	
NO avg	161.4	170.9	ppm	Stack NO2 %
NO2 avg	51.5	56.8	ppm	25.0
CO avg	151.8	151.8	ppm	
O2 avg	16.36	16.36	%	

*Corrected for drift and system bias.

**NOx AVG corr. = (NO AVG corr.+NO2AVG corr.)

Analyser Range:

NOx 0- 500 ppm
CO 0- 500 ppm
O2 0- 25 %

GRM, 27-Feb-03, v3.8

APP#: 982718 DATE: 6-Sep-06

QA/QC CHECKS (continued).

SGD FIELD EVALUATION, (limits: all differences +/-2%).
Gas used: 20.69 %O2 Scale: 0 - 25 %

Gas diluted to: (%)	SGD gas/zero values (%) 1	2	3	Injection values (%) 1	2	3	Average	Actual gas conc. (%)
100	20.87	20.86	20.87	20.89	20.88	20.89	20.89	20.69
	-0.02	-0.02	-0.02				1.0	% diff. of avg. from act. val.
				0.0	0.0	0.0		% diff. from avg.
50	10.28	10.28	10.29	10.30	10.30	10.31	10.30	10.35
	-0.02	-0.02	-0.02				0.4	% diff. of avg. from act. val.
				0.0	0.0	0.1		% diff. from avg.
40	8.21	8.20	8.21	8.23	8.22	8.23	8.23	8.28
	-0.02	-0.02	-0.02				-0.6	% diff. of avg. from act. val.
				0.0	-0.1	0.0		% diff. from avg.
20	4.08	4.07	4.08	4.10	4.09	4.10	4.10	4.14
	-0.02	-0.02	-0.02				-1.0	% diff. of avg. from act. val.
				0.1	-0.2	0.1		% diff. from avg.
10	2.03	2.02	2.02	2.05	2.04	2.04	2.04	2.07
	-0.02	-0.02	-0.02				-1.2	% diff. of avg. from act. val.
				0.3	-0.2	0.2		% diff. from avg.

MID-LEVEL GAS CONCENTRATION DIRECT TO ANALYSER, (limit: difference +/-2%).

Gas used: 8.44 % O2 Scale: 0- 25 %

		Inj. #1	Inj. #2	Inj. #3	Avg.
Instrument response (%)	dir. gas val.	8.50	8.49	8.50	
	zero	0.02	0.02	0.02	
	diff.	8.52	8.51	8.52	8.52
	Certified dir. gas value (%)				8.44
	Diff. %				0.9

CONVERTER EFFICIENCY, (must be >90%).

	NOx Mode	NO Mode
NO2 dir (ppm)	39.6	1.0
NO2 zero (ppm)	0.0	0.0
Conv. eff. (%)		96.4

NO2 gas: 40.0 ppm

MULTI-POINT CALIBRATION INSTRUMENT CHECK, (limit: instr. val. within 2% of full scale of predict. val.).

Conc. level	Gas concn. NO ppm	CO ppm	O2%	Instr. response NO ppm	CO ppm	O2 %
High	467.0	359.2	20.69	467.5	368.1	20.87
Zero	0.0	0.0	0.00	0.0	-0.6	-0.02
Mid	233.5	184.6	10.35	232.2	180.5	10.29
			Scale, 0-	500	500	25
			Slope	1.0	1.00	0.99
			Intercept	0.0	0.6	0.0
			Mid (predict.)	233.7	183.8	10.43
			Diff. (% full scale)	-0.3	0.7	-0.5

GRM, 27-Feb-03, v3.8

Mechanical Engineering
Source Test Report
Permit Renewal Test

Test Date : September 6, 2006 **Engineer:** Earnest Davis

Site: Southwest Marine, Inc. **Permit To Operate No.** 962075
APPLICATION No. 982718

Equipment: I.C. Engine : 316 BHP Mitsubishi Fuso Diesel Engine, Model 6D24-TLA2F, with a Mechanical Drive, Powering A 90 Ton Crane On The POSD Dry Dock.

Run No.	Run 1	Run 2	Run 3
Time Interval	10:04 AM -10:34 AM	11:11 AM-11:41 AM	12:21 PM -12:51 PM

Test Results:

- Weight used by crane during source test: 4000 lb weight (excluding weight from headache ball)
- Approximate distance traveled of weight per cycle: 100 ft
- Average time for weight to ascend per cycle : 120 seconds
- Average time for weight to descend per cycle : 108 seconds
- Visible emissions were less than 5 % at the exhaust stack during idle mode. Opacity of less than 20% for less than 3 seconds during lifts of the weight and the descent of lifted objects.
- Approximate Maximum Power Output = (tension in line) x rate =

  (Mass of weight X g_c) X {rate} X conversion factor =

  $$[(4000\ lb_m) X (32.174\ ft\text{-}lb_m/lb_f\text{-}s^2)] X \{(100\ ft/120\ s)\} X \frac{(1\ HP)}{(550\ ft\text{-}lb_f/s)} = 195\ HP^*$$

- *Percent load is Actual Load/ Rated Capacity = 195 BHP / 316 BHP = 62% load.*

* Crane No. 23774 is a "straight mechanical drive" crane with no generator. Power output from the engine is estimated.

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD1997-NTC-12434	05/20/1997		Closed

Type
LUEG-APCD/ComplianceNotice to Comply/NA

Short Notes

Detailed Description

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	0.00	0.00	0.00

Expiration Status Expiration Date Record Name

Form: APCD Single Entry Edit July 2011

APCD NTC Mailing *(This section is not required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD NTC Mailing			LENA BEST

Relationship: -Select-
Title:
Organization Name: SOUTHWEST MARINE INC
Primary: Yes
Street Address: P O BOX 13308
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

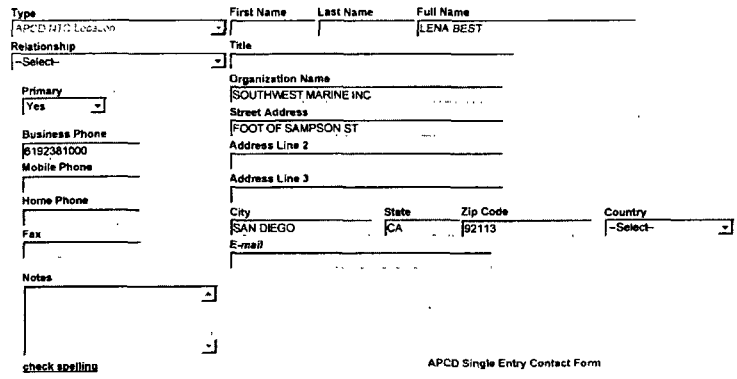
City	State	Zip Code	Country
SAN DIEGO	CA	92170	-Select-

Fax:
E-mail:
Notes:

check spelling

APCD NTC Location *(This section is not required)*

Search As Contact

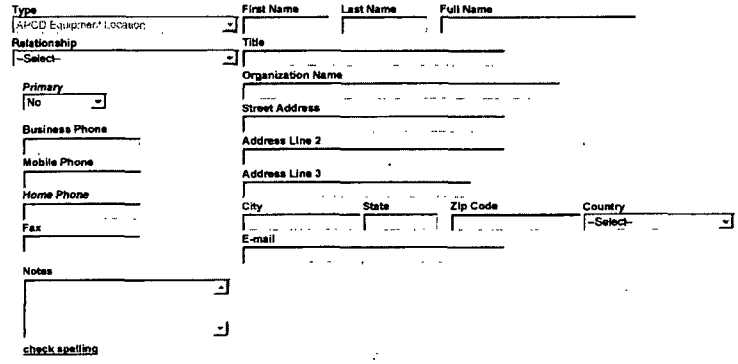


Type: APCD NTC Location | First Name | Last Name | Full Name: LENA BEST
Relationship: --Select-- | Title
Primary: Yes | Organization Name: SOUTHWEST MARINE INC
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000 | Address Line 2
Mobile Phone | Address Line 3
Home Phone
City: SAN DIEGO | State: CA | Zip Code: 92113 | Country: --Select--
Fax | E-mail
Notes
check spelling

APCD Single Entry Contact Form

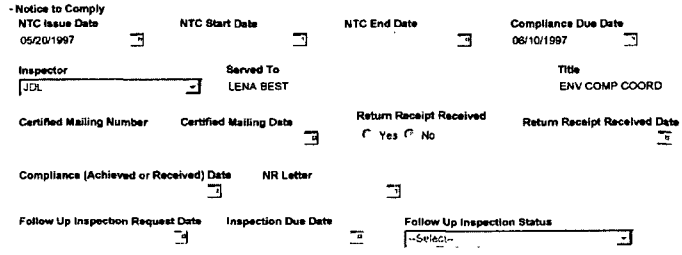
APCD Equipment Location *(This section is not required.)*

Search As Contact



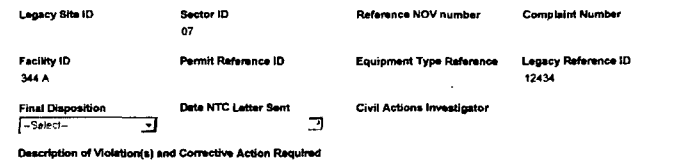
Type: APCD Equipment Location | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Street Address
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone
City | State | Zip Code | Country: --Select--
Fax | E-mail
Notes
check spelling

- Notice to Comply



NTC Issue Date: 05/20/1997 | NTC Start Date | NTC End Date | Compliance Due Date: 06/10/1997
Inspector: JDL | Served To: LENA BEST | Title: ENV COMP COORD
Certified Mailing Number | Certified Mailing Date | Return Receipt Received: Yes No | Return Receipt Received Date
Compliance (Achieved or Received) Date | NR Letter
Follow Up Inspection Request Date | Inspection Due Date | Follow Up Inspection Status: --Select--

Legacy Information



Legacy Site ID | Sector ID: 07 | Reference NOV number | Complaint Number
Facility ID: 344 A | Permit Reference ID | Equipment Type Reference | Legacy Reference ID: 12434
Final Disposition: --Select-- | Date NTC Letter Sent | Civil Actions Investigator

Description of Violation(s) and Corrective Action Required

FAILING TO SUBMIT AN APPLICATION FOR A P/O FOR A 5 MM BTU/HR BOILER (MFR. MOHAWK, MODEL 4-X-751, S/N 11672), CORRECT BY SUBMITTING ANAPPLICATION WITH FEES OR DISCONTINUE USE. FAILING TO SUBMIT AP'S FORAUTHORITY TO OPERATE BY 9/27/96 FOR VARIOUS I.C. ENGINES [CLOSED -CERTIFIED COMPLIANCE]

check spelling

Corrective Action

APCD_NTC Rev Apr 2011

Record Specific Info Tables

NOTICE TO COMPLY Add Delete CSV Export

Condition Number(Text)	Rule(Text)	Rule Description(Text)
	D 10(a)	
	D 10(b)	

NTC_COUNTS Add Delete CSV Export

Count(Text)	Law Type(Text)	Category(Text)	Rule(Text)	Rule Description(Text Area)	Description of Violation(Text Area)	Corrective Action Required(Text Area)	Corrective Action Taken

Related Records

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2013-CMP-0569	Toxic smoke	LUEG-APCD/Complaint/NA/NA	Closed	12/03/2013	Miguel Jauregui	COSD/LUEG...		
APCD2013-CER-000449	New Install 34X	LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/06/2013	Arnold Peneda	COSD/LUEG .		
APCD2010-CER-000226	New app for existin..	LUEG-APCD/Certificate App/IC Engine Status/NA	Approved	11/05/2010	Suha Haddad	COSD/LUEG...		C
APCD2009-JOB-000011		LUEG-APCD/Job/NA/NA	Approved	09/08/2009	SROMELCZ	COSD/LUEG..		
APCD2003-PTO-020208		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				A
APCD2005-APP-030067		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-030062		LUEG-APCD/Permit App/Material Application/Marine Coating	Approved	07/31/2009	LWA	C		M
APCD1985-APP-030061		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	07/31/2009	JJS	M		B
APCD1985-APP-030064		LUEG-APCD/Permit App/Internal Combustion Engines/NA	Approved	07/31/2009	JJS	M		D
APCD1986-APP-041082		LUEG-APCD/Permit App/Abrasive Blasting/Pot-Machine	Cancelled	07/31/2009	CW	M		A

« ‹ 1 2 3 4 5 6 7 8 9 10 › »

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2003-PTO-962010	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
PORTABLE ENGINE ARC WELDER: 67 HORSEPOWER WHITE GASOLINE ENGINE, MODELG-3400 X328, SERIAL NUMBER 332-8971 USING A 3 WAY CATALYTIC CONVERTER FORNOX, CO AND HYDROCARBON REDUCTION. 962010 GDS 10/99

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
--Select--		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
--Select--		--Select--		392.50	392.50	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2001	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship: --Select--
Title:
Organization Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR INC
Primary: Yes
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	--Select--

Fax: 6195950459
E-mail:

Notes

check spelling

APCD Invoice Mailing *(This section is not required.)*

Search As Contact

Type: APCD Invoice Mailing | First Name | Last Name | Full Name: DIR OF ENV SVCS HALVAXSANDOR
Relationship: --Select-- | Title
Primary: Yes | Organization Name: BAE SYSTEMS SAN DEGO SHIP REPAIR INC
Business Phone | Street Address: PO BOX 13308
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 921703308 | Country: --Select--
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required)*

Search As Contact

Type: APCD PTO Mailing | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select--
E-mail
Notes
check spelling

- Permit to Operate

Permit Description: *Enter Equipment description - data appears on Permit to Operate Report*
check spelling

Renewal Information
Expiration Month | Delinquent Month

Source Test Information
Source Test Required: C Yes C No
Source Test Alias
Source Test Frequency: --Select--
Remarks

BEC: *Example APCD2011-CON-123456* | Type - [Portable/Stationary]: --Select-- | Legacy Data
Throughput | Unit of Measure | Inspection Frequency: --Select-- | Legacy Reference ID: 962010
Capacity: 67 | Unit of Measure 2: hp | Inspection Date | Legacy BEC: 10934

RSI APCD_PER Ver Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units/Number | Equipment Type | Assess on Renewal

VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction Street Name Street Type

–Select– –Select–

City State Zip Code Address Status Primary X Coordinate

–Select– Yes

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

–Select–

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2003-PTO-962010		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				P
APCD1997-CER-962010		LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/10/1997		M		P

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2005-PTO-961998	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
MOHAWK BOILER, MODEL 4-X-751, S/N 11672, 6.75 MM BTU/HR, NATURAL GAS FIRED 961998AFS29OCT1998 THIS UNIT IS PORTABLE AT SW MARINE FACILITY, BUT ISCONSIDERED STATIONARY BECAUSE IT DOES NOT LEAVE SITE.

check spelling

Entered by Division (Current Division)	Entered/Updated by: * (Current User)	Entered Date
--Select--	--Select--	

Division (Current Division)	Assigned to: (Current User)	Invoiced	Paid	Balance
--Select--	--Select--	1,080.00	1,080.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2005	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship: --Select--
Title:
Organization Name: BAE SYSTEMS SAN DEGO SHIP REPAIR INC
Primary: Yes
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	--Select--

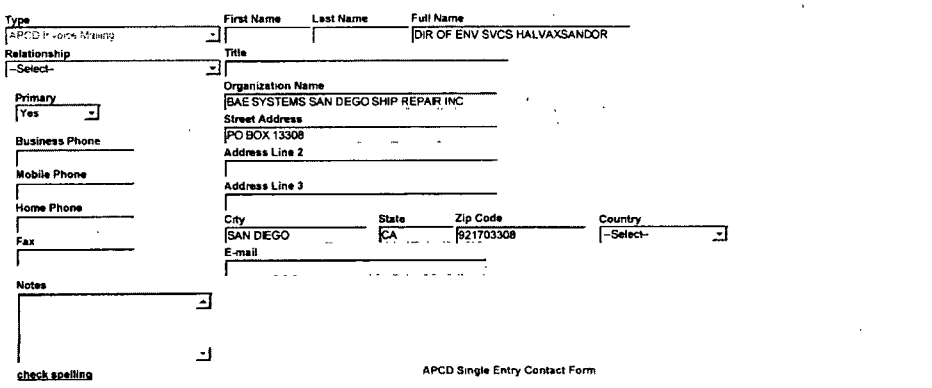
Fax: 6195950459
E-mail:

Notes

check spelling

APCD Invoice Mailing *(This section is not required)*

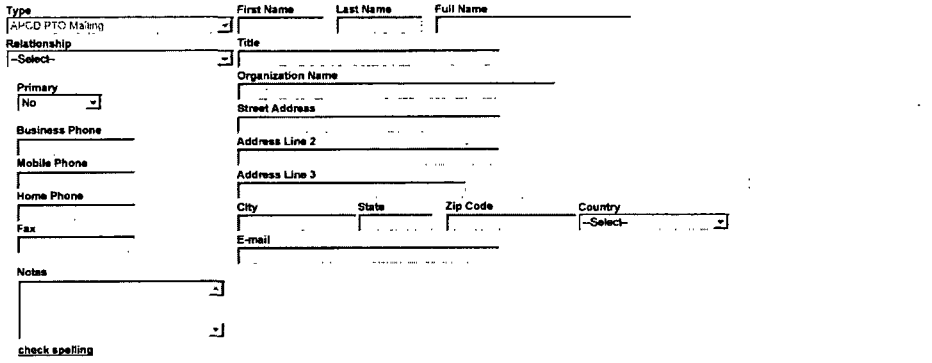
Search As Contact


Type: APCD Permit Mailing | First Name | Last Name | Full Name: DIR OF ENV SVCS HALVAXSANDOR
Relationship: --Select-- | Title
Primary: Yes | Organization Name: BAE SYSTEMS SAN DEGO SHIP REPAIR INC
Business Phone | Street Address: PO BOX 13308
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 921703308 | Country: --Select-
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required.)*

Search As Contact


Type: APCD PTO Mailing | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select-
E-mail
Notes
check spelling

- Permit to Operate

Permit Description: *Enter Equipment description - data appears on Permit to Operate Report*
check spelling

Renewal Information
Expiration Month | Delinquent Month

Source Test Information
Source Test Required: C Yes C No
Source Test Alias
Source Test Frequency: --Select--
Remarks

BEC: *Example APCD2011-CON-123456* | Type - [Portable/Stationary]: --Select--
Throughput | Unit of Measure | Inspection Frequency: -Select-
Capacity | Unit of Measure 2 | Inspection Date

Legacy Data
Legacy Reference ID: 961998
Legacy BEC: 11291

RSI APCD_PER Ver Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units(Number)* Equipment Type* Assess on Renewal*

VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction Street Name Street Type

–Select–

City State Zip Code Address Status Primary

–Select– Yes

X Coordinate

Description Street Address

Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

–Select–

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2005-PTO-961998		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				M
APCD1997-APP-961998		LUEG-APCD/Permit App/Boilers and Heaters/<50 MM BTU	Approved	06/11/1997	AFS	M		B

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2003-PTO-962002	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
DIESEL ENGINE GENERATOR. 469 HORSEPOWER PRE 1983 GENERAL MOTORS DIESELENGINE MODEL 8-278A, SERIAL NUMBER 15452 WITH 350 KW GENERATOR ON AFDLDRYDOCK. 962002
GDS 10/99

check spelling

Entered by Division (Current Division)	Entered/Updated by: * (Current User)	Entered Date
--Select--	--Select--	

Division (Current Division)	Assigned to: (Current User)	Invoiced	Paid	Balance
--Select--	--Select--	405.00	405.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2003	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR INC
Business Phone: 6192381000
Street Address: FOOT OF SAMPSON ST
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:
Fax: 6195950459

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	--Select--

E-mail:
Notes:

check spelling

APCD Invoice Mailing *(This section is not required.)*

Search As Contact

Type: APCD Invoice Mailing | First Name | Last Name | Full Name: DIR OF ENV SVCS HALVAXSANDOR
Relationship: --Select-- | Title
Primary: Yes | Organization Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR INC
Business Phone | Street Address: PO BOX 13308
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 921703308 | Country: --Select-
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required.)*

Search As Contact

Type: APCD PTO Mailing | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select-
E-mail
Notes
check spelling

- Permit to Operate

Permit Description: *Enter Equipment description - data appears on Permit to Operate Report*
check spelling

Renewal Information
Expiration Month | Delinquent Month

Source Test Information
Source Test Required: C Yes C No
Source Test Alias
Source Test Frequency: --Select--
Remarks

BEC: *Example APCD2011-CON-123456*
Type - [Portable/Stationary]: --Select--
Throughput | Unit of Measure | Inspection Frequency: --Select--
Capacity: 469 | Unit of Measure 2: hp | Inspection Date

Legacy Data
Legacy Reference ID: 962002
Legacy BEC: 10931

RSI: APCD_PER Ver: Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units(Number)* | Equipment Type* | Assess on Renewal*

VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction --Select-- Street Name Street Type --Select--

City State Zip Code Address Status --Select-- Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

--Select--

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2003-PTO-962002		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				D
APCD2000-NTC-15541		LUEG-APCD/Compliance/Notice to Comply/NA	Closed	09/11/2000	Greg Gjerde	COSD/LUEG		
APCD1997-CER-962002		LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/10/1997		M		S

1

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
(858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 05, P
Site ID: APCD1980-SITE-00204
App ID: APCD1997-CER-962006

PERMIT ID
APCD2009-PTO-962006

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

CERTIFICATE OF REGISTRATION

EXPIRES: September 30, 2014

This Certificate is not valid until required fees are received by the District.

The above is hereby granted a Certificate of Registration for the article, machine, equipment or contrivance described below. This Certificate of Registration is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Certificate of Registration or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

PORTABLE DIESEL ENGINE: 120 HORSEPOWER 1993 DETROIT DIESEL ENGINE MODEL 471-4055G SERIAL NUMBER 4A83021 TO OPERATE A WINCH. 962006 GDS 10/99 {1/12010 EXEMPT FROM 17CCR93116 BY 17CCR93118.5(c)(7)(C) FINAL REG ORDER}

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 2, 12/12.1, 40, 50, 51.

Fee Schedules: 1 [34X] Registered Portable Engine (Rule 12.1)

BEC: 10979

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. PM10 emissions, excluding area fugitives, from a unit shall not exceed either 0.10 grains per dry standard cubic foot or 150 pounds per day.

2. The actual emissions of any air contaminant, except area fugitive emissions from this unit, as verified by required recordkeeping, shall not exceed 10 tons per calendar year (January through December) in any Air Pollution Control District in which such unit is operated.

3. Except for emergency operations, an emission unit shall not be operated within 1,000 feet of any K-12 school unless California Health and Safety Code section 42301.6 is met.

4. The sulfur content of any liquid fuel used shall not exceed 0.05 percent by weight.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
(858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

PERMIT ID
APCD2009-PTO-962006

CERTIFICATE OF REGISTRATION

EXPIRES: September 30, 2014

5. The operator shall notify the District within 2 days from when a registered unit is relocated into the District. The notification shall be as specified in Rule 12.1.

6. As part of the rental agreement, the owner of a registered rental unit shall provide the operator with a copy of applicable requirements of Rule 12.1 including notification and recordkeeping.

7. The following records regarding operation of this equipment in San Diego County shall be maintained and made available to the District for at least 2 years from the date recorded. Records shall be provided to each participating Air Pollution Control District in which the equipment was operated within 30 days after the end of every calendar quarter:
   I. The date and locations at which the equipment was operated.
   II. Date and hours of operation or the type and quantity of fuels consumed on a daily basis.

8. Visible emissions including crank case smoke shall comply with Rule 50. (Rule 50)

9. An emission unit is not portable if any of the following apply:
   The unit, or its replacement, is attached to a foundation or, if not so attached, will reside at the same location for more than 12- consecutive months; or
   The emission unit remains or will reside at a location for less than 12- consecutive months if the unit is located at a seasonal source and operates during the full annual operating period of the seasonal source; or
   The emission unit is moved from one location to another in an attempt to circumvent the portable emission unit residence time requirements.

10. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)

11. A copy of this registration certificate must be kept with the equipment and presented upon request to the Air Pollution Control District.

12. Days when a portable emission unit is stored in a designated holding or storage area shall not be counted towards the above time limits, provided the emission unit was not operated on that calendar day except for maintenance and was in the designated holding or storage area the entire calendar day.

13. In the event that a portable emission unit is not portable the holder of this certificate of registration shall submit an application for a permit to operate to the District.

14. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

15. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
(858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

PERMIT ID
APCD2009-PTO-962006

CERTIFICATE OF REGISTRATION

EXPIRES: September 30, 2014

16. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

Save Reset Cancel Help

Record Detail * *(This section is required.)*

Record ID	Opened Date	Closed Date	Status
APCD2003-PTO-962000	07/31/2009		Retred

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
DIESEL ENGINE GENERATOR 469 HORSEPOWER PRE 1983 GENERAL MOTORS DIESELENGINE MODEL 8-278A, SERIAL NUMBER 45038 WITH 350 KW GENERATOR ON AFDLDRYDOCK 962000 GDS 10/99

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
--Select--		--Select--		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
--Select--		--Select--		405 00	405 00	0 00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2003	

Form. APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required.)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS,HALVAXSANDORR

Relationship: --Select--
Title:
Primary: Yes
Organization Name: BAE SYSTEMS SAN DEGO SHIP REPAIR INC
Street Address: FOOT OF SAMPSON ST
Business Phone: 6192381000
Address Line 2:
Mobile Phone:
Address Line 3:
Home Phone:

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	--Select--

Fax: 6195950459
E-mail:

Notes

check spelling

APCD Invoice Mailing *(This section is not required.)*

Search As Contact

Type: APCD Invoice Mailing | First Name | Last Name | Full Name: DIR OF ENV SVCS HALVAXSANDOR
Relationship: --Select-- | Title
Primary: Yes | Organization Name: BAE SYSTEMS SAN DEGO SHIP REPAIR INC
Business Phone | Street Address: PO BOX 13308
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City: SAN DIEGO | State: CA | Zip Code: 921703308 | Country: --Select-
E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required.)*

Search As Contact

Type: APCD PTO Mailing | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Business Phone | Street Address
Mobile Phone | Address Line 2
Home Phone | Address Line 3
Fax | City | State | Zip Code | Country: --Select-
E-mail
Notes
check spelling

- Permit to Operate

Permit Description: *Enter Equipment description - data appears on Permit to Operate Report*
check spelling

Renewal Information
Expiration Month | Delinquent Month

Source Test Information
Source Test Required: Yes No
Source Test Alias
Source Test Frequency: --Select--
Remarks

BEC: *Example APCD2011-CON-123456* | Type - [Portable/Stationary]: --Select-- | Legacy Data
Throughput | Unit of Measure | Inspection Frequency: Select- | Legacy Reference ID: 962000
Capacity: 489 | Unit of Measure 2: hp | Inspection Date | Legacy BEC: 10931

RSI APCD_PER Ver: Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units(Number)* Equipment Type* Assess on Renewal*

VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction --Select-- Street Name Street Type --Select--

City State Zip Code Address Status --Select-- Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

--Select--

Related Records

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2003-PTO-962000		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				D
APCD1997-CER-962000		LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/10/1997		M		S

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2003-PTO-962007	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
PORTABLE DIESEL ENGINE: 310 HORSEPOWER 1993 CUMMINS DIESEL ENGINE MODELNT8556310, SERIAL NUMBER 10929770 WITH TURBOCHARGER AND AFTERCOOLER 962007
GDS 10/99

check spelling

Entered by Division Current Division	Entered/Updated by: * Current User	Entered Date
-Select-	-Select-	

Division Current Division	Assigned to: Current User	Invoiced	Paid	Balance
-Select-	-Select-	392 50	392 50	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/2001	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship -Select-

Title

Organization Name BAE SYSTEMS SAN DEGO SHIP REPAR INC

Primary Yes

Street Address FOOT OF SAMPSON ST

Business Phone 6182381000

Address Line 2

Mobile Phone

Address Line 3

Home Phone

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	-Select-

Fax 6195950459

E-mail

Notes

check spelling

APCD Invoice Mailing *(This section is not required)*

Search As Contact

Type: APCD Permit Mailing | First Name | Last Name | Full Name: DIR OF ENV SVCS HALVAXSANDOR

Relationship: --Select-- | Title

Primary: Yes | Organization Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR INC

Business Phone | Street Address: PO BOX 13308

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City: SAN DIEGO | State: CA | Zip Code: 921703308 | Country: --Select-

E-mail

Notes

check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required)*

Search As Contact

Type: APCD PTO Mailing | First Name | Last Name | Full Name

Relationship: --Select- | Title

Primary: No | Organization Name

Business Phone | Street Address

Mobile Phone | Address Line 2

Home Phone | Address Line 3

Fax | City | State | Zip Code | Country: --Select-

E-mail

Notes

check spelling

- Permit to Operate

Permit Description: *Enter Equipment description - data appears on Permit to Operate Report*

check spelling

Renewal Information

Expiration Month | Delinquent Month

Source Test Information

Source Test Required: C Yes C No

Source Test Alias

BEC: *Example APCD2011-CON-123456* | Type - [Portable/Stationary]: --Select-

Legacy Data

Legacy Reference ID: 962007

Source Test Frequency: --Select-

Throughput | Unit of Measure | Inspection Frequency: --Select--

Legacy BEC: 10979

Remarks

Capacity: 310 | Unit of Measure 2: hp | Inspection Date

RSI APCD_PER Ver. Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units/Number | Equipment Type | Assess on Renewal

VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel # * Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction Street Name Street Type

--Select-- --Select--

City State Zip Code Address Status Primary X Coordinate

--Select-- Yes

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation *

--Select--

Related Records

1

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2003-PTO-962007		LUEG-APCD/Administrative/Permit To Operate/NA	Retired	07/31/2009				P
APCD1997-CER-962007		LUEG-APCD/Certificate App/Spark IC Engine/NA	Approved	06/10/1997		M		P

1

Submit Cancel

Save Reset Cancel Help

Record Detail * *(This section is required)*

Record ID	Opened Date	Closed Date	Status
APCD2000-PTO-961999	07/31/2009		Retired

Type
LUEG-APCD/Administrative/Permit To Operate/NA

Short Notes

Detailed Description
THIS EQUIPMENT NO LONGER EXISTS. PO WAS ENTERED IN ERROR

check spelling

Entered by Division	Current Division	Entered/Updated by: *	Current User	Entered Date
-Select-		-Select-		

Division	Current Division	Assigned to:	Current User	Invoiced	Paid	Balance
-Select-		-Select-		0.00	0.00	0.00

Expiration Status	Expiration Date	Record Name
Inactive	09/01/1998	

Form: APCD Single Entry Edit July 2011

APCD Equipment Location * *(This section is required)*

Search As Contact

Type *	First Name	Last Name	Full Name
APCD Equipment Location			DIR OF ENV SVCS HALVAXSANDORR

Relationship
-Select-

Title

Organization Name
BAE SYSTEMS SAN DIEGO SHIP REPAIR INC

Primary
Yes

Street Address
FOOT OF SAMPSON ST

Business Phone
6192381000

Address Line 2

Mobile Phone

Address Line 3

Home Phone

City	State	Zip Code	Country
SAN DIEGO	CA	921130000	-Select-

Fax
6195950459

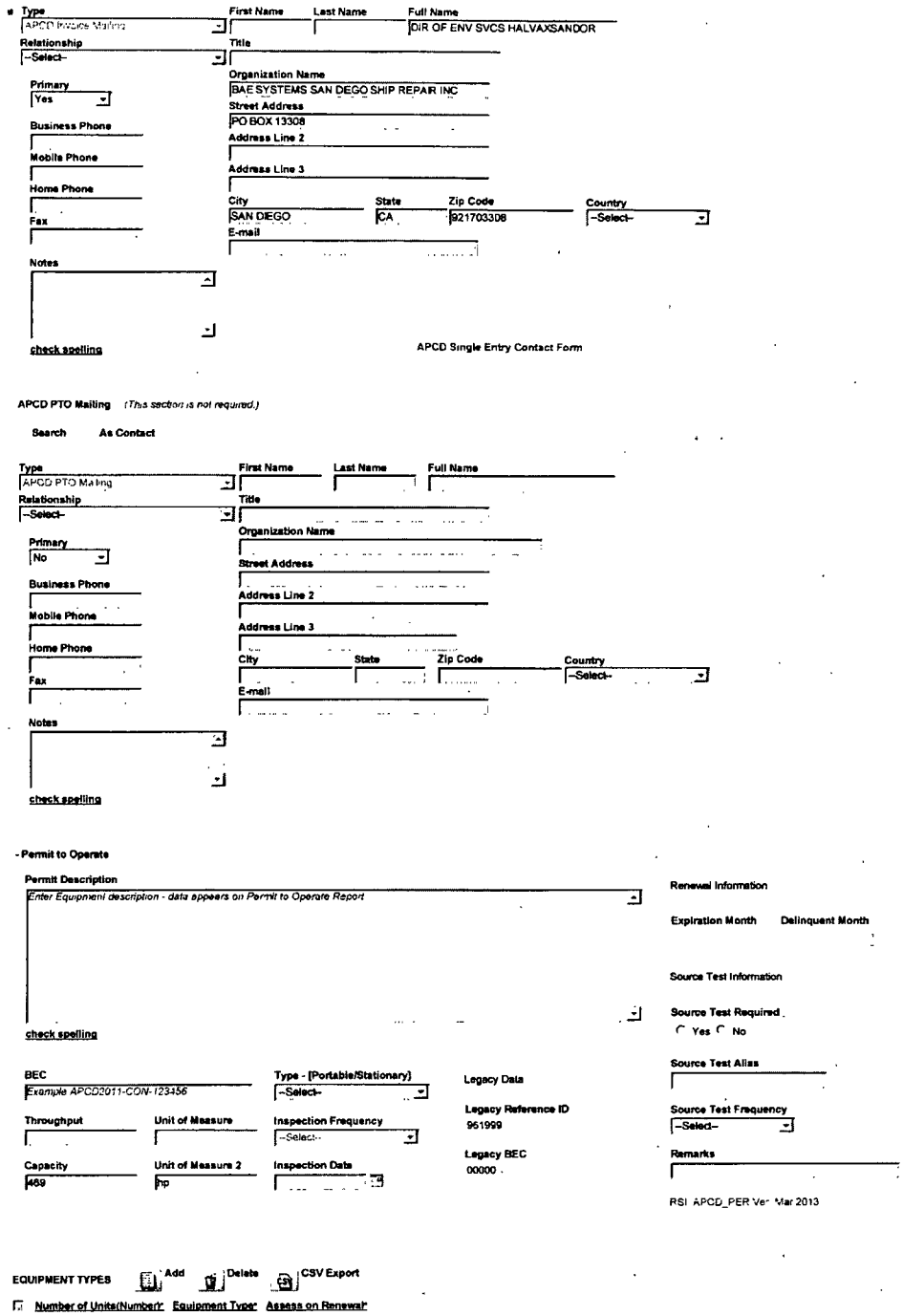
E-mail

Notes

check spelling

APCD Invoice Mailing *(This section is not required)*

Search As Contact



* Type: APCD Invoice Mailing | First Name | Last Name | Full Name: DIR OF ENV SVCS HALVAXSANDOR
Relationship: --Select-- | Title
Primary: Yes | Organization Name: BAE SYSTEMS SAN DIEGO SHIP REPAIR INC
Street Address: PO BOX 13308
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City: SAN DIEGO | State: CA | Zip Code: 921703308 | Country: --Select-
Fax | E-mail
Notes
check spelling

APCD Single Entry Contact Form

APCD PTO Mailing *(This section is not required.)*

Search As Contact

Type: APCD PTO Mailing | First Name | Last Name | Full Name
Relationship: --Select-- | Title
Primary: No | Organization Name
Street Address
Business Phone | Address Line 2
Mobile Phone | Address Line 3
Home Phone | City | State | Zip Code | Country: --Select-
Fax | E-mail
Notes
check spelling

- Permit to Operate

Permit Description: *Enter Equipment description - data appears on Permit to Operate Report*
check spelling

Renewal Information
Expiration Month | Delinquent Month

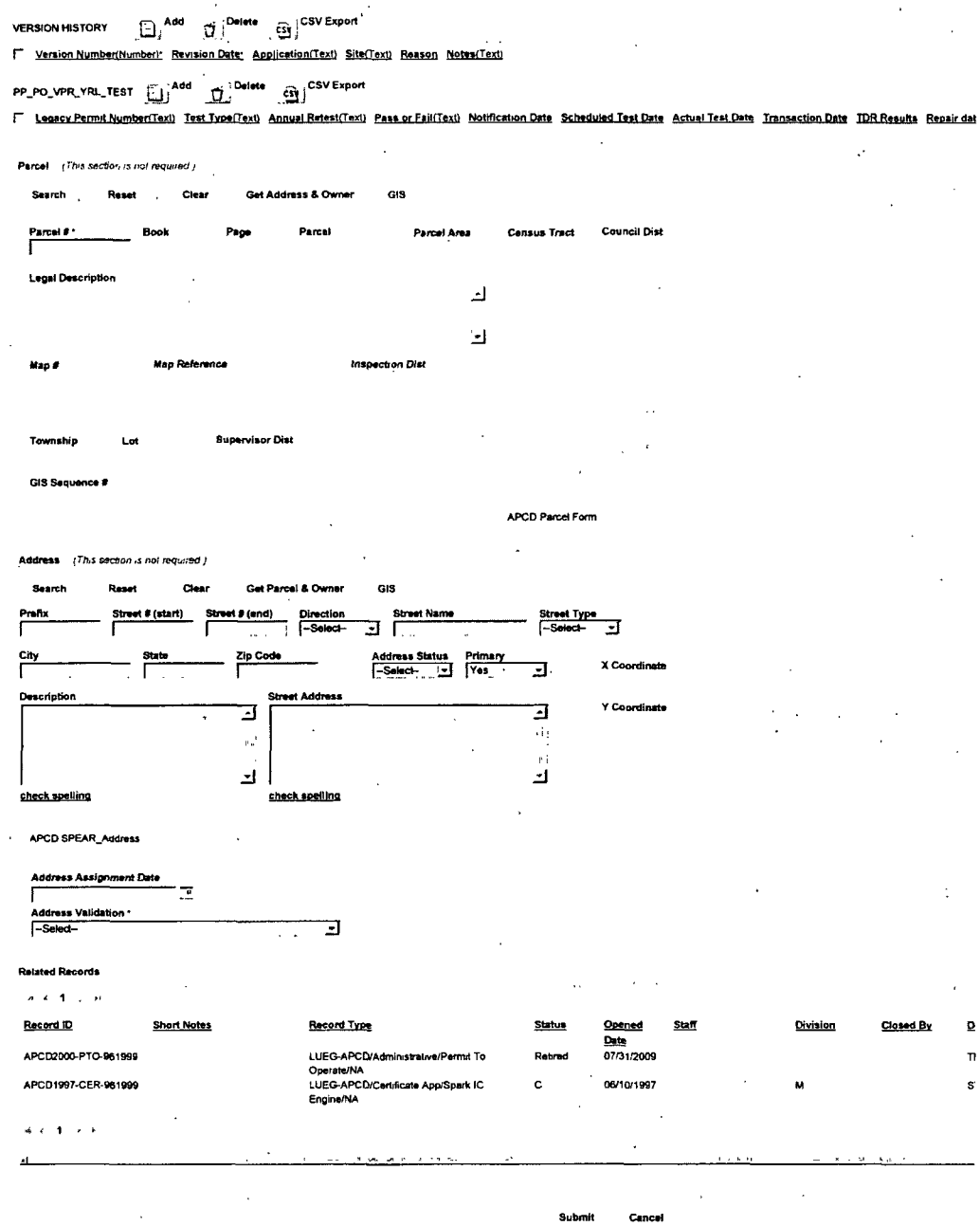
Source Test Information
Source Test Required: Yes No
Source Test Alias
Source Test Frequency: --Select--
Remarks

BEC: *Example APCD2011-CON-123456* | Type - [Portable/Stationary]: --Select-- | Legacy Data
Throughput | Unit of Measure | Inspection Frequency: --Select-- | Legacy Reference ID: 961999
Capacity: 469 | Unit of Measure 2: hp | Inspection Date | Legacy BEC: 00000

RSI APCD_PER Ver Mar 2013

EQUIPMENT TYPES Add Delete CSV Export

Number of Units(Number)* Equipment Type* Assess on Renewal*



VERSION HISTORY Add Delete CSV Export

Version Number(Number)* Revision Date* Application(Text) Site(Text) Reason Notes(Text)

PP_PO_VPR_YRL_TEST Add Delete CSV Export

Legacy Permit Number(Text) Test Type(Text) Annual Retest(Text) Pass or Fail(Text) Notification Date Scheduled Test Date Actual Test Date Transaction Date TDR Results Repair dat

Parcel *(This section is not required.)*

Search Reset Clear Get Address & Owner GIS

Parcel #* Book Page Parcel Parcel Area Census Tract Council Dist

Legal Description

Map # Map Reference Inspection Dist

Township Lot Supervisor Dist

GIS Sequence #

APCD Parcel Form

Address *(This section is not required.)*

Search Reset Clear Get Parcel & Owner GIS

Prefix Street # (start) Street # (end) Direction –Select– Street Name Street Type –Select–

City State Zip Code Address Status –Select– Primary Yes X Coordinate

Description Street Address Y Coordinate

check spelling check spelling

APCD SPEAR_Address

Address Assignment Date

Address Validation* –Select–

Related Records

« < 1 > »

Record ID	Short Notes	Record Type	Status	Opened Date	Staff	Division	Closed By	D
APCD2000-PTO-961999		LUEG-APCD/Administrative/Permit To Operate/NA	Retred	07/31/2009				TI
APCD1997-CER-961999		LUEG-APCD/Certificate App/Spark IC Engine/NA	C	06/10/1997		M		S

« < 1 > »

Submit Cancel

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2002-APP-977570

PERMIT ID
APCD2005-PTO-971846

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

MARINE COATING & ADHESIVE MATERIALS APPLICATION OPERATION (PORTABLE, TYPE III): CONDUCTED INSIDE & OUTSIDE MARINE VESSELS, USING (37) WAGNER MDL G-10 AIRLESS, SN'S E-1 THRU E-7, 12, 52, 61, 76, 81, 85, 88, 90, 91, 100 THRU 120; (10) GRACO MDL 236-99HP, SN'S 201 THRU 210; (2) GRACO MASTIC, SN'S 31 & 32; (2) GRACO AIRLESS, SN'S 1 & 2; (25) DEVILBISS MDL JGHV-531 HVLP, SN'S 4, 8, 11, 19, 20, 22, 23, 24, 28, 29, 50 THRU 64 AND (10) ANEST IWATAMDL LPH-200 HVLP, SN'S 100 THRU 109 SPRAY GUNS, BRUSHES, ROLLERS, TROWELS, AND CAULKING GUNS TO APPLY BACT-COMPLIANT MARINE COATINGS & SOLVENTS AND RULE 67.21 COMPLIANT ADHESIVE MATERIALS.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [27C] Marine Coating - Additional
1 [27U] Adhesive Materials Application Station

BEC: 12224

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Total Volatile Organic Compound (VOC) emissions, in tons per year, from this portable equipment shall be offset in accordance with District Rule 20.4(d)(5)(ii). VOC emissions shall be limited to the total of leased and/or purchased Emission Reduction Credits (ERC) divided by 1.2. Records of ERC currently leased and/or owned by the permittee and a copy of each lease or purchase agreement shall be retained on-site and provided to the District upon request.
2. The above VOC emissions limits apply only when these portable equipment are operated at stationary sources which have actual emissions of more than 25 tons per year of VOCs or have aggregate potentials to emit of more than 50 tons per year of VOCs. Attached is a list of "sites with estimated actual emissions of 25 tons/year or more of NOX or ROG (VOC)". This attached list will be updated by the District on an annual basis.
3. Permittee shall keep separate emissions records of the above operation conducted for each stationary source included in the list of "sites with estimated actual emissions of 25 tons/year or more of NOX or ROG (VOC)" during each 12 consecutive calendar month period. Emissions during each 12-month period shall be calculated by summing the emissions from each month included in that period. For each calendar month, monthly emissions for the period ending in that month shall be calculated and each made available to the District upon request.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2002-APP-977570

PERMIT ID
APCD2005-PTO-971846

4. Annual emissions of Volatile Organic Compounds (VOC) from the above operation shall not exceed 25.5 tons in any consecutive 12-month period. This equates to approximately 12,775 gallons of combined materials with a VOC content of 4.0 lb/gal in any consecutive 12-month period.
5. This marine coating and adhesive materials application operation shall be conducted at no closer than 130 feet from the property line.
6. The VOC content, in grams/liter, as applied, less water and less exempt compounds, of the following specialty coatings shall not be exceeded: high temperature coating, 420 and low activation interior coating, 340. These VOC limits apply only to marine coatings with mil spec requirements.
7. Materials containing arsenic, cadmium, hexavalent chromium, copper, lead, manganese, nickel or zinc shall be used by hand application method (as defined in Rule 67.3) only, except:
   -Pro-Line/Pro-Zinc 221 Primer
   -Ameron/Amercoat 138HR Base
   -Ameron/Devgrip 137 Base
   -Ameron/Amercoat 3234
8. Average hourly sprayed usages of the following materials shall not be exceeded: 1.4 gal of Ameron/Amercoat138hr base and 5.2 gal of Ameron/Devgrip 137 base. Average hourly sprayed usage is determined by dividing the daily sprayed usage of each of these materials by the corresponding number of sprayed coating operation hours/day, where coating operation is as defined in Rule 67.3.
9. Annual (calendar year) sprayed usages of the following materials shall not be exceeded: 500 gal of Pro-line/Pro-zinc 221 primer, 167 gal of Ameron/Amercoat 138hr base, 500 gal of Ameron/Devgrip 137 base and 4000 gal of Ameron/Amercoat 3234.
10. Average hourly and annual usages of adhesive materials shall not exceed 0.5 gallon and 936 gallons, respectively. Average hourly usage is determined by dividing the total daily adhesive material usages by the total number of adhesive materials application operating hours/day.
11. Usage records and corresponding application method used shall be maintained at a central location on a daily basis for Ameron/Amercoat 138hr base, Ameron/Devgrip 137 base, and all adhesive materials used and on a monthly basis for all materials used. Records shall be made readily available to the District upon request. Daily records shall at minimum contain the follwing information: type of substrate coated (metal parts, aerospace components etc.), the type of coating applied (basecoat, hardener, thinner, clean-up, etc., including the manufacturer's indentification number), mix ratios, volume of each material used, coating application method used, the number of sprayed coating operation hours for Ameron/Amercoat 138hr base and Ameron/Devgrip 137 base and the number of adhesive materials application operation hours.
12. Permittee shall comply with all other applicable provisions of Rule 67.18.
13. Adhesive materials application associated with this marine coating operation shall comply with all applicable provisions of Rule 67.21, including adhesive material VOC limits, surface preparation and cleanup requirements and application equipment cleanup requirements.
14. Permittee shall not use adhesive materials that contain Toxic Air Contaminants identified in Rule 1200 tables i, ii and iii (revision effective dated 02/13/02), except N-Hexane, Mek and Toluene.
15. Permittee shall comply with all record keeping requirements of Rule 67.21, including, maintaining a current list of all materials used which provides all of the data necessary to evaluate compliance. Daily usage records of each adhesive material used and monthly inventory (dispensing) records for each solvent used as an adhesive bonding agent, or for stripping, surface preparation, or cleaning shall be maintained at a central location for at least three years and shall be made available to the District upon request.
16. The portable marine coating and adhesive materials application operation permittee shall provide weekly or monthly usage and emissions records of hazardous air pollutants (HAPs) including the date the materials are applied, permittee's name, address and phone number to the stationary source at the end of the work week or month to allow for a facility wide emissions determination.

17. The portable marine coating and adhesive materials application operation permittee shall provide weekly or monthly usage and emissions records of hazardous air pollutants (HAPs) including the date the materials are applied, permittee's name, address and phone number to the stationary source at the end of the work week or month to allow for a facility wide emissions determination.
18. Permittee shall keep daily records of the brand, model and corresponding serial numbers of the application equipment used at each stationary source. These records shall be maintained at a central location for at least three years and shall be made readily available to the District upon request.
19. Permittee shall use only the application equipment specified above. Any change in application method will require modification of this Permit to Operate.
20. The Permittee will have available on site pressure gauge(s) in proper operating condition to measure the air cap pressure of coating application equipment. The Permittee shall maintain a permanent air pressure at the air cap in the range of 0.1 to 10 psig. This condition applies only to those operations which claim the use of high volume low pressure (HVLP) application equipment to comply with District Rules.
21. All solvents, materials containing solvents and other materials containing organic compounds shall be stored in closed containers in accordance with Rule 67.17 requirements.
22. Permittee shall maintain current MSDS's or manufacturer's specifications on-site which identify the VOC content, vapor pressure or initial boiling point, as applicable, for all materials containing organic solvents used in the operation described above.
23. Permittee shall not conduct any spray application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd). For the purposes of this condition, spray application means coatings that are applied using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. Spray-applied coatings do not include the following materials or activities: coatings applied from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters) or surface coating application using powder coating, hand-held, non-refillable aerosol containers, or non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electro deposition coating, web coating, coil coating, touch-up markers, or marking pens. (MACT HHHHHH)
24. The permittee shall not use paint stripping solvents that contain methylene chloride (CAS 75-09-2) in paint removal processes. (Rule 1200)
25. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
26. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
27. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2002-APP-977570

PERMIT ID
APCD2005-PTO-971846

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

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Fee Schedules: 1 [27C] Marine Coating - Additional
1 [27U] Adhesive Materials Application Station

BEC: 12224

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Total Volatile Organic Compound (VOC) emissions, in tons per year, from this portable equipment shall be offset in accordance with District Rule 20.4(d)(5)(ii). VOC emissions shall be limited to the total of leased and/or purchased Emission Reduction Credits (ERC) divided by 1.2. Records of ERC currently leased and/or owned by the permittee and a copy of each lease or purchase agreement shall be retained on-site and provided to the District upon request.
2. The above VOC emissions limits apply only when these portable equipment are operated at stationary sources which have actual emissions of more than 25 tons per year of VOCs or have aggregate potentials to emit of more than 50 tons per year of VOCs. Attached is a list of "sites with estimated actual emissions of 25 tons/year or more of NOX or ROG (VOC)". This attached list will be updated by the District on an annual basis.
3. Permittee shall keep separate emissions records of the above operation conducted for each stationary source included in the list of "sites with estimated actual emissions of 25 tons/year or more of NOX or ROG (VOC)" during each 12 consecutive calendar month period. Emissions during each 12-month period shall be calculated by summing the emissions from each month included in that period. For each calendar month, monthly emissions for the period ending in that month shall be calculated and each made available to the District upon request.

4. Annual emissions of Volatile Organic Compounds (VOC) from the above operation shall not exceed 25.5 tons in any consecutive 12-month period. This equates to approximately 12,775 gallons of combined materials with a VOC content of 4.0 lb/gal in any consecutive 12-month period.
5. This marine coating and adhesive materials application operation shall be conducted at no closer than 130 feet from the property line.
6. The VOC content, in grams/liter, as applied, less water and less exempt compounds, of the following specialty coatings shall not be exceeded: high temperature coating, 420 and low activation interior coating, 340. These VOC limits apply only to marine coatings with mil spec requirements.
7. Materials containing arsenic, cadmium, hexavalent chromium, copper, lead, manganese, nickel or zinc shall be used by hand application method (as defined in Rule 67.3) only, except:
   -Pro-Line/Pro-Zinc 221 Primer
   -Ameron/Amercoat 138HR Base
   -Ameron/Devgrip 137 Base
   -Ameron/Amercoat 3234
8. Average hourly sprayed usages of the following materials shall not be exceeded: 1.4 gal of Ameron/Amercoat138hr base and 5.2 gal of Ameron/Devgrip 137 base. Average hourly sprayed usage is determined by dividing the daily sprayed usage of each of these materials by the corresponding number of sprayed coating operation hours/day, where coating operation is as defined in Rule 67.3.
9. Annual (calendar year) sprayed usages of the following materials shall not be exceeded: 500 gal of Pro-line/Pro-zinc 221 primer, 167 gal of Ameron/Amercoat 138hr base, 500 gal of Ameron/Devgrip 137 base and 4000 gal of Ameron/Amercoat 3234.
10. Average hourly and annual usages of adhesive materials shall not exceed 0.5 gallon and 936 gallons, respectively. Average hourly usage is determined by dividing the total daily adhesive material usages by the total number of adhesive materials application operating hours/day.
11. Usage records and corresponding application method used shall be maintained at a central location on a daily basis for Ameron/Amercoat 138hr base, Ameron/Devgrip 137 base, and all adhesive materials used and on a monthly basis for all materials used. Records shall be made readily available to the District upon request. Daily records shall at minimum contain the follwing information: type of substrate coated (metal parts, aerospace components etc.), the type of coating applied (basecoat, hardener, thinner, clean-up, etc., including the manufacturer's indentification number), mix ratios, volume of each material used, coating application method used, the number of sprayed coating operation hours for Ameron/Amercoat 138hr base and Ameron/Devgrip 137 base and the number of adhesive materials application operation hours.
12. Permittee shall comply with all other applicable provisions of Rule 67.18.
13. Adhesive materials application associated with this marine coating operation shall comply with all applicable provisions of Rule 67.21, including adhesive material VOC limits, surface preparation and cleanup requirements and application equipment cleanup requirements.
14. Permittee shall not use adhesive materials that contain Toxic Air Contaminants identified in Rule 1200 tables i, ii and iii (revision effective dated 02/13/02), except N-Hexane, Mek and Toluene.
15. Permittee shall comply with all record keeping requirements of Rule 67.21, including, maintaining a current list of all materials used which provides all of the data necessary to evaluate compliance. Daily usage records of each adhesive material used and monthly inventory (dispensing) records for each solvent used as an adhesive bonding agent, or for stripping, surface preparation, or cleaning shall be maintained at a central location for at least three years and shall be made available to the District upon request.
16. The portable marine coating and adhesive materials application operation permittee shall provide weekly or monthly usage and emissions records of hazardous air pollutants (HAPs) including the date the materials are applied, permittee's name, address and phone number to the stationary source at the end of the work week or month to allow for a facility wide emissions determination.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2002-APP-977570

PERMIT ID
APCD2005-PTO-971846

17. The portable marine coating and adhesive materials application operation permittee shall provide weekly or monthly usage and emissions records of hazardous air pollutants (HAPs) including the date the materials are applied, permittee's name, address and phone number to the stationary source at the end of the work week or month to allow for a facility wide emissions determination.
18. Permittee shall keep daily records of the brand, model and corresponding serial numbers of the application equipment used at each stationary source. These records shall be maintained at a central location for at least three years and shall be made readily available to the District upon request.
19. Permittee shall use only the application equipment specified above. Any change in application method will require modification of this Permit to Operate.
20. The Permittee will have available on site pressure gauge(s) in proper operating condition to measure the air cap pressure of coating application equipment. The Permittee shall maintain a permanent air pressure at the air cap in the range of 0.1 to 10 psig. This condition applies only to those operations which claim the use of high volume low pressure (HVLP) application equipment to comply with District Rules.
21. All solvents, materials containing solvents and other materials containing organic compounds shall be stored in closed containers in accordance with Rule 67.17 requirements.
22. Permittee shall maintain current MSDS's or manufacturer's specifications on-site which identify the VOC content, vapor pressure or initial boiling point, as applicable, for all materials containing organic solvents used in the operation described above.
23. Permittee shall not conduct any spray application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd). For the purposes of this condition, spray application means coatings that are applied using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. Spray-applied coatings do not include the following materials or activities: coatings applied from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters) or surface coating application using powder coating, hand-held, non-refillable aerosol containers, or non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electro deposition coating, web coating, coil coating, touch-up markers, or marking pens. (MACT HHHHHH)
24. The permittee shall not use paint stripping solvents that contain methylene chloride (CAS 75-09-2) in paint removal processes. (Rule 1200)
25. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
26. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
27. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 27 – MARINE COATING OPERATIONS

ID #: 00204 Permit / Registration #: 971846 Date of Inspection: 2/21/14

Facility: BAE Systems, foot of Sampson St, SD 92113 Date of Expiration: 9/14

Representative: Cara Banderas Title: Env Spvsr Phone: 619-557-4209

EQUIPMENT DESCRIPTION

1a. Equipment same as described on permit to operate? YES ☒ Yes ☐ No

1b. If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No

Description of changes: _____

2a. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No

2b. Ownership verified? YES ☒ Yes ☐ No

3. Permit conditions reviewed (current / enforceable)? NO ☐ Yes ☒ No

(If no, complete permit condition change request and describe changes in the comments section)

EQUIPMENT INSPECTION

4. Equipment observed in operation? NO ☐ Yes ☒ No

5. VOC materials stored in closed containers? UTD ☐ Yes ☐ No *Rule 67.17*

If no, indicate size of containers, content and quantity below:

Size of Container	Contents	Quantity

6. Is an oven used to bake marine coatings above 194 °F? _____ ☐ Yes ☒ No

If yes, what is the oven temperature? _____

7. Facility using compliant surface preparation solvents? _____ ☒ Yes ☐ No *Rule 67.18(d)(4)*

a. Mfg. Name / ID#: _____ VOC Content: _____

b. or Boiling Point: _____ or Vapor Pressure: _____

8. Facility using compliant gun cleaning solvent or cleaning method? UTD ☒ Yes ☐ No *Rule 67.18(d)(3)*

State cleaning method used: _____

Gun cleaning solvent: a. Mfg. Name / ID#: _____ VOC Content: _____

b. or Boiling Point: _____ or Vapor Pressure: _____

9. COATINGS / SOLVENTS *Rule 67.18(d)(1), (d)(2)*

Mfg Name / ID#	Coating Category	Mix Ratio	VOC Content as applied	VOC Standard	Compliant with Rule 67.18
P C R					
P C R					
P C R					
P C R					
P C R					
P C R					

10. Does the facility have a control device? _____ ☐ Yes ☐ No ☒ N/A *Rule 67.18(e)*

If yes, state the type of control device: _____

a. What are the specified operating parameters: _____

_____

b. Is the control device operating within the specified parameters? ☐ Yes ☐ No

c. List operating parameters at time of inspection: _____

_____

RECORDKEEPING

11. Facility has a current list of coatings? YES ☒ Yes ☐ No *Rule 67.18(f)(1)*

12. Facility has current MSDS / product data information to substantiate specialty coating categories? YES ☒ Yes ☐ No *Rule 67.18(f)(1)(ii)*

13. Facility keeping daily or monthly usage records of all coatings used? N/A ☐ Yes ☐ No *Rule 67.18(f)(1)(iii)*

14. Facility keeping daily or monthly usage records of surface prep and

cleaning solvents? N/A ☐ Yes ☐ No *Rule 67.18(f)(1)(iii)(C)*

15. Facility keeping monthly usage records of material additions to dip tanks? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(D)*

16. Facility maintaining records of oven temperature? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(B)*

17. Facility keeping daily records of emission control equipment operating parameters? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

18. Facility maintaining inspection and maintenance schedules for the control equipment? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

EMISSION REQUIREMENTS / SOURCE TESTING

19. Daily facility emission limit per the permit to operate? _____

20. Is the facility exceeding the daily emission limit? NO ☐ Yes ☒ No *Rule 21*

If yes, state the number of days the facility exceeded the emission limit: _____

Indicate the facility daily usage for,

a. Coatings: _____

b. Surface Preparation Solvents: _____

c. Cleaning Solvents: _____

21. Is the facility required to be source tested? NO ☐ Yes ☒ No *Rule 21*

If yes, state the source test frequency and the results of the last source test: _____

COMPLIANCE ACTIONS

22. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NTC items below:

23. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NOV items below:

Additional Comments: Portable marine coating permit no longer in use at sites with stationary marine coating permits. Adhesive usage limited to materials that contain 0 VOC.

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 2/27/14

AQIII Initials: _____ Date: _____

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2002-APP-977568

PERMIT ID
APCD2005-PTO-971104

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

MARINE COATING & ADHESIVE MATERIALS APPLICATION OPERATION (PORTABLE, TYPE III): CONDUCTED INSIDE & OUTSIDE MARINE VESSELS, USING (37) WAGNER MDL G-10 AIRLESS, SN'S E-1 THRU E-7, 12, 52, 61, 76, 81, 85, 88, 90, 91, 100 THRU 120; (10) GRACO MDL 236-995HP, SN'S 201 THRU 210; (2) GRACO MASTIC, SN'S 31 & 32; (2) GRACO AIRLESS, SN'S 1 & 2; (25) DEVILBISS MDL JGHV-531 HVLP, SN'S 4, 8, 11, 19, 20, 22, 23, 24, 28, 29, 50 THRU 64 AND (10) ANEST IWATAMDL LPH-200 HVLP, SN'S 100 THRU 109 SPRAY GUNS, BRUSHES, ROLLERS, TROWELS, AND CAULKING GUNS TO APPLY BACT-COMPLIANT MARINE COATINGS & SOLVENTS AND RULE 67.21 COMPLIANT ADHESIVE MATERIALS.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [49A] Non-Operational Status Equipment
1 [27C] Marine Coating - Additional
1 [27U] Adhesive Materials Application Station

BEC: APCD2010-CON-000132

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. This equipment shall not be operated at any time except where limited use of this equipment is allowed without a permit to operate under a Rule 11 exemption. This limited usage shall be subject to all other applicable prohibitory rules. All records and data necessary to substantiate this Rule 11 exemption shall be maintained on site for a minimum of three calendar years and made available to the District upon request.
2. If the previously applicable permit to operate (prior to inactivation) required source testing, the equipment shall be source tested within 60 calendar days of permit reactivation. This source testing is required to demonstrate compliance with emission standards contained in the previously applicable permit to operate, it is the responsibility of the permittee to schedule the source test with the District. The source test shall be performed or witnessed by the District.
3. The permittee shall submit an application and obtain written approval from the District prior to operating the equipment under inactive status. In the event new or additional requirements are applicable to this equipment upon reactivation, the permittee shall submit an application and additional information with corresponding fees to demonstrate how the permittee will comply with the new or additional requirements and to add corresponding permit conditions.

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10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2002-APP-977568

PERMIT ID
APCD2005-PTO-971104

4. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
5. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
6. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 27 – MARINE COATING OPERATIONS

ID #: 00204 Permit / Registration #: 971104 Date of Inspection: 2/21/14

Facility: BAE Systems, foot of Sampson St, SD 92113 Date of Expiration: 9/14

Representative: Cara Banderas Title: Env Spvsr Phone: 619-557-4209

EQUIPMENT DESCRIPTION

1a. Equipment same as described on permit to operate? YES ☒ Yes ☐ No

1b. If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No

Description of changes: _____

2a. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No

2b. Ownership verified? YES ☒ Yes ☐ No

3. Permit conditions reviewed (current / enforceable)? YES ☒ Yes ☐ No

(If no, complete permit condition change request and describe changes in the comments section)

EQUIPMENT INSPECTION

4. Equipment observed in operation? NO ☐ Yes ☒ No

5. VOC materials stored in closed containers? UTD ☐ Yes ☐ No *Rule 67.17*

If no, indicate size of containers, content and quantity below:

Size of Container	Contents	Quantity

6. Is an oven used to bake marine coatings above 194 °F? _____ ☐ Yes ☒ No

If yes, what is the oven temperature? _____

7. Facility using compliant surface preparation solvents? _____ ☒ Yes ☐ No *Rule 67.18(d)(4)*

a. Mfg. Name / ID#: _____ VOC Content: _____

b. or Boiling Point: _____ or Vapor Pressure: _____

8. Facility using compliant gun cleaning solvent or cleaning method? UTD ☒ Yes ☐ No *Rule 67.18(d)(3)*

State cleaning method used: _____

Gun cleaning solvent: a. Mfg. Name / ID#: _____ VOC Content: _____

b. or Boiling Point: _____ or Vapor Pressure: _____

9. COATINGS / SOLVENTS *Rule 67.18(d)(1), (d)(2)*

Mfg Name / ID#	Coating Category	Mix Ratio	VOC Content as applied	VOC Standard	Compliant with Rule 67.18
P C R					
P C R					
P C R					
P C R					
P C R					
P C R					

10. Does the facility have a control device? _____ ☐ Yes ☐ No ☒ N/A *Rule 67.18(e)*

If yes, state the type of control device: _____

a. What are the specified operating parameters: _____

_____

b. Is the control device operating within the specified parameters? ☐ Yes ☐ No

c. List operating parameters at time of inspection: _____

_____

RECORDKEEPING

11. Facility has a current list of coatings? YES ☒ Yes ☐ No *Rule 67.18(f)(1)*

12. Facility has current MSDS / product data information to substantiate specialty coating categories? YES ☒ Yes ☐ No *Rule 67.18(f)(1)(ii)*

13. Facility keeping daily or monthly usage records of all coatings used? N/A ☐ Yes ☐ No *Rule 67.18(f)(1)(iii)*

14. Facility keeping daily or monthly usage records of surface prep and

cleaning solvents? N/A ☐ Yes ☐ No *Rule 67.18(f)(1)(iii)(C)*

15. Facility keeping monthly usage records of material additions to dip tanks? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(D)*

16. Facility maintaining records of oven temperature? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(B)*

17. Facility keeping daily records of emission control equipment operating parameters? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

18. Facility maintaining inspection and maintenance schedules for the control equipment? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

EMISSION REQUIREMENTS / SOURCE TESTING

19. Daily facility emission limit per the permit to operate? _____

20. Is the facility exceeding the daily emission limit? NO ☐ Yes ☒ No *Rule 21*

If yes, state the number of days the facility exceeded the emission limit: _____

Indicate the facility daily usage for,

a. Coatings: _____

b. Surface Preparation Solvents: _____

c. Cleaning Solvents: _____

21. Is the facility required to be source tested? NO ☐ Yes ☒ No *Rule 21*

If yes, state the source test frequency and the results of the last source test: _____

COMPLIANCE ACTIONS

22. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NTC items below:

23. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NOV items below:

Additional Comments: 49A Inactive status

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 2/27/14

AQIII Initials: _____ Date: _____

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
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Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2012-APP-002157

PERMIT ID
APCD2005-PTO-971495

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
Foot of Sampson
San Diego CA, 92113

EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

This permit is not valid until required fees have been paid.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT DESCRIPTION

Diesel Engine Powering a 115 ton Link Belt model TG 1900 Gantry Crane: Cummins; model QSX15-C; serial number TBD; Engine Family CCEXL15.0AAK; interim tier 4 certified; 450 bhp rated; turbocharged with charge air cooler and EGR; equipped with Cummins Diesel Oxidation Catalyst and Periodic Trap Oxidizer (DPF)

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34E] Dredging or Crane Engines

BEC: APCD2012-CON-000667

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Fuel consumption of this engine shall not exceed 37,000 gallons in any consecutive 12 month period.
2. This engine shall use only carb diesel fuel. (Rule 69.4.1, 17 CCR 93116)
3. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
4. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)
5. A non-resettable engine hour meter and/or non-resettable totalizing fuel meter shall be installed on this engine, maintained in good working order and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within in 10 calendar days. The written notifications shall include the following information:
   a. old meter's reading.
   b. replacement meter's manufacturer name, model and serial number if available and current reading on replacement meter; and
   c. copy of receipt of new meter or of installation work order.
   A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 69.4.1)

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Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2012-APP-002157

PERMIT ID
APCD2005-PTO-971495

6. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. The periodic maintenance shall be conducted at least once every 4000 hours of operation, or every six months, whichever occurs first. (Rule 69.4.1)
7. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
   a. documentation shall be maintained identifying the fuel as carb diesel.
   b. manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company; and
   c. records of annual engine maintenance including date the maintenance was performed.
   These records shall be made available to the Air Pollution Control District upon request. (Rule 69.4.1)(17 CCR 93116)
8. The owner or operator of the engine shall maintain an operating log that contains the following records: Monthly fuel consumption (gallons) and twelve month rolling total fuel consumption (gallons) as determined by fuel purchase or delivery receipts. This log shall be made available to the Air Pollution Control District upon request. (Rule 20.2)
9. All operational and maintenance logs and fuel use and type and purchase records required by this permit shall be kept for a minimum of 36 months from their date of creation unless otherwise indicated by the conditions of this permit. The records shall be maintained onsite for a minimum of 24 months from their date of creation. Records for the last 24 months of operations shall be made available to the Air Pollution Control District upon request. Records for operation for the last 25 to 36 months shall be made available to the Air Pollution Control District within 5 working days of request.
10. This engine, as part of the fleet that it is included in, shall comply with the fleet averaging standards of 17CCR 93116. A copy of the most recent compliance statement submitted to the California Air Resources Board under 17CCR 93116 shall be provided to District personnel upon request. (17CCR 93116)
11. The responsible official shall submit compliance statements as required by 17CCR 93116. These compliance statements are due to the California Air Resources Board by March 1, 2013, March 1, 2017 and March 1, 2020.
12. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
13. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
14. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)

SAN DIEGO AIR POLLUTION CONTROL DISTRICT

COMPLIANCE DIVISION
INSPECTION (2nd-QUARTER) CHECKLIST
FEE CODE 34ABDG –STATIONARY INTERNAL COMBUSTION ENGINES

ID#: **00204** Permit #: **971495** Date of Inspection: **Fri-21-Feb-2014**

Facility: **BAE Systems, foot of Sampson St, SD 92113** Expiration Date: **September 2014**

Representative: **Cara Bandera** Title: **Env. Supervisor.** Phone: **619-557-4209**

1. Equipment manufacturer, model and serial numbers match? YES, If no, explain: _____
2. Current permit /available? YES Ownership verified? YES
3. Fuel Used: CARB Diesel; Source: Soco Grp
4. Fuel Usage Limits: None
5. Liquid Fuel Sample Taken? ☐ Yes ☒ No ☐ N/A
   Sulfur content: No Sample Taken %
6. Current Hourly Meter Reading: 2,258.6, Limits: 37,000 gal/12month
7. Log book maintained? ☒ Yes ☐ No ☐ N/A
8. Rule 50 Visible Emissions Compliance? ☒ Yes ☐ No ☐ N/A
   Opacity: 0 % (See V/E Evaluation Sheet)
9. Manual of recommended maintenance procedures as provided by the engine manufacturer, or other maintenance procedures as approved in writing by the Air Pollution Control Officer maintained onsite? YES (Required after November 15, 2002)
10. Periodic maintenance of the engine and control equipment (if applicable) as recommended by the engine manufacturer or as specified by any other maintenance procedures approved in writing by the Air Pollution Control Officer being done at least once each calendar year? YES (required after November 15, 2002) Describe: Monthly, quarterly, annual inspections.
11. Source Test History? N/A
12. Compliance Status with Rule 69.4.1, Describe: Compliant
13. Operating i.c.w. permit conditions? YES, Describe: _____
14. Notice to Comply issued? NO, NtC #, Rules and Description: _____
15. Notice of Violation issued? NO, NoV #, Rules and Description: _____
16. Review of permit conditions[R] No Changes Required - PO change form not submitted

Remarks: Max fuel usage 919 gallons (August 2013) @ max ~11,000 gal/12 months.

Inspector: Miguel Reynoso Jauregui MRJ Date: 2/27/14

AQIII Initials:_____ Date:_____

[R] H&S 42301(e)

APCD/rev 05-2003

Additional Comments: Portable marine coating permit no longer in use at sites with stationary marine coating permits. Adhesive usage limited to materials that contain 0 VOC.

Inspectors signature: Miguel Reynoso Jauregui MRJ Date of Report: 2/27/14

AQIII Initials: _____ Date: _____

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
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www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2002-APP-977569

PERMIT ID
APCD2005-PTO-971845

BAE Systems SDSR
Director of Environmental Services
2205 E Belt
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EQUIPMENT ADDRESS
BAE Systems SDSR
Director of Environmental
2205 E Belt St
Foot of Sampson St
San Diego CA 92113

PERMIT TO OPERATE

EXPIRES: September 30, 2014

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EQUIPMENT DESCRIPTION

MARINE COATING & ADHESIVE MATERIALS APPLICATION OPERATION (PORTABLE, TYPE III): CONDUCTED INSIDE & OUTSIDE MARINE VESSELS, USING (37) WAGNER MDL G-10 AIRLESS, SN'S E-1 THRU E-7, 12, 52, 61, 76, 81, 85, 88, 90, 91, 100 THRU 120; (10) GRACO MDL 236-995HP, SN'S 201 THRU 210; (2) GRACO MASTIC, SN'S 31 & 32; (2) GRACO AIRLESS, SN'S 1 & 2; (25) DEVILBISS MDL JGHV-531 HVLP, SN'S 4, 8 11, 19, 20, 22, 23, 24, 28, 29, 50 THRU 64 AND (10) ANEST IWATAMDL LPH-200 HVLP, SN'S 100 THRU 109 SPRAY GUNS, BRUSHES, ROLLERS, TROWELS, AND CAULKING GUNS TO APPLY BACT-COMPLIANT MARINE COATINGS & SOLVENTS AND RULE 67.21 COMPLIANT ADHESIVE MATERIALS.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [27C] Marine Coating - Additional
1 [27U] Adhesive Materials Application Station

BEC: 12224

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

1. Total Volatile Organic Compound (VOC) emissions, in tons per year, from this portable equipment shall be offset in accordance with District Rule 20.4(d)(5)(ii). VOC emissions shall be limited to the total of leased and/or purchased Emission Reduction Credits (ERC) divided by 1.2. Records of ERC currently leased and/or owned by the permittee and a copy of each lease or purchase agreement shall be retained on-site and provided to the District upon request.
2. The above VOC emissions limits apply only when these portable equipment are operated at stationary sources which have actual emissions of more than 25 tons per year of VOCs or have aggregate potentials to emit of more than 50 tons per year of VOCs. Attached is a list of "sites with estimated actual emissions of 25 tons/year or more of NOX or ROG (VOC)". This attached list will be updated by the District on an annual basis.
3. Permittee shall keep separate emissions records of the above operation conducted for each stationary source included in the list of "sites with estimated actual emissions of 25 tons/year or more of NOX or ROG (VOC)" during each 12 consecutive calendar month period. Emissions during each 12-month period shall be calculated by summing the emissions from each month included in that period. For each calendar month, monthly emissions for the period ending in that month shall be calculated and each made available to the District upon request.

COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
10124 OLD GROVE ROAD, SAN DIEGO, CA 92131
PHONE (858) 586-2600 FAX (858) 586-2601
www.sdapcd.org

Sectors: 5, P
Site ID: APCD1980-SITE-00204
App ID: APCD2002-APP-977569

PERMIT ID
APCD2005-PTO-971845

4. Annual emissions of Volatile Organic Compounds (VOC) from the above operation shall not exceed 25.5 tons in any consecutive 12-month period. This equates to approximately 12,775 gallons of combined materials with a VOC content of 4.0 lb/gal in any consecutive 12-month period.
5. This marine coating and adhesive materials application operation shall be conducted at no closer than 130 feet from the property line.
6. The VOC content, in grams/liter, as applied, less water and less exempt compounds, of the following specialty coatings shall not be exceeded: high temperature coating, 420 and low activation interior coating, 340. These VOC limits apply only to marine coatings with mil spec requirements.
7. Materials containing arsenic, cadmium, hexavalent chromium, copper, lead, manganese, nickel or zinc shall be used by hand application method (as defined in Rule 67.3) only, except:
   -Pro-Line/Pro-Zinc 221 Primer
   -Ameron/Amercoat 138HR Base
   -Ameron/Devgrip 137 Base
   -Ameron/Amercoat 3234
8. Average hourly sprayed usages of the following materials shall not be exceeded: 1.4 gal of Ameron/Amercoat138hr base and 5.2 gal of Ameron/Devgrip 137 base. Average hourly sprayed usage is determined by dividing the daily sprayed usage of each of these materials by the corresponding number of sprayed coating operation hours/day, where coating operation is as defined in Rule 67.3.
9. Annual (calendar year) sprayed usages of the following materials shall not be exceeded: 500 gal of Pro-line/Pro-zinc 221 primer, 167 gal of Ameron/Amercoat 138hr base, 500 gal of Ameron/Devgrip 137 base and 4000 gal of Ameron/Amercoat 3234.
10. Average hourly and annual usages of adhesive materials shall not exceed 0.5 gallon and 936 gallons, respectively. Average hourly usage is determined by dividing the total daily adhesive material usages by the total number of adhesive materials application operating hours/day.
11. Usage records and corresponding application method used shall be maintained at a central location on a daily basis for Ameron/Amercoat 138hr base, Ameron/Devgrip 137 base, and all adhesive materials used and on a monthly basis for all materials used. Records shall be made readily available to the District upon request. Daily records shall at minimum contain the follwing information: type of substrate coated (metal parts, aerospace components etc.), the type of coating applied (basecoat, hardener, thinner, clean-up, etc., including the manufacturer's indentification number), mix ratios, volume of each material used, coating application method used, the number of sprayed coating operation hours for Ameron/Amercoat 138hr base and Ameron/Devgrip 137 base and the number of adhesive materials application operation hours.
12. Permittee shall comply with all other applicable provisions of Rule 67.18.
13. Adhesive materials application associated with this marine coating operation shall comply with all applicable provisions of Rule 67.21, including adhesive material VOC limits, surface preparation and cleanup requirements and application equipment cleanup requirements.
14. Permittee shall not use adhesive materials that contain Toxic Air Contaminants identified in Rule 1200 tables i, ii and iii (revision effective dated 02/13/02), except N-Hexane, Mek and Toluene.
15. Permittee shall comply with all record keeping requirements of Rule 67.21, including, maintaining a current list of all materials used which provides all of the data necessary to evaluate compliance. Daily usage records of each adhesive material used and monthly inventory (dispensing) records for each solvent used as an adhesive bonding agent, or for stripping, surface preparation, or cleaning shall be maintained at a central location for at least three years and shall be made available to the District upon request.
16. The portable marine coating and adhesive materials application operation permittee shall provide weekly or monthly usage and emissions records of hazardous air pollutants (HAPs) including the date the materials are applied, permittee's name, address and phone number to the stationary source at the end of the work week or month to allow for a facility wide emissions determination.

17. The portable marine coating and adhesive materials application operation permittee shall provide weekly or monthly usage and emissions records of hazardous air pollutants (HAPs) including the date the materials are applied, permittee's name, address and phone number to the stationary source at the end of the work week or month to allow for a facility wide emissions determination.
18. Permittee shall keep daily records of the brand, model and corresponding serial numbers of the application equipment used at each stationary source. These records shall be maintained at a central location for at least three years and shall be made readily available to the District upon request.
19. Permittee shall use only the application equipment specified above. Any change in application method will require modification of this Permit to Operate.
20. The Permittee will have available on site pressure gauge(s) in proper operating condition to measure the air cap pressure of coating application equipment. The Permittee shall maintain a permanent air pressure at the air cap in the range of 0.1 to 10 psig. This condition applies only to those operations which claim the use of high volume low pressure (HVLP) application equipment to comply with District Rules.
21. All solvents, materials containing solvents and other materials containing organic compounds shall be stored in closed containers in accordance with Rule 67.17 requirements.
22. Permittee shall maintain current MSDS's or manufacturer's specifications on-site which identify the VOC content, vapor pressure or initial boiling point, as applicable, for all materials containing organic solvents used in the operation described above.
23. Permittee shall not conduct any spray application of coatings containing compounds of chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd). For the purposes of this condition, spray application means coatings that are applied using a hand-held device that creates an atomized mist of coating and deposits the coating on a substrate. Spray-applied coatings do not include the following materials or activities: coatings applied from a hand-held device with a paint cup capacity that is equal to or less than 3.0 fluid ounces (89 cubic centimeters) or surface coating application using powder coating, hand-held, non-refillable aerosol containers, or non-atomizing application technology, including, but not limited to, paint brushes, rollers, hand wiping, flow coating, dip coating, electro deposition coating, web coating, coil coating, touch-up markers, or marking pens. (MACT HHHHHH)
24. All chemical strippers that contain methylene chloride (MeCl CAS 75-09-2) shall be stored in closed containers. (MACT HHHHHH)
25. Materials containing arsenic, copper and zinc shall be used by hand application method (as defined in Rule 67.3) only, except:
    -Pro-Line/Pro-Zinc 221 Primer
    -Ameron/Amercoat 138HR Base
    -Ameron/Devgrip 137 Base
    -Ameron/Amercoat 3234
26. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.
27. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)
27. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.

SAN DIEGO AIR POLLUTION CONTROL DISTRICT
COMPLIANCE DIVISION
INSPECTION CHECKLIST
FEE CODE 27 – MARINE COATING OPERATIONS

ID #: 00204 Permit / Registration #: 971845 Date of Inspection: 2/21/14

Facility: BAE Systems, foot of Sampson St, SD 92113 Date of Expiration: 9/14

Representative: Cara Banderas Title: Env Spvsr Phone: 619-557-4209

EQUIPMENT DESCRIPTION

1a. Equipment same as described on permit to operate? YES ☒ Yes ☐ No

1b. If no, are changes i.c.w. Rule(s) 10(a) / 10(b)? N/A ☐ Yes ☐ No

Description of changes: _____

2a. Current permit posted / available per Rule 10(c)? YES ☒ Yes ☐ No

2b. Ownership verified? YES ☒ Yes ☐ No

3. Permit conditions reviewed (current / enforceable)? NO ☐ Yes ☒ No

(If no, complete permit condition change request and describe changes in the comments section)

EQUIPMENT INSPECTION

4. Equipment observed in operation? NO ☐ Yes ☒ No

5. VOC materials stored in closed containers? UTD ☐ Yes ☐ No *Rule 67.17*

If no, indicate size of containers, content and quantity below:

Size of Container	Contents	Quantity

6. Is an oven used to bake marine coatings above 194 °F? _____ ☐ Yes ☒ No

If yes, what is the oven temperature? _____

7. Facility using compliant surface preparation solvents? _____ ☒ Yes ☐ No *Rule 67.18(d)(4)*

a. Mfg. Name / ID#: _____ VOC Content: _____

b. or Boiling Point: _____ or Vapor Pressure: _____

8. Facility using compliant gun cleaning solvent or cleaning method? UTD ☒ Yes ☐ No *Rule 67.18(d)(3)*

State cleaning method used: _____

Gun cleaning solvent: a. Mfg. Name / ID#: _____ VOC Content: _____

b. or Boiling Point: _____ or Vapor Pressure: _____

9. COATINGS / SOLVENTS *Rule 67.18(d)(1), (d)(2)*

Mfg Name / ID#	Coating Category	Mix Ratio	VOC Content as applied	VOC Standard	Compliant with Rule 67.18
P C R					
P C R					
P C R					
P C R					
P C R					
P C R					

10. Does the facility have a control device? _____ ☐ Yes ☐ No ☒ N/A *Rule 67.18(e)*

If yes, state the type of control device: _____

a. What are the specified operating parameters: _____

_____

b. Is the control device operating within the specified parameters? ☐ Yes ☐ No

c. List operating parameters at time of inspection: _____

_____

RECORDKEEPING

11. Facility has a current list of coatings? YES ☒ Yes ☐ No *Rule 67.18(f)(1)*

12. Facility has current MSDS / product data information to substantiate specialty coating categories? YES ☒ Yes ☐ No *Rule 67.18(f)(1)(ii)*

13. Facility keeping daily or monthly usage records of all coatings used? N/A ☐ Yes ☐ No *Rule 67.18(f)(1)(iii)*

14. Facility keeping daily or monthly usage records of surface prep and

cleaning solvents? N/A ☐ Yes ☐ No *Rule 67.18(f)(1)(iii)(C)*

15. Facility keeping monthly usage records of material additions to dip tanks? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(D)*

16. Facility maintaining records of oven temperature? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(1)(iii)(B)*

17. Facility keeping daily records of emission control equipment operating parameters? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

18. Facility maintaining inspection and maintenance schedules for the control equipment? N/A ☐ Yes ☐ No ☒ N/A *Rule 67.18(f)(2)(iii)*

EMISSION REQUIREMENTS / SOURCE TESTING

19. Daily facility emission limit per the permit to operate? _____

20. Is the facility exceeding the daily emission limit? NO ☐ Yes ☒ No *Rule 21*

If yes, state the number of days the facility exceeded the emission limit: _____

Indicate the facility daily usage for,

a. Coatings: _____

b. Surface Preparation Solvents: _____

c. Cleaning Solvents: _____

21. Is the facility required to be source tested? NO ☐ Yes ☒ No *Rule 21*

If yes, state the source test frequency and the results of the last source test: _____

COMPLIANCE ACTIONS

22. Notice to Comply Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NTC items below:

23. Notice of Violation Issued? NO ☐ Yes ☒ No Document No. _____

Rules: _____

List NOV items below:

CITY OF SAN DIEGO FIRE DEPARTMENT RECORDS

THE CITY OF SAN DIEGO

July 28, 2014

Ninyo & Moore
Attn: Adrian Olivares
5710 Ruffin Road
San Diego, CA 92123

Dear Mr. Adrian Olivares:

This is in response to your records search request.

Inspection reports were found on **2205 East Belt Street, *San Diego, CA 92113***

No inspection reports were found on address below:

- **400 East Belt Street, San Diego, CA 92113**

For information regarding current chemical inventories, please contact:

County of San Diego
Department of Environmental Health
5500 Overland Avenue, San Diego, CA 92123
858-505-6700 or 800-253-9933

If you have any questions, please contact me at (619) 533-4411.

Sincerely,

Ramon Po
City of San Diego
Fire-Rescue Department
rpo@sandiego.gov

City of San Diego Fire Rescue Department
1010 Second Ave., Suite 400, San Diego, California
92101
(619) 533-4300
www.sandiego.gov/fireandems

MOBIL FUELING SITE PERMIT, INSPECTION Assigned To White, Thomas on 7/15/2011

Start Date: 7/15/2011 12:00:00AM

Finish Date: 7/15/2011 12:00:00AM

Notice

Notice of Fire and Safety Hazards You are hereby notified that an inspection of your premises has disclosed the following fire safety hazards and/or violations of the provisions of appropriate local or state codes.

Order to Comply As such conditions are contrary to law you are hereby required to correct these conditions immediately upon receipt of this notice. An inspection to determine whether you have complied will be conducted on or before the next inspection date. Failure to comply with the foregoing order before the date of the next inspection may subject you to further enforcement action and penalties as provided by law.

Potential Enforcement Consequences for Failure to Timely Comply with this Notice Misdemeanor criminal prosecution (maximum fine of $1,000 per day for each violation plus six months in jail), civil injunction, administrative abatement, revocation of permits, recordation of Notice of Violation, civil penalties (maximum of $2,500 per day for each violation).

Occupancy ID: 98001946
Address: 2205 Belt ST
Business Name: BAE Systems SDSR
City/State/Zip: SAN DIEGO, CA 92113

Occupancy Use: -
Property Uses: -

Code Section: NOTE

NOTE

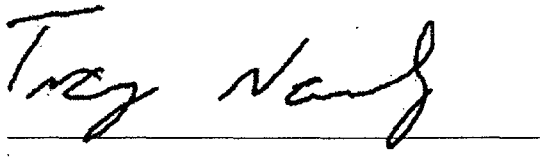
07/15/2011

FINAL MOBILE FUELING, PICKUP TRUCK WITH TWO TANKS 110 gal. / 97 gal. BOTH DIESEL. TWO FIRE EXTINGUISHERS, GROUND CABLE, NO SMOKING, DOT 1993 PLACARD POSTED. ANNUAL RENEWAL REQUIRED 7/15/2012. SIGNED BY TRACY NEWBY

Occupancy ID:	98001946
Address:	2205 Belt ST
Business Name:	BAE Systems SDSR
City/State/Zip:	SAN DIEGO, CA 92113
Occupancy Use:	-
Property Uses:	-

Recipient Signature

Recipient:



INSPECTOR,Thomas White

2012

CITY OF SAN DIEGO

FIRE & LIFE SAFETY SERVICES

1010 SECOND AVENUE, SUITE #300
SAN DIEGO, CA 92101
PHONE: 533-4477 / 533-4449

FIMS FILE #: 12002-168
PERMIT/APPL. NO.: TA-130052
RECEIPT # 96848
DATE RECEIVED 9-10-12

Hazardous Material Permit Application (Fire Dept.) CK#: 3162

SITE ADDRESS

NAME (OR NAME OF BUSINESS): BAE Systems San Diego Ship Repair
ADDRESS (NUMBER) (STREET): 2205 East Belt St
CITY: San Diego | ZIP: 92113 | TELEPHONE NO.: 619-238-1000

CONTRACTOR

NAME (IF NOT OWNER): Angus Asphalt, Inc.
MAILING ADDRESS (NUMBER) (STREET): PO Box 711539
CITY: Santee | ZIP: 92072 | TELEPHONE NO.: 619-562-8200

OWNER

NAME (IF NOT OWNER): BAE Systems San Diego Ship Repair
MAILING ADDRESS (NUMBER) (STREET): PO Box 13308
CITY: San Diego | ZIP: 92113 | TELEPHONE NO.: 619-238-1000

PROVIDE CONTRACTOR LICENSE: 523300
SIGNATURE (OWNER OR AGENT) REQUIRED: [signature] | DATE SIGNED: 8/23/2012
CELLULAR PHONE NUMBER: 619-921-8201 | FAX NUMBER:

COMPENSATION/LIABILITY INSURANCE:
(OF CONTRACTOR OR OWNER) PROOF REQUIRED FOR EACH APPLICATION

NO. OF TANKS	WORK PERFORMED: NEW, REMOVED, ETC.	TANK CAPACITY GALLONS (Pressurized Gas Cylinders in cu. ft.)	TYPE OF HAZARDOUS MATERIAL STORED OR USED	TYPE OF STORAGE: ABOVE GROUND, BELOW GROUND	TYPE OF SUPPLY: PUMP, PRESSURE, INTERNAL PRESSURE OR GRAVITY	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE
#2 1-30-13 1	REMOVAL	12,000	DIESEL	BELOW	PRESSURE	750'	>100'
#1 1-16-13 1	REMOVAL	12,000	GASOLINE	BELOW	PRESSURE	750'	>100'

OTHER HAZARDOUS MATERIALS:
SOIL REMEDIATION:

REPIPE:

MEDICAL GAS / COMPRESSED GAS SYSTEM:

COMMENTS:
#1ST UST Removed - 1-16-13 By DFM Steve Carroll - AT# 5538 - TRANSPORTED TO Pacific Steel Recycling

FIRE DEPARTMENT USE ONLY

DATE	INSPECTOR'S NAME	COMMENTS
		OPERATIONAL Permit — Removal - 2 - USTs (Gasoline & Diesel)
1-30-13	Williamson	Removal of UST's - Triple Rinsed By: Action Cleaning Corp
		LEL 0% - @ 20% - Dry Ice - 180's
		Transported to: Pacific Steel Recycling

1. White Copy – Permit
2. Canary Copy – Office File (HMM)
3. Pink Copy – Records
4. Goldenrod Copy – Permittee's/Receipt

Clear Entire Form

APPLICATION APPROVED: [signature] DEPUTY FIRE MARSHAL
DATE 1-30-2013

FPB-365 (Rev. 11-00) *This information is available in alternative formats upon request.*

2006

The City of San Diego Fire and Life Safety Services
1010 Second Ave., Suite 400 • San Diego, California 92101

Application for Single Event Permit

NOTE: *This application is not a valid permit until signed by a Fire Department representative.*

PLEASE PRINT WITH BALLPOINT PEN OR TYPE.

OFFICE USE ONLY

FILE ID 98 001946 SEQ 008 PERMIT NBR TA 100006
MANAGER HAZMAT TYPE PRT Inspector TS P 6603
Last Visit 07/07/09

Application Date	Permit Type	Received Date	Time	Issue Date
07/07/09	TA	07/07/09	09:00	

BAE SYSTEMS SDSR
APPLICANT Name

BAE SYSTEMS SDSR
Business Name

2205 E BELT STREET
Address

Address (cont.)

SAN DIEGO CA
City and State

92113
Zip Code

(619) 238-1000
Business Phone

DAVID CASE
CONTRACTOR Name

Business Name

Address

Address (cont.)

City and State

Zip Code

(619) 571-1107
Business Phone

2205 BELT ST
JOBSITE Street Number / Fraction / Pre-Dir / Street Name / Post-Dir / Suffix / Unit

92113
Zip Code

Sub Occupancy

760 023 11 00
Parcel Number

Max Occupancy

30 LPG AG TANKS
Location

(619) 571-1107
Jobsite Phone

OFFICE USE ONLY

District Thomas Brothers 65 E4 NW FD Map 1525 A 6

EVENT From Date Time

EVENT To Date Time

Bond Required (Y/N) Consecutive Days (Y/N)

Weekend / Holiday (Y/N) After Business (Y/N) Standbys

COMPENSATION / LIABILITY INSURANCE ON FILE WITH CITY

Dated	Insurance Agency	Amount	Policy Number
/ /			

LPG TANKS & SYSTEMS
400-DISPENSING
FINAL

OFFICE USE ONLY

INSPECTION Due Date 07/27/10 Next Inspection Date / /

ACTIVITY	Date	Activity Code	Time	District	Shift	Inspector
	7/14/09	18F	3:00	TS	P	6603

WHITE — OWNER/OCCUPANT COPY
CANARY — INSPECTOR COPY
PINK — FILE COPY

6373 PAGE 2204

The City of San Diego Fire and Life Safety Services
1010 Second Ave., Suite 400 • San Diego, California 92101

Application for Single Event Permit *(Continued)*

FOR OFFICE USE ONLY

FILE ID 98 003945 SEQ 000 PERMIT NBR TA 100006
MANAGER HAZMAT TYPE PNT Inspector TS P 6603
2205 BELT ST
JOBSITE Street Number / Fraction / Pre-Dir / Street Name / Post-Dir / Suffix / Unit

IF THIS IS A FIREWORKS PERMIT, COMPLETE THE FOLLOWING:

	Operator Name	License
1)		
2)		
3)		

Public Display License	Number Shells	Maximum Size Shell	Number Salutes

IF THIS IS A TANK PERMIT, COMPLETE THE FOLLOWING

SEQ	I/R	Capacity (Gallons)	Liquid	AG/UG	Supply Source	Distance to Building	Distance to Property Line
001	I	400	LPG 30-EACH	AG	PRESSURE	1	65

I/R: I — Tank Installation; R — Tank Removal **AG/UG:** AG — Above Ground Tank; UG — Underground Tank

PURPOSE AND SQUARE FEET OF TENT/CANOPY (ATTACH SKETCH)

COMMENTS / ADDITIONAL INFORMATION OR REQUIREMENTS ALL TANKS AND SYSTEMS CHECKED VERIFIED / 400 GAL - DISPENSING - ESO - AVAILABLE

I understand that the applicable portions of the terms, conditions, and stipulations on the reverse of this document are considered to be an integral part of this permit.

David V Case — 7-14-09
Applicant Signature — Date

If Model Rocket Permit, Applicant Date of Birth: _____

Subject to terms, conditions, and stipulations on the reverse of this document, this permit is hereby approved.

Paul W Ullman — 7-14-09
Fire Dept Representative Signature — Date

City Manager Representative Signature — Date

63732 PAGE 2205

3 permits at $957 each

CITY OF SAN DIEGO
FIRE-RESCUE DEPARTMENT
1010 SECOND AVENUE, SUITE #300
SAN DIEGO, CA 92101
PHONE: (619) 533-4477 / (619) 533-4449

18P

FIMS FILE # 9800196 SQ # 003
PERMIT# TA 100006
RECEIPT # 07.0070558
DATE RECEIVED 7.7.09
CK #: 685680 $2871.00

Hazardous Material Permit Application (Fire Dept.)

SITE ADDRESS			
NAME (OR NAME OF BUSINESS)	BAE Systems SDSR		
ADDRESS (NUMBER)	9905 E BELT (STREET)	ST	
CITY	SAN DIEGO	ZIP 92113	TELEPHONE NO 619-238-1000

CONTRACTOR INFORMATION			
NAME (IF NOT OWNER)	IN HOUSE		
MAILING ADDRESS (NUMBER)	(STREET)		
CITY	ZIP	TELEPHONE NO	

OWNER			
NAME (IF NOT OWNER)	BAE Systems SDSR		
MAILING ADDRESS (NUMBER)	9905 E BELT (STREET)	ST	
CITY	SAN DIEGO	ZIP 92113	TELEPHONE NO 619-238-100

CONTRACTOR INFORMATION		
PROVIDE CONTRACTOR LICENSE		
SIGNATURE (OWNER OR AGENT) REQUIRED	David W Case	DATE SIGNED 7/7/09
PRINT NAME	DAVID W CASE	
PHONE NUMBER	619-571-1107	FAX NUMBER

COMPENSATION/LIABILITY INSURANCE: (OF CONTRACTOR OR OWNER) PROOF REQUIRED FOR EACH APPLICATION

NO. OF TANKS	WORK PERFORMED NEW, REMOVED ETC.	TANK CAPACITY GALLONS (Pressurized Gas / Cylinders in cu. ft.)	TYPE OF HAZARDOUS MATERIAL STORED OR USED	TYPE OF STORAGE ABOVE GROUND, BELOW GROUND	TYPE OF SUPPLY PUMP, PRESSURE, INTERNAL PRESSURE OR GRAVITY	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE
1	REFUELING	400 GAL	PROPANE	ABOVE GROUND	PUMP	10'	130'
10	REFUELING	5 GAL	PROPANE	ABOVE GROUND	INTERNAL PRESSURE	10'	130'
10	REFUELING	7 GAL	PROPANE	ABOVE GROUND	INTERNAL PRESSURE	10'	130'
5	REFUELING	25 GAL	PROPANE	ABOVE GROUND	INTERNAL PRESSURE	10'	130'

OTHER HAZARDOUS MATERIALS:
SOIL REMEDIATION:

REPIPE:

MEDICAL GAS / COMPRESSED GAS SYSTEM:
COMMENTS:

FIRE DEPARTMENT USE ONLY

DATE	INSPECTOR'S NAME	COMMENTS
		Review - 7-7-09 - 6603
7-14-09	Williamson	FINAL ON EXISTING LPG TANKS - SYSTEMS - BOTTLES.
		ALL MARKED & LABELED - PLACARDS MOUNTED
		QUARTERLY PRESSURE TESTING RESULTS - RECEIVED

1. White Copy – Permit
2. Canary Copy – Office File (HMM)
3. Pink Copy – Records
4. Goldenrod Copy – Permittee's/Receipt

APPLICATION APPROVED: David Williamson
DEPUTY FIRE MARSHAL
DATE 7-14-09

FPB-365 (Rev. 8-08) *This information is available in alternative formats upon request.*

The City of San Diego Fire and Life Safety Services
1010 Second Ave., Suite 400 • San Diego, California 92101

Application for Single Event Permit

NOTE: *This application is not a valid permit until signed by a Fire Department representative.*

PLEASE PRINT WITH BALLPOINT PEN OR TYPE.

— OFFICE USE ONLY —

FILE ID 98 003946 SEQ 009 PERMIT NBR TA 100007
MANAGER HAZMAT TYPE PMT Inspector TS P 6603
Last Visit 07/07/09

Application Date	Permit Type	Received Date	Time	Issue Date
07/07/09	TA	07/07/09	09:00	

BAE SYSTEMS SDSR
APPLICANT Name

BAE SYSTEMS SDSR
Business Name

2205 E BELT STREET
Address

Address (cont.)

SAN DIEGO CA
City and State

92113
Zip Code

(619) 238-1000
Business Phone

DAVID CASE IN-HOUSE
CONTRACTOR Name

Business Name

Address

Address (cont.)

City and State

Zip Code

(619) 571-1107
Business Phone

2205 BELT ST
JOBSITE Street Number / Fraction / Pre-Dir / Street Name / Post-Dir / Suffix / Unit

92113
Zip Code

Sub Occupancy

760 023 11 00
Parcel Number

Max Occupancy

2 NEW COMP GAS INSTALL 15 GAL EACH
Location

(619) 571-1107
Jobsite Phone

— OFFICE USE ONLY —

District: Thomas Brothers: 65 E4 NW FD Map: 1525 A 6

EVENT From Date Time

EVENT To Date Time

Bond Required (Y/N) Consecutive Days (Y/N)

Weekend / Holiday (Y/N) After Business (Y/N) Standbys

COMPENSATION / LIABILITY INSURANCE ON FILE WITH CITY

___/___/___ Dated

Insurance Agency

Amount

Policy Number

N2/CO2 Comp Gas Tanks & Piping

— OFFICE USE ONLY —

INSPECTION Due Date: 07/07/10 Next Inspection Date: FINAL

ACTIVITY 7/14/09 Date 19F Activity Code 3 00 Time TS District P Shift 6603 Inspector

FD-1030 (1-97)

— 1 —

WHITE — OWNER/OCCUPANT COPY
CANARY — INSPECTOR COPY
WHITE — FILE COPY

63732 PAGE 2207

The City of San Diego Fire and Life Safety Services
1010 Second Ave., Suite 400 • San Diego, California 92101

Application for Single Event Permit *(Continued)*

— FOR OFFICE USE ONLY —

FILE ID 98 001946 SEQ 009 PERMIT NBR TA 100007
MANAGER HAZMAT TYPE PMT Inspector TS P 6603
2205 BELT ST
JOBSITE Street Number / Fraction / Pre-Dir / Street Name / Post-Dir / Suffix / Unit

IF THIS IS A FIREWORKS PERMIT, COMPLETE THE FOLLOWING:

	Operator Name	License
1)		
2)		
3)		

Public Display License	Number Shells	Maximum Size Shell	Number Salutes

IF THIS IS A TANK PERMIT, COMPLETE THE FOLLOWING

SEQ	I/R	Capacity (Gallons)	Liquid	AG/UG	Supply Source	Distance to Building	Distance to Property Line
001	I	15	LPG	AG	PRESSURE	1	45
002	I	15	LPG	AG	PRESSURE	1	45

I/R: I — Tank Installation; R — Tank Removal **AG/UG:** AG — Above Ground Tank; UG — Underground Tank

PURPOSE AND SQUARE FEET OF TENT/CANOPY (ATTACH SKETCH)

COMMENTS / ADDITIONAL INFORMATION OR REQUIREMENTS TANKS (cylinders) checked - piping checked & verified - marked & labeled

understand that the applicable portions of the terms, conditions, and stipulations on the reverse of this document are considered to be an integral part of this permit.

David V Case 7-14-09
Applicant Signature Date

Model Rocket Permit, Applicant Date of Birth: _____

ubject to terms, conditions, and stipulations on the reverse of this document, this permit is hereby approved.

Paul Williams 7-14-09
ire Dept Representative Signature Date

ity Manager Representative Signature Date

63732 PAGE 2208

The City of San Diego Fire and Life Safety Services
1010 Second Ave., Suite 400 • San Diego, California 92101

Application for Single Event Permit

NOTE: *This application is not a valid permit until signed by a Fire Department representative.*

PLEASE PRINT WITH BALLPOINT PEN OR TYPE.

— OFFICE USE ONLY —

FILE ID 98 001946 SEQ 007 PERMIT NBR TA 100005
MANAGER HAZMAT TYPE PMT Inspector TS P 6603
Last Visit 07/07/09

Application Date	Permit Type	Received Date	Time	Issue Date
07/07/09	TA	07/07/09	09:00	

BAE SYSTEMS SDSR
APPLICANT Name

BAE SYSTEMS SDSR
Business Name

2205 E BELT STREET
Address

Address (cont.)

SAN DIEGO CA
City and State

92113
Zip Code

(619) 238-1000
Business Phone

DAVID CASE
CONTRACTOR Name

Business Name

Address

Address (cont.)

City and State

Zip Code

Business Phone

2205 BELT ST
JOBSITE Street Number / Fraction / Pre-Dir / Street Name / Post-Dir / Suffix / Unit

92113
Zip Code

Sub Occupancy

760 023 11 00
Parcel Number

Max Occupancy

3 PERMITS FOR 10 CRYO AGT INSTALLS
Location

(619) 571-1107
Jobsite Phone

— OFFICE USE ONLY —

District

Thomas Brothers 65 E4 NW FD Map 1525 A 6

EVENT From Date Time

EVENT To Date Time

Bond Required (Y/N) Consecutive Days (Y/N)

Weekend / Holiday (Y/N) After Business (Y/N) Standbys

COMPENSATION / LIABILITY INSURANCE ON FILE WITH CITY

___/___/___ Dated

Insurance Agency

Amount

Policy Number

(10) cryo Tanks & systems

— OFFICE USE ONLY —

INSPECTION Due Date 07/07/10 Next Inspection Date FINAL

ACTIVITY 2/14/09 Date 20F Activity Code 3 30 Time TS District P Shift 6603 Inspector

FD-1030 (1-97)

— 1 —

WHITE — OWNER/OCCUPANT COPY
CANARY — INSPECTOR COPY
WHITE — FILE COPY

63732 PAGE 2209

The City of San Diego Fire and Life Safety Services
1010 Second Ave., Suite 400 • San Diego, California 92101

Application for Single Event Permit *(Continued)*

— FOR OFFICE USE ONLY —

FILE ID: 08-001946 SEQ: 007 PERMIT NBR: TA 100005
MANAGER: HAZMAT TYPE: PMT Inspector: TS P 6603
2205 BELT ST

JOBSITE Street Number / Fraction / Pre-Dir / Street Name / Post-Dir / Suffix / Unit

IF THIS IS A FIREWORKS PERMIT, COMPLETE THE FOLLOWING:

Operator Name	License
1)	
2)	
3)	

Public Display License	Number Shells	Maximum Size Shell	Number Salutes

IF THIS IS A TANK PERMIT, COMPLETE THE FOLLOWING

SEQ	I/R	Capacity (Gallons)	Liquid	AG/UG	Supply Source	Distance to Building	Distance to Property Line
001	I	1,500	CRYO TNKS 10EA	AG	PRESSURE	1	45

I/R: I — Tank Installation; R — Tank Removal **AG/UG:** AG — Above Ground Tank; UG — Underground Tank

PURPOSE AND SQUARE FEET OF TENT/CANOPY (ATTACH SKETCH)

(10)

COMMENTS / ADDITIONAL INFORMATION OR REQUIREMENTS CRYO TANKS AND PIPING CHECKED & VERIFIED - LABELS-MARKED

I understand that the applicable portions of the terms, conditions, and stipulations on the reverse of this document are considered to be an integral part of this permit.

* David W Cox — Applicant Signature — Date: 7-14-09

If Model Rocket Permit, Applicant Date of Birth: _____

Subject to terms, conditions, and stipulations on the reverse of this document, this permit is hereby approved.

David Williamson — Fire Dept Representative Signature — Date: 7-14-09

City Manager Representative Signature — Date

63732 PAGE 2210

CITY OF SAN DIEGO
FIRE-RESCUE DEPARTMENT
1010 SECOND AVENUE, SUITE #300
SAN DIEGO, CA 92101
PHONE: (619) 533-4477 / (619) 533-4449

3 permits #196.00 DOP

FIMS FILE # 7800 1946 SQ # 007
PERMIT# TA 10000 5
RECEIPT # 07-0070557
DATE RECEIVED 7-07-09
CK #: 685685 $2988.-

ardous Material
mit Application (Fire Dept.)

FACILITY ADDRESS

NAME (OR NAME OF BUSINESS): BAE SYSTEMS - SDSR
ADDRESS (NUMBER) (STREET): 2205 E BELT ST.
CITY: SAN DIEGO ZIP: 92113 TELEPHONE NO: 619-238-1000

OWNER

NAME (IF NOT OWNER): BAE SYSTEM SDSR
MAILING ADDRESS (NUMBER) (STREET): 2205 E BELT ST.
CITY: SAN DIEGO ZIP: 92113 TELEPHONE NO: 619-238-1000

CONTRACTOR INFORMATION

NAME (IF NOT OWNER): IN HOUSE
MAILING ADDRESS (NUMBER) (STREET):
CITY: ZIP: TELEPHONE NO:

PROVIDE CONTRACTOR LICENSE
SIGNATURE (OWNER OR AGENT) REQUIRED: David W. Case DATE SIGNED: 7/7/09
PRINT NAME: DAVID W. CASE

COMPENSATION/LIABILITY INSURANCE (OF CONTRACTOR OR OWNER) PROOF REQUIRED FOR EACH APPLICATION
PHONE NUMBER: 619-238-501-1107 FAX NUMBER:

NO. OF TANKS	WORK PERFORMED: NEW, REMOVED, ETC.	TANK CAPACITY GALLONS (Pressurized Gas Cylinders in cu. ft.)	TYPE OF HAZARDOUS MATERIAL STORED OR USED	TYPE OF STORAGE: ABOVE GROUND, BELOW GROUND	TYPE OF SUPPLY: PUMP, PRESSURE, INTERNAL PRESSURE, OR GRAVITY	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE
1	NEW	118.8 GAL	LIQUID NITROGEN	ABOVE	INTERNAL PRESSURE	6'	75'
1	NEW	264 GAL	ARGON	ABOVE	INTERNAL PRESSURE	6'	75'
1	NEW	264 GAL	CO^2	ABOVE	INTERNAL PRESSURE	6'	75'
1	NEW	1500 GAL	LIQUID OXYGEN	ABOVE	INTERNAL PRESSURE	6'	75'

OTHER HAZARDOUS MATERIALS:
SOIL REMEDIATION:

REPIPE:

MEDICAL GAS / COMPRESSED GAS SYSTEM:
COMMENTS:

FIRE DEPARTMENT USE ONLY

DATE	INSPECTOR'S NAME	COMMENTS
		Review - 7-7-09
7-14-09	WILLIAMSON	FINAL (10) CRYO TANKS, PIPING, SYSTEMS - ALL PIPING CHECKED & VERIFIED - MARKED AND LABELED - PLAQUES POSTED
		ANNUALLY PRESSURE TEST RESULTS - RECEIVED

1. White Copy – Permit
2. Canary Copy – Office File (HMM)
3. Pink Copy – Records
4. Goldenrod Copy – Permittee's/Receipt

APPLICATION APPROVED: Dwd Williamson
DEPUTY FIRE MARSHAL
DATE 7-14-09 63732

FPB-365 (Rev. 8-08) This information is available in alternative formats upon request.

2009

The City of San Diego Fire and Life Safety Services
1010 Second Ave., Suite 400 • San Diego, California 92101

Application for Single Event Permit

NOTE: *This application is not a valid permit until signed by a Fire Department representative.*

PLEASE PRINT WITH BALLPOINT PEN OR TYPE.

— OFFICE USE ONLY —

FILE ID 98 001946 SEQ 006 PERMIT NBR TA 100004 5/6
MANAGER HAZMAT TYPE PMT Inspector TS P 6603
Last Visit 07/07/09

Application Date	Permit Type	Received Date	Time	Issue Date
07/07/09	TA	07/07/09	09:00	

BAE SYSTEMS SDSR
APPLICANT Name

BAE SYSTEMS SDSR
Business Name

2205 E BELT STREET
Address

Address (cont.)

SAN DIEGO CA
City and State

92113
Zip Code

(619) 238-1000
Business Phone

DAVID CASE
CONTRACTOR Name

Business Name

Address

Address (cont.)

City and State

Zip Code

(619) 571-1107
Business Phone

2205 BELT ST
JOBSITE Street Number / Fraction / Pre-Dir / Street Name / Post-Dir / Suffix / Unit

92113
Zip Code

Sub Occupancy

760 023 11 00
Parcel Number

Max Occupancy

3 NEW INSTALL AG DIESEL TANKS
Location

(619) 571-1107
Jobsite Phone

— OFFICE USE ONLY —

District: Thomas Brothers 65 E4 NW FD Map 1525 A 6

EVENT From Date Time

EVENT To Date Time

Bond Required (Y/N) Consecutive Days (Y/N)

Weekend / Holiday (Y/N) After Business (Y/N) Standbys

COMPENSATION / LIABILITY INSURANCE ON FILE WITH CITY

___/___/___ Dated

Insurance Agency

Amount

Policy Number

(3) Agt's Diesel

— OFFICE USE ONLY —

INSPECTION Due Date 07/07/10 Next Inspection Date FINAL

ACTIVITY 7/14/09 Date 11F Activity Code 3 00 Time TS District P Shift 6603 Inspector

FD-1030 (1-97)

— 1 —

WHITE — OWNER/OCCUPANT COPY
CANARY — INSPECTOR COPY
WHITE — FILE COPY

63732 PAGE 2212

The City of San Diego Fire and Life Safety Services
1010 Second Ave., Suite 400 • San Diego, California 92101

Application for Single Event Permit *(Continued)*

— FOR OFFICE USE ONLY —

FILE ID 93-001946 SEQ 065 PERMIT NBR TA 100004
MANAGER HAZMAT TYPE PMT Inspector TS P 6603
2205 PELT ST
JOBSITE Street Number / Fraction / Pre-Dir / Street Name / Post-Dir / Suffix / Unit

IF THIS IS A FIREWORKS PERMIT, COMPLETE THE FOLLOWING:

	Operator Name	License
1)		
2)		
3)		

Public Display License	Number Shells	Maximum Size Shell	Number Salutes

IF THIS IS A TANK PERMIT, COMPLETE THE FOLLOWING

SEQ	I/R	Capacity (Gallons)	Liquid	AG/UG	Supply Source	Distance to Building	Distance to Property Line
001	I	100	DIESEL 2-EACH	AG	PUMP	10	130
002	I	210	DIESEL 1-EACH	AG	PUMP	10	130

I/R: I — Tank Installation; R — Tank Removal **AG/UG:** AG — Above Ground Tank; UG — Underground Tank

PURPOSE AND SQUARE FEET OF TENT/CANOPY (ATTACH SKETCH)

COMMENTS / ADDITIONAL INFORMATION OR REQUIREMENTS ALL TANKS CHECKED & VERIFIED
TANKS, HOSES, BATTERY POWERED —

I understand that the applicable portions of the terms, conditions, and stipulations on the reverse of this document are considered to be an integral part of this permit.

X David W Cose — Applicant Signature — 7-14-09 Date

If Model Rocket Permit, Applicant Date of Birth: _____

Subject to terms, conditions, and stipulations on the reverse of this document, this permit is hereby approved.

Dave Williams — Fire Dept Representative Signature — 7-14-09 Date

_____ City Manager Representative Signature — _____ Date

63732 PAGE 2213

CITY OF SAN DIEGO
FIRE-RESCUE DEPARTMENT
1010 SECOND AVENUE, SUITE #300
SAN DIEGO, CA 92101
PHONE: (619) 533-4477 / (619) 533-4449

FIMS FILE # 98001946 SQ # 006
PERMIT# TA 100004
RECEIPT # 07.007.0536
DATE RECEIVED 7.07.09
CK #: 685682 $ 1130.00

Hazardous Material Permit Application (Fire Dept.)

SITE ADDRESS — NAME (OR NAME OF BUSINESS)	BAE Systems SDSR
SITE ADDRESS — ADDRESS (NUMBER) (STREET)	2205 E Belt St
SITE ADDRESS — CITY / ZIP / TELEPHONE NO.	San Diego / 92113 / 619-238-1000
OWNER — NAME (IF NOT OWNER)	BAE System SDSR
OWNER — MAILING ADDRESS (NUMBER) (STREET)	2205 E Belt St
OWNER — CITY / ZIP / TELEPHONE NO.	San Diego / 92113 / 619-238-1000
COMPENSATION/LIABILITY INSURANCE (OF CONTRACTOR OR OWNER) PROOF REQUIRED FOR EACH APPLICATION	
CONTRACTOR INFORMATION — NAME (IF NOT OWNER)	IN HOUSE
CONTRACTOR INFORMATION — MAILING ADDRESS (NUMBER) (STREET)	
CONTRACTOR INFORMATION — CITY / ZIP / TELEPHONE NO.	
CONTRACTOR INFORMATION — PROVIDE CONTRACTOR LICENSE	
CONTRACTOR INFORMATION — SIGNATURE (OWNER OR AGENT) REQUIRED / DATE SIGNED	David W. Case / 7/2/09
CONTRACTOR INFORMATION — PRINT NAME	DAVID W. CASE
CONTRACTOR INFORMATION — PHONE NUMBER / FAX NUMBER	619-571-1107

NO. OF TANKS	WORK PERFORMED NEW, REMOVED ETC.	TANK CAPACITY GALLONS (Pressurized Gas, Cylinders in cu. ft.)	TYPE OF HAZARDOUS MATERIAL STORED OR USED	TYPE OF STORAGE ABOVE GROUND, BELOW GROUND	TYPE OF SUPPLY PUMP PRESSURE INTERNAL PRESSURE OR GRAVITY	DISTANCE INSTALLED FROM BUILDING	DISTANCE INSTALLED FROM PROPERTY LINE
2	NEW	100	DIESEL	ABOVE GROUND	PUMP	10'	130'
1	NEW	210	DIESEL	ABOVE GROUND	PUMP	10'	130'

OTHER HAZARDOUS MATERIALS:
SOIL REMEDIATION:

REPIPE:

MEDICAL GAS / COMPRESSED GAS SYSTEM:
COMMENTS:

FIRE DEPARTMENT USE ONLY

DATE	INSPECTOR'S NAME	COMMENTS
7-14-09	Williamson	Review - 7-7-09 FINAL ON 3 AST's - DIESEL USED TO LOAD ON SHIPS FOR FILLING EQUIPMENT - RATED, CHECKED & VERIFIED - BATTERY POWERED / 210 gal USED TO FILL CRANES WITH NEED - 25' FT ELECTRIC CORD

White Copy – Permit
Canary Copy – Office File (HMM)
Pink Copy – Records
Goldenrod Copy – Permittee's/Receipt

APPLICATION APPROVED: David Williamson
DEPUTY FIRE MARSHAL
DATE 7-14-09

PB-365 (Rev. 8-08) *This information is available in alternative formats upon request.*

400 East Belt Street
San Diego, California

November 6, 2014
Project No. 107764001

REGIONAL WATER QUALITY CONTROL PROGRAM RECORDS

Adrian Olivares

From: Lima, Lucas@Waterboards [Lucas.Lima@Waterboards.ca.gov] on behalf of RB9_Records, WB@Waterboards [WB.RB9_Records@waterboards.ca.gov]

Sent: Tuesday, July 22, 2014 11:18 AM

To: Adrian Olivares

Subject: RE: Records Request - East Belt St

Good morning Adrian,

We have upload the documents requested onto our FTP site.

Your folder is named 2205EastBeltStreet. This folder will be automatically deleted within a week.

I suggest to you copy the link below and paste it onto the Windows Explorer browser. That way, it will be much easier to copy the wanted files. Clicking on the link below will require you to copy files one by one.

ftp://swrcb2a.waterboards.ca.gov/pub/rwqcb9/2205EastBeltStreet

Thank you,

Lucas Lima
San Diego Regional Water Quality Control Board
2375 Northside Drive, Suite 100
San Diego, CA 92108
(619) 521-3377

Water Boards

From: Adrian Olivares [mailto:aolivares@ninyoandmoore.com]
Sent: Monday, July 21, 2014 3:38 PM
To: RB9_Records, WB@Waterboards
Subject: Records Request - East Belt St

Please see attached records request.

Thanks,

Adrian Olivares
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 x 11257
(858) 576-9600 (Fax)
aolivares@ninyoandmoore.com
Experience . Quality . Commitment

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

California Regional Water Quality Control Board
San Diego Region

PUBLIC RECORDS ACCESS REQUEST FORM

1. Requestor Information

Requester Name: ADRIAN OLIVARES			
Organization: NINYO & MOORE			
Address: 5710 RUFFIN ROAD			
City: SAN DIEGO	**State:** CA	**Zipcode:** 92123	**E-Mail Address** aolivares@ninyoandmoore.com
Daytime Phone: (858) 576- 1000 ext. 11257	**Cell Phone:**		**Fax** (858) 576- 9600

2. Request For Appointment to Inspect Regional Board Records

Date of Request *(The date you submitted this form to the Regional Board)* **July 21, 2014**	**Day and Appointment Time for Record Review (optional** - *You may specify the day of the week and appointment time that works best for you)*	**Any day** Preferred d*ay of the week*	**Any time** *Preferred Tine*

For Regional Board Office Use Only

Request Form Received by: **Phone** ☐ **Mail** ☐ **E-mail** ☐ **Fax** ☐ **Walk-In** ☐

Date Form Received _____ *RWQCB Staff Initials:* _____	**Date Requester Contacted:** _____ *RWQCB Staff Initials:* _____	**Date / Time of Appointment:** _____ *RWQCB Staff Initials:* _____
Date Copies Requested _____ *RWQCB Staff Initials:* _____	**Copy Fee :** _____ **Check #:** *RWQCB Staff Initials:* _____	**Date Copies Mailed:** _____ *RWQCB Staff Initials:* _____

3. Description of Public Records Requested

Record 1

Agency/ Owner Name (if known): _____		**Facility Name (if Known)** _____	
Facility Address (if known): 2205 EAST BELT STREET			
City (if known): SAN DIEGO	**State:** CA	**Zipcode (if known):** 92113	

Public Record Subject (if known): **Select a subject from list here**

Time Period (if known): *Please specify either "Most current volume of record" or what portion of record in terms of approximate start date (month/ year) and approximate end date (month /year) you are interested in.*

Most current volume of record: ☒ or Start Date (mm/yyyy): _____ and End Date (mm/yyyy) _____

Additional Information: *If a particular document is required, it should be identified precisely, preferably by date and title. If you cannot identify a specific record clearly explain your needs:* _____

For Regional Board Office Use Only	**Records Located:** ☐	**File Records Not Located:** ☐	**Records Exempt From Public Review:** ☐

Adrian Olivares

From: Lima, Lucas@Waterboards [Lucas.Lima@Waterboards.ca.gov] on behalf of RB9_Records, WB@Waterboards [WB.RB9_Records@waterboards.ca.gov]

Sent: Tuesday, July 22, 2014 10:58 AM

To: Adrian Olivares

Subject: RE: Records Request - Melrose Dr & Belt St

Dear Adrian,

There are no records found for the addresses requested.

Thank you,

Lucas Lima
San Diego Regional Water Quality Control Board
2375 Northside Drive, Suite 100
San Diego, CA 92108
(619) 521-3377

Water Boards

From: Adrian Olivares [mailto:aolivares@ninyoandmoore.com]
Sent: Monday, July 21, 2014 2:08 PM
To: RB9_Records, WB@Waterboards
Subject: Records Request - Melrose Dr & Belt St

Adrian Olivares
Senior Project Environmental Scientist
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road
San Diego, CA 92123
(858) 576-1000 x 11257
(858) 576-9600 (Fax)
aolivares@ninyoandmoore.com
Experience . Quality . Commitment

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

California Regional Water Quality Control Board
San Diego Region

PUBLIC RECORDS ACCESS REQUEST FORM

1. Requestor Information

Requester Name: ADRIAN OLIVARES			
Organization: NINYO & MOORE			
Address: 5710 RUFFIN ROAD			
City: SAN DIEGO	**State:** CA	**Zipcode:** 92123	**E-Mail Address** aolivares@ninyoandmoore.com
Daytime Phone: (858) 576- 1000 ext. 11257	**Cell Phone:**		**Fax** (858) 576- 9600

2. Request For Appointment to Inspect Regional Board Records

Date of Request *(The date you submitted this form to the Regional Board)* **July 22, 2014**	**Day and Appointment Time for Record Review (optional** - *You may specify the day of the week and appointment time that works best for you)*	**Any day** Preferred day *of the week*	**Any time** *Preferred Tine*

For Regional Board Office Use Only

Request Form Received by: **Phone** ☐ **Mail** ☐ **E-mail** ☐ **Fax** ☐ **Walk-In** ☐

Date Form Received _____ *RWQCB Staff Initials:* _____	**Date Requester Contacted:** _____ *RWQCB Staff Initials:* _____	**Date / Time of Appointment:** _____ *RWQCB Staff Initials:* _____
Date Copies Requested _____ *RWQCB Staff Initials:* _____	**Copy Fee :** _____ **Check #:** *RWQCB Staff Initials:* _____	**Date Copies Mailed:** _____ *RWQCB Staff Initials:* _____

3. Description of Public Records Requested

Record 1

Agency/ Owner Name (if known):		**Facility Name (if Known)**	
Facility Address (if known): 1691 AND 1693 MELROSE DRIVE			
City (if known): SAN MARCOS	**State:** CA	**Zipcode (if known):** 92078	

Public Record Subject (if known): **Select a subject from list here**

Time Period (if known): *Please specify either "Most current volume of record" or what portion of record in terms of approximate start date (month/ year) and approximate end date (month /year) you are interested in.*

Most current volume of record ☒ or Start Date (mm/yyyy): _____ and End Date (mm/yyyy): _____

Additional Information *If a particular document is required, it should be identified precisely, preferably by date and title. If you cannot identify a specific record clearly explain your needs:* Unauthorized release case no. 9UT596

For Regional Board Office Use Only	**Records Located:** ☐	**File Records Not Located:** ☐	**Records Exempt From Public Review:** ☐

Record 2

Agency/ Owner Name (if known):		**Facility Name (if Known)**
		_____
Address (if known): 400 EAST BELT STREET		
City (if known): San Diego	**State:** CA	**Zipcode (if known):** 92113
File Record Subject (if known): **Select a subject from list here**		
Time Period (if known): *Please specify either "Most current volume of record" or what portion of record in terms of approximate start date (month/ year) and approximate end date (month /year) you are interested in.* Most current volume of record: ☒ or Start Date (mm/yyyy): _____ and End Date (mm/yyyy): _____		
If a particular document is required, it should be identified precisely, preferably by date and title. If you cannot identify a specific record clearly explain your needs: _____		
For Regional Board Office Use Only	**Records Located:** ☐	**File Records Not Located:** ☐ **Records Exempt From Public Review:** ☐

Record 3

Agency/ Owner Name (if known):		**Facility Name (if Known)**
_____		_____
Address (if known): 1770 LA COSTA MEADOWS DRIVE		
City (if known): SAN MARCOS	**State:** CA	**Zipcode (if known):** 92078
File Record Subject (if known): **Select a subject from list here**		
Time Period (if known): *Please specify either "Most current volume of record" or what portion of record in terms of approximate start date (month/ year) and approximate end date (month /year) you are interested in.* Most current volume of record: ☒ or Start Date (mm/yyyy): _____ and End Date (mm/yyyy): _____		
If a particular document is required, it should be identified precisely, preferably by date and title. If you cannot identify a specific record clearly explain your needs: _____		
For Regional Board Office Use Only	**Records Located:** ☐	**File Records Not Located:** ☐ **Records Exempt From Public Review:** ☐

INDUSTRIAL WASTEWATER CONTROL PROGRAM RECORDS

Draft

INDUSTRIAL WASTEWATER CONTROL PROGRAM INFORMATION REQUEST

Complete top portion and return to:

Industrial Wastewater Control Program
9192 Topaz Wy, MS 901D
San Diego, CA 92123-1119

Phone: (858) 654-4100
Fax: (858) 654-4110

Requester Information:

Name: Adrian Olivares aolivares@ninyoandmoore.com

Company: Ninyo & Moore

Address: 5710 Ruffin Road
San Diego, California 92123

Phone: (858) 576-1000 x 11257 Fax: (858) 576-9600

Site Information:

Address: 400 East Belt Street
San Diego, CA 92113

For IWCP Use Only

A search of our records was conducted and the following information about the above site was found:

Permit # _____ Issued ____/____/____

Permittee Name _____

Category _____ Permitted flow _____

Description of permitted wastestream: _____

Violations: _____

Other Information: _____

_____ The above permit was inactivated on ____/____/____ due to ownership change, facility closure, or other significant changes in operations.

X No permit on file.

Inspector Ryan Cross Date 29 Jul 2014

The above information is meant only to provide an overview of permitted industrial discharges to the sewer system. For additional information about environmental permits held by this facility, you may wish to contact the Hazardous Materials Management Division at (619) 338-2284 or the Air Pollution Control District at (858) 586-2650.

Area 11

INDUSTRIAL WASTEWATER CONTROL PROGRAM INFORMATION REQUEST

Complete top portion and return to:

Industrial Wastewater Control Program
9192 Topaz Wy, MS 901D
San Diego, CA 92123-1119

Phone: (858) 654-4100
Fax: (858) 654-4110

Requester Information:

Name: Adrian Olivares aolivares@ninyoandmoore.com

Company: Ninyo & Moore

Address: 5710 Ruffin Road

San Diego, California 92123

Phone: (858) 576-1000 x 1257 Fax: (858) 576-9600

Site Information:

Address: 2205 East Belt Street

San Diego, CA 92113

For IWCP Use Only #1/3

A search of our records was conducted and the following information about the above site was found:

Permit # 11-0217-00A through 11-0217-03A Issued 21 Jun. 1994

Permittee Name BAE Systems / Southwest Marine

Category 2 Permitted flow 12,000 - 50,000

Description of permitted wastestream: Vehicle Steam Cleaning, ~~Stormwater~~

Violations: Late/Incomplete Self-Monitoring Reports: 2 May 14, 24 Jun 09, 07 Sep 05 23 Aug 2004; Zinc Limit Exceeded 26 Jul 1996

Other Information:

_____ The above permit was inactivated on ____/____/____ due to ownership change, facility closure, or other significant changes in operations.

_____ No permit on file.

Inspector Tyson Cross Date 29 Jul 14

The above information is meant only to provide an overview of permitted industrial discharges to the sewer system. For additional information about environmental permits held by this facility, you may wish to contact the Hazardous Materials Management Division at (619) 338-2284 or the Air Pollution Control District at (858) 586-2650.

Area 11

INDUSTRIAL WASTEWATER CONTROL PROGRAM INFORMATION REQUEST

Complete top portion and return to:

Industrial Wastewater Control Program
9192 Topaz Wy, MS 901D
San Diego, CA 92123-1119

Phone: (858) 654-4100
Fax: (858) 654-4110

Requester Information:

Name: Adrian Olivares aolivares@ninyoandmoore.com

Company: Ninyo & Moore

Address: 5710 Ruffin Road

San Diego, California 92123

Phone: (858) 576-1000 x 1257 Fax: (858) 576-9600

Site Information:

Address: 2205 East Belt Street

San Diego, CA 92113

For IWCP Use Only # 2/3

A search of our records was conducted and the following information about the above site was found:

Permit # 11-0564-01A Issued ____/____/____

Permittee Name San Diego Bay Environmental Restoration Fund - NorthTrust

Category _____ Permitted flow _____

Description of permitted wastestream: _____

Violations: _____

Other Information: ~~Peter~~ Incomplete Permit Application Filed 30 Jun 2014. No permit at this time

____ The above permit was inactivated on ____/____/____ due to ownership change, facility closure, or other significant changes in operations.

X No permit on file.

Inspector Ryan Gross Date 29 Jul 14

The above information is meant only to provide an overview of permitted industrial discharges to the sewer system. For additional information about environmental permits held by this facility, you may wish to contact the Hazardous Materials Management Division at (619) 338-2284 or the Air Pollution Control District at (858) 586-2650.

Area 11

INDUSTRIAL WASTEWATER CONTROL PROGRAM INFORMATION REQUEST

Complete top portion and return to:

Industrial Wastewater Control Program
9192 Topaz Wy, MS 901D
San Diego, CA 92123-1119

Phone: (858) 654-4100
Fax: (858) 654-4110

Requester Information:

Name: Adrian Olivares aolivares@ninyoandmoore.com

Company: Ninyo & Moore

Address: 5710 Ruffin Road

San Diego, California 92123

Phone: (858) 576-1000 x 1257 Fax: (858) 576-9600

Site Information:

Address: 2205 East Belt Street

San Diego, CA 92113

For IWCP Use Only #3/3

A search of our records was conducted and the following information about the above site was found:

Permit # 11-0565-01A Issued 22 Aug 2013

Permittee Name BAE Systems San Diego Ship Repair

Category 2 Permitted flow 14,285 gpd

Description of permitted wastestream: Construction Dewatering w/ pollutants possible

Violations:

Other Information:

X The above permit was inactivated on 30 Oct 2013 due to ownership change, facility closure, or other significant changes in operations.

____ No permit on file.

Inspector _____ Date 29 Jul 14

The above information is meant only to provide an overview of permitted industrial discharges to the sewer system. For additional information about environmental permits held by this facility, you may wish to contact the Hazardous Materials Management Division at (619) 338-2284 or the Air Pollution Control District at (858) 586-2650.

OFF-SITE RECORDS

F. Allee

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
(619) 236-2237

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

OFFICE OF THE DEPUTY DIRECTOR
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 338-3211

REVIEWED 5/30/89
HMMD

May 25, 1989

Shaun Gills
Continental Maritime of San Diego, Inc.
1995 Bayfront Street
San Diego, CA 92113-2124

Dear Mr. Gills:

RE: UNAUTHORIZED RELEASE #T0461/H00120-001
1445 BAYFRONT STREET, SAN DIEGO, CA

The site remediation report submitted to this Department by Applied Hydrogeologic Consultants summarizing the site characterization and mitigation activities at the above referenced location have been reviewed. These reports have also been discussed with staff of the Regional Water Quality Control Board (RWQCB). The RWQCB concurs with the determination of this Department that this site has been adequately mitigated. Based on current requirements and policies, no further action is indicated at this time.

Please be advised that if the current use of the site changes, additional site characterization and mitigation activity may be required. As the property owner, it is your responsibility to notify this Department prior to any such changes.

Thank you for your efforts in resolving this matter. Contact the Hazardous Materials Management Division at (619) 338-2211, if you require any additional assistance.

Sincerely,

GARY R. STEPHANY, Deputy Director
Environmental Health Services

GRS:js

cc: Fred Allee-HMMD
Jim Munch-RWQCB

WPA/04/T0461.FA4

SITE REMEDIATION SUMMARY

T0461

File No. H00120-001 Date Submitted 5/10/89

Facility Name CONTINENTAL MARITIME OF SAN DIEGO

Operator SAME Phone 234-8851

Address at Site 1445 BAY FRONT ST, SAN DIEGO

Mailing Address (if different) 1995 BAY FRONT STREET, SAN DIEGO, CA 92113-2124

Corporate Contact Person SHAUN GILLS Phone 234-8851

HAZMAT Specialist FRED AMEE Phone 338-2245

	Yes	No	NA
Off Site Impacts		◇	
Beneficial Use Area for Ground Water		◇	
Known Public Health Risks		◇	
Further Environmental Monitoring Required		◇	
Consultant's Reports on File	◇		
RWQCB Concurrence with Remediation	◇ (JIM MUNCH 5/11/89)		
Manifests Provided (Quantity Removed 220 YD³)	◇ (12/88)		

Contaminant: DIESEL

Cleanup Levels Established: 1,000 MG/KG TPH (SOIL)*

Maximum Concentrations Remaining On-Site: 500 MG/KG TPH

Comments: OBSERVATIONS MADE DURING TANK REMOVAL. REMEDIATION OF DIESEL CONTAMINATED SOILS BY EXCAVATION AND DISPOSAL IS COMPLETE.

*GROUNDWATER NOT IMPACTED.

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2088
1-800-253-9933
www.sdcdeh.org

RICHARD HAAS
ASSISTANT DIRECTOR

April 15, 2005

Mr. Russell McCarthy
Environmental Manager
Continental Maritime, Inc.
1995 Bay Front Street
San Diego, CA 92113-2122

Dear Mr. McCarthy:

UNDERGROUND STORAGE TANK (UST) CASE #H00120-002
CONTINENTAL MARITIME OF SAN DIEGO
AT 1995 BAY FRONT STREET, SAN DIEGO, CA

This letter confirms the completion of a site investigation and corrective action for the underground storage tank formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank is greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact Donn LiPera at (619) 338-2244 if you have questions regarding this matter.

Sincerely,

Richard F. Haas

for GARY W. ERBECK, Director
Department of Environmental Health
Site Assessment and Mitigation Program

GWE:DAL:kd

Enclosure

cc: John Odermatt, Regional Water Quality Control Board
Ron Duff, SWRCB, UST Cleanup Fund Program
Jerome Jaminet, TRC
Paul Brown, Port District

WP/H00120-002-405POPCLO

"Environmental and public health through leadership, partnership and science"

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

DATE: 4/7/2005

Agency Name: County of San Diego, Environmental Health, SAM	Address: P.O. Box 129261
City/State/ZIP: San Diego, CA 92112-9261	Phone: (619) 338-2222 FAX: (619) 338-2377
Responsible Staff Person: Donn LiPera	Title: Environmental Health Specialist

II. CASE INFORMATION

Site Facility Name: Continental Maritime of San Diego, Inc.

Site Facility Address: 1995 Bay Front Street, San Diego, CA 92113

RB LUSTIS Case No: N/A	Local Case No: H00120-002	LOP Case No: N/A
URF Filing Date: 9/4/1990	SWEEPS No: N/A	
Responsible Parties:	Address:	Phone Number:
Continental Maritime of San Diego, Inc.	1995 Bay Front Street, San Diego, CA 92113	619 234-8851 Russell McCarthy
San Diego Unified Port District	3165 Pacific Highway, San Diego, CA 92101	619 686-6597 Paul Brown

Tank No.	Size in Gal.	Contents	Closed in Place/Removed	Date
1	18,000	Diesel/Fuel Oil	Removed/Portion remaining under bldg. Was slurry filled.	June 1994

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Diesel Fuel

Site Characterization complete? Yes	Date Approved By Oversight Agency: 3/29/2004	
Monitoring Wells Installed? Yes	Number: 11	Proper Screened Interval? Yes
Highest GW Depth Below Ground Surface: 7.60 feet below grade (fbg)	Lowest Depth: 14.32	Flow Direction: South Southwest

Most Sensitive Current Use:

Beneficial Groundwater Use: None Designated
Existing Beneficial Surface Water Use: REC2 and Potential: REC1

Are Drinking Water Wells Affected? No	Aquifer Name: Lindbergh Hydrologic Sub Area 908.21
Is Surface Water Affected? No	Nearest SW name: San Diego Bay

Off-Site Beneficial Use Impacts (addresses/locations): None

Report(s) on file? Yes	Where is Report(s) Filed? County of San Diego, Environmental Health

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank(s)	One	Unknown	Unknown
Piping	All	Unknown	Unknown
Free Product	N/A	N/A	N/A
Soil	23.6 Tons 24.58 Tons	TPS Technologies TPS Technologies	10/14/1994 10/17/1994
Groundwater	4,000 Gallons	Sewer	9/10/1994
Barrels	N/A	N/A	N/A

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) H00120-002

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS - - BEFORE AND AFTER CLEANUP

Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	9300	9300	150.0	11.0	MTBE	N/A	N/A	5.610	N.D.@1.0
TPH (Diesel)	13000	13000	1.5	1.5	Ethylbenzene	75.0	75.0	2.2	.210
Benzene	6.12	6.12	8.7	3.6	Oil & Grease 418.1	81.8	81.8	N/A	N/A
Toluene	91.0	91.0	6.6	.088	Heavy Metals	N/A	N/A	N/A	N/A
Xylene	350.0	350.0	5.4	.422	Other				

Comments:

Closure of the 18,000-gallon concrete diesel tank in place was proposed in 1987 because the tank was partially located under building 3. Soil sampling showed elevated levels of TPH diesel. A permit to close the tank in place was issued in August 1987, but the tank was not slurry filled.

From 1987 to 1993, six soil borings were placed and ten groundwater-monitoring wells were installed to assess soil and groundwater contamination. The consultant concluded that the diesel release was assessed and that a separate release of gasoline was migrating from a source north and off the Continental Maritime property. Their conclusion was based on the presence of free product gasoline in up gradient wells, the detection of increasing concentrations of TPH gas and benzene in groundwater north of the diesel tank and the absence of diesel fuel in up gradient wells.

In 1994, the western portion of the tank was removed and the remaining part under the building was slurry filled and approximately 35 cubic yards of contaminated soil was excavated.

In 1998, Alton Geoscience (now TRC) submitted a request for closure identifying a former Unocal pipeline and the current Santa Fe Pacific pipeline as two potential sources for TPH gas and benzene in groundwater. TRC submitted a site investigation report for the Unocal pipeline to support their request. The DEH requested additional information regarding the Santa Fe Pacific pipeline as well as any underground storage tanks within a half-mile radius before considering the case for closure. TRC submitted the requested information in May 1999, and the DEH requested additional groundwater monitoring. In February of 2000, TRC submitted the additional groundwater monitoring requested by the DEH and again requested closure.

In a letter dated April 3, 2003, the DEH stated that a human health risk for benzene must be performed before the site would be considered for closure.

TRC submitted a Corrective Action Plan (CAP) dated October 2003, recommending natural attenuation for groundwater remediation. Additionally, the CAP stated that the Continental Maritime buildings affected by the benzene plume were no longer occupied and scheduled for demolition and replacement with a parking lot. TRC concluded no health risk exists since there are no longer any human receptors. As of 11/10/2004, buildings 3, 4, 5 and 9 have been removed and the parking lot is under construction. TRC estimates that approximately 480 cubic yards of fuel-affected soil remain in the subsurface with average concentrations of 603 mg/kg for TPHd and .0014mg/kg for benzene.

DEH conditionally approved the CAP and public review and comment began July 28, 2004, and ended August 30, 2004. No comments were received and the DEH concurs with the CAP recommendations.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes

Case oversight completed based upon the current site use as a ship building facility.

Site Management Requirements:

Any contaminated soil excavated as part of subsurface construction work must be managed in accordance with the legal requirements at that time.

Should corrective action be reviewed if land use changes? Yes

Monitoring Wells Decommissioned: Yes	Number Decommissioned: 11(see permit #LMON101947)	Number Retained: 0

List Enforcement Actions Taken: Notice of Corrective Action and Reimbursement Responsibility

List Enforcement Actions Rescinded: None

63732 PAGE 2231

V. LOCAL AGENCY REPRESENTATIVE DATA

H00120-002

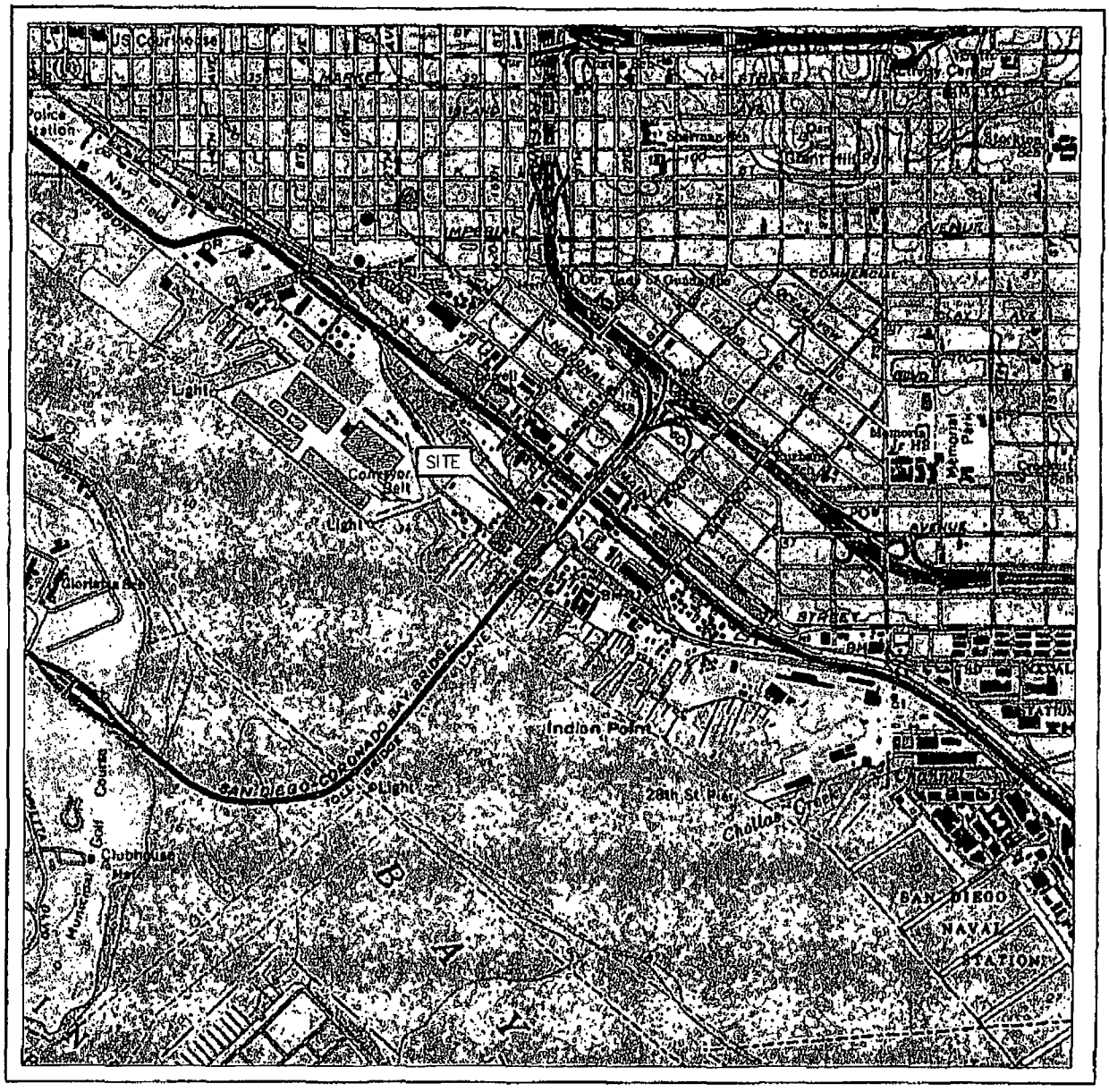
Name: Tony Sawyer	Title: Hydrogeologist Land and Water Quality Division
Signature: By V. Sawyer	Date: 4-13-05

VI. RWQCB NOTIFICATION

Date Submitted to RB: N/A Non-Beneficial Use Groundwater	RB Response: N/A	
RWQCB Staff Name: N/A	Title: N/A	Date: N/A

VII. ADDITIONAL COMMENTS, DATA, ETC.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.



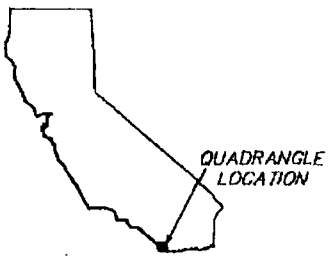
0 1/4 1/2 3/4 1 MILE

SCALE 1" = 2,000'

N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Point Loma Quadrangle



INDEX MAP

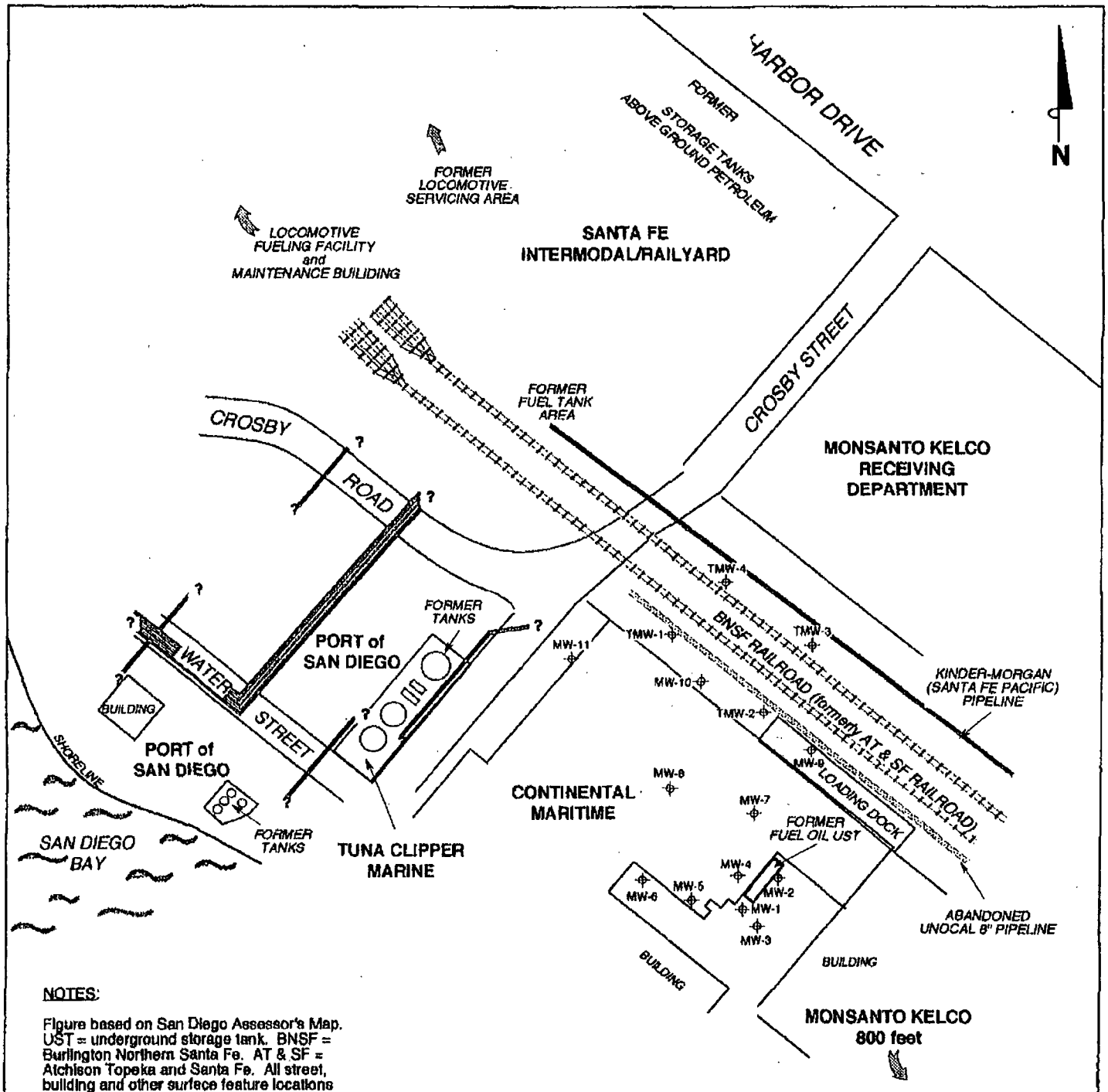
Continental Maritime
1995 Bay Front Street
San Diego, California

TRC

PS=1:1

FIGURE 1

SD\vol1\projects\indep\contmar\figure\Index Map.dwg 10/7/03 rmh



NOTES:

Figure based on San Diego Assessor's Map. UST = underground storage tank. BNSF = Burlington Northern Santa Fe. AT & SF = Atchison Topeka and Santa Fe. All street, building and other surface feature locations are appoximate.

LEGEND

MW-11 ⊕ Monitor Well

4 to 6 inch Fuel Pipeline

Approximate Scale (feet)

0 200

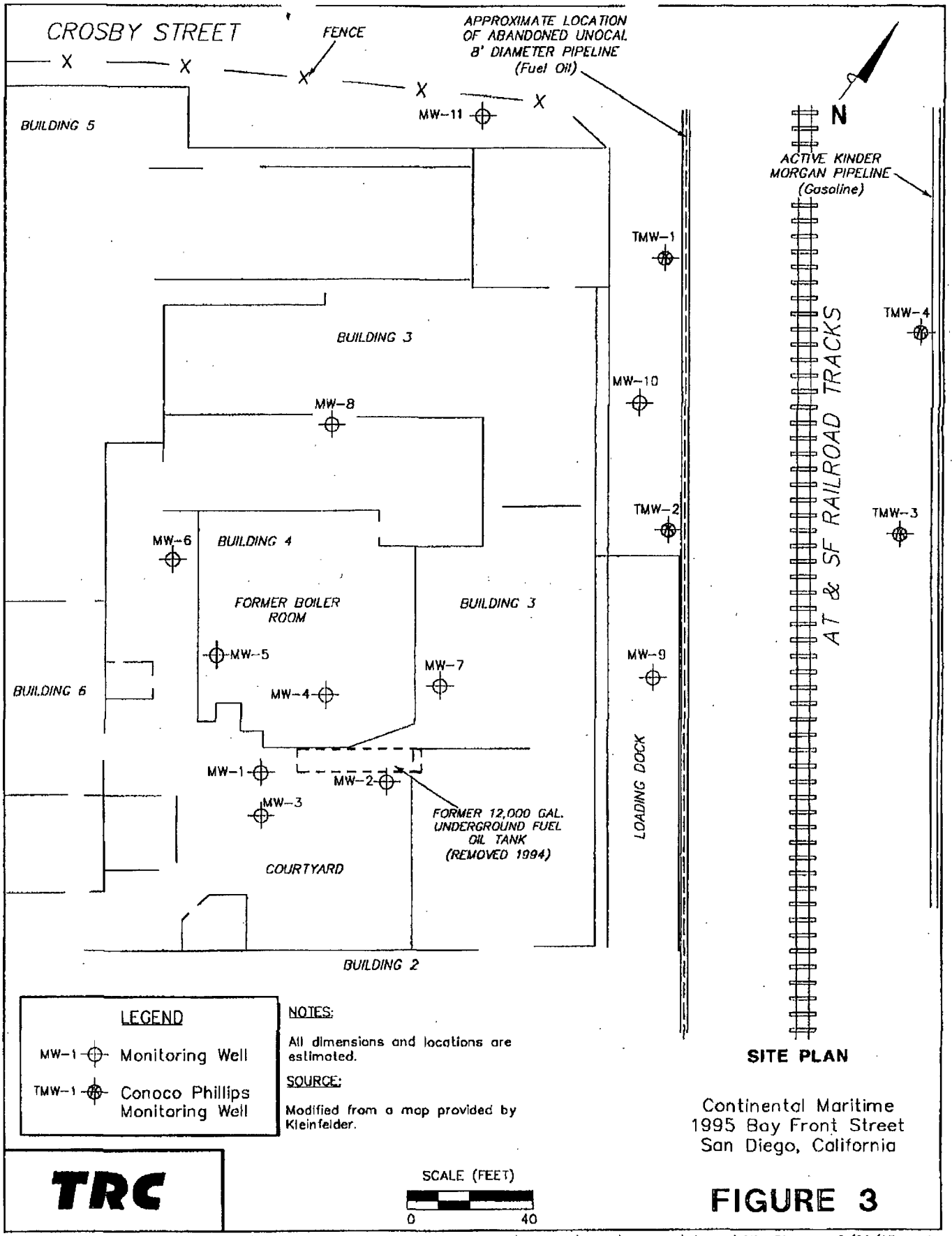
SITE VICINITY MAP

Continental Maritime
1995 Bay Front Street
San Diego, California

TRC

FIGURE 2

600221 - Site Vicinity 5/18/99 rw



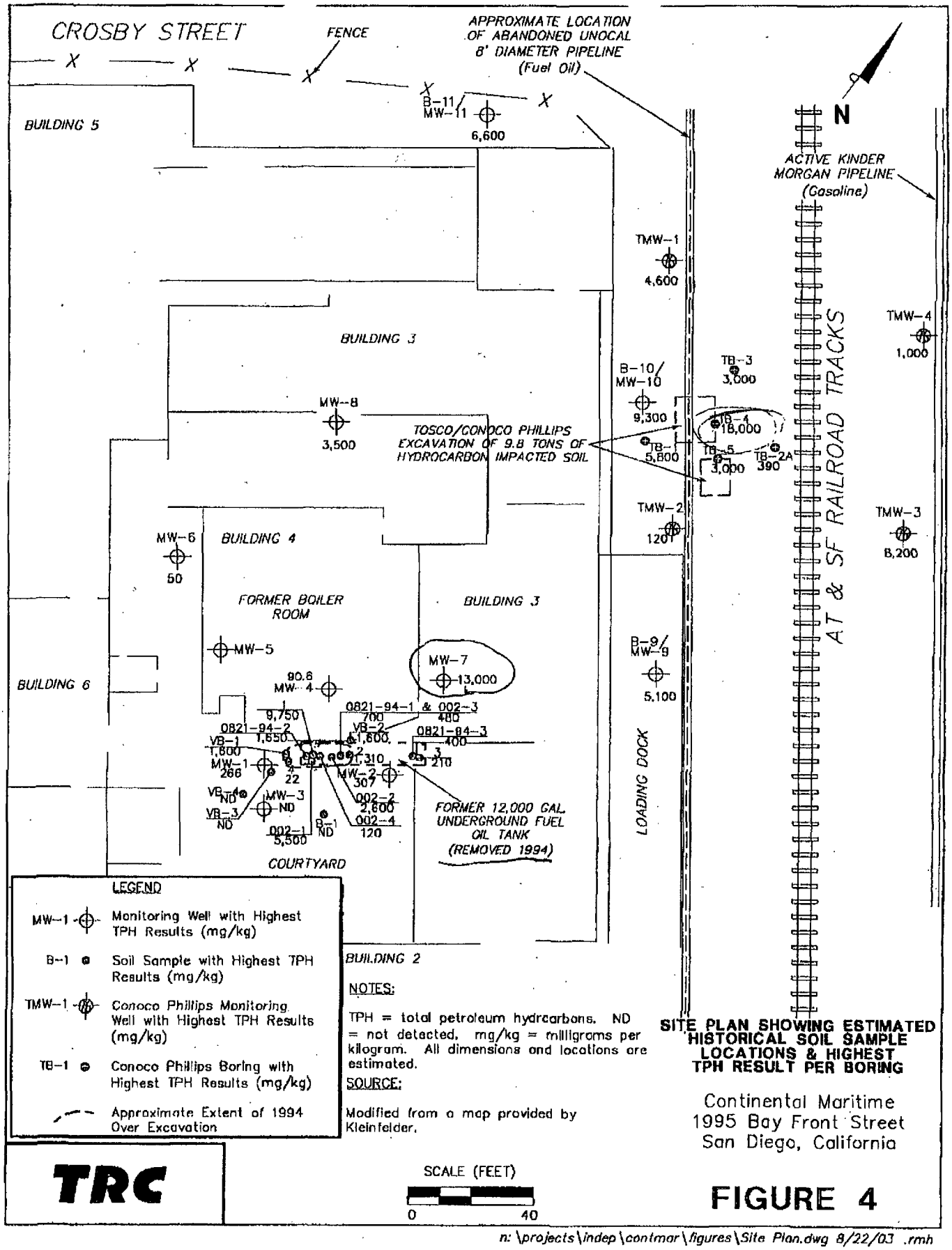
SITE PLAN

Continental Maritime
1995 Bay Front Street
San Diego, California

TRC

FIGURE 3

n: \projects\indep\contmar\figures\Site Plan.dwg 8/22/03 rmh



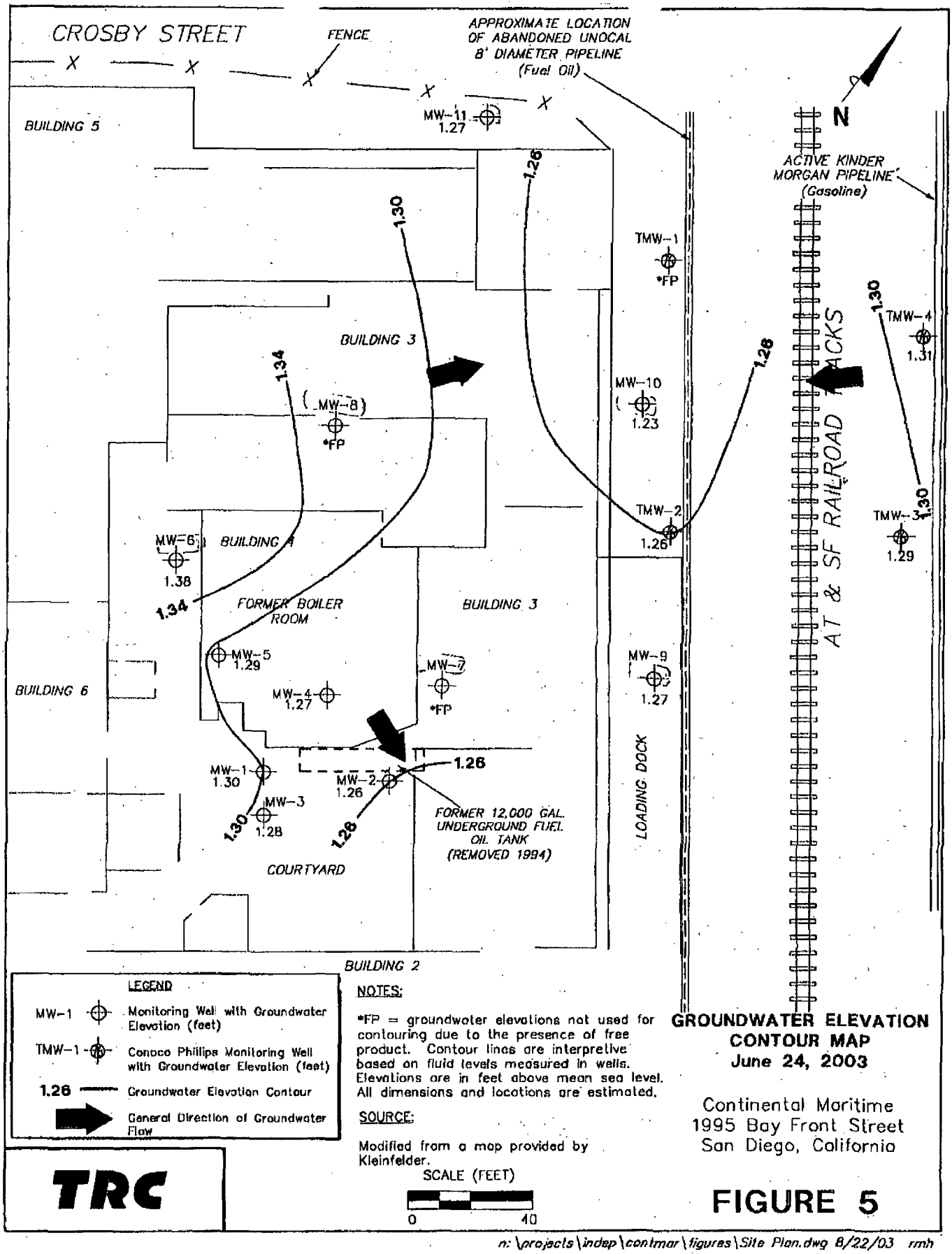
SITE PLAN SHOWING ESTIMATED HISTORICAL SOIL SAMPLE LOCATIONS & HIGHEST TPH RESULT PER BORING

Continental Maritime
1995 Bay Front Street
San Diego, California

TRC

FIGURE 4

n: \projects\indep\contmar\figures\Site Plan.dwg 8/22/03 .rmh



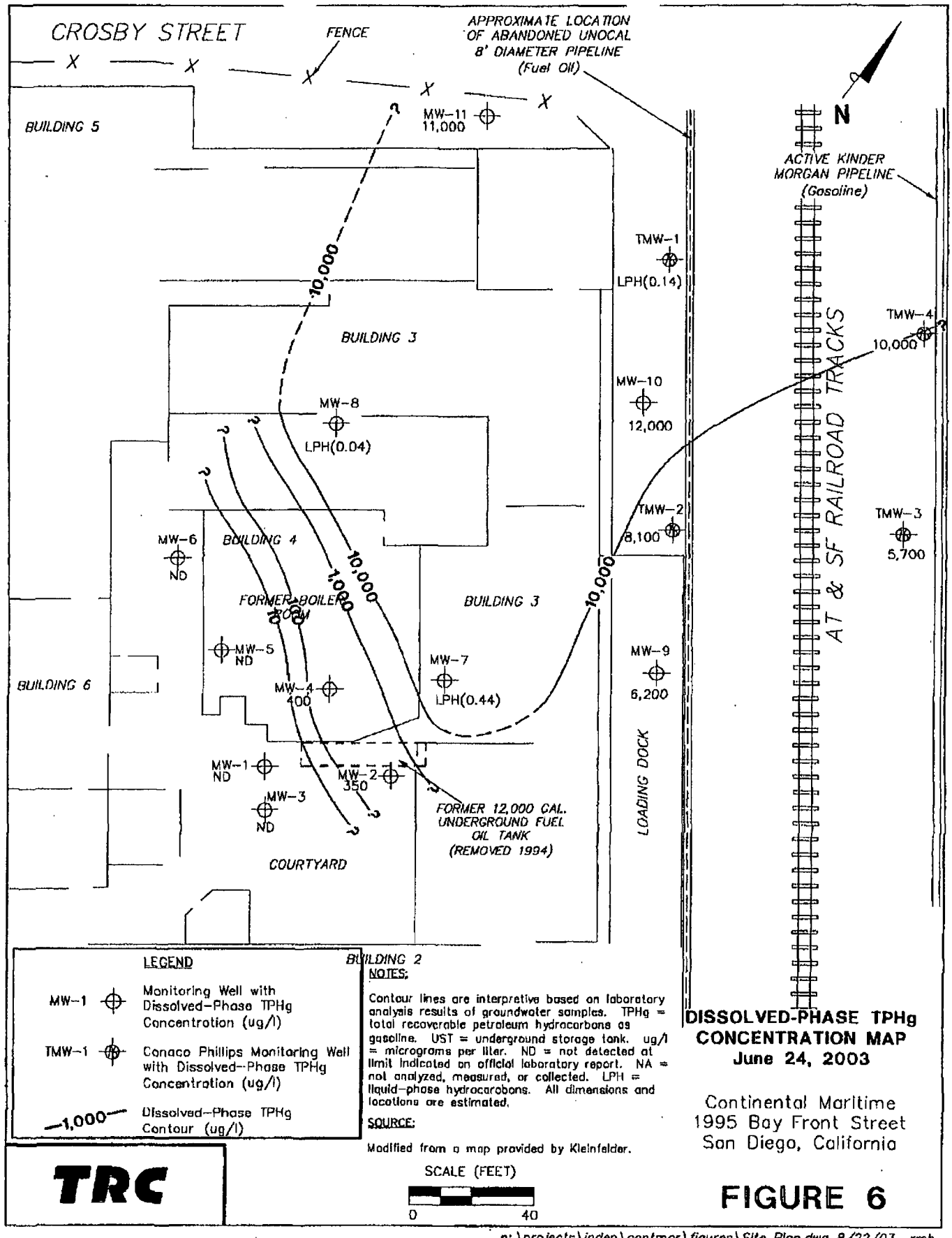
GROUNDWATER ELEVATION CONTOUR MAP
June 24, 2003

Continental Maritime
1995 Bay Front Street
San Diego, California

TRC

FIGURE 5

n:\projects\indep\contmar\figures\Site Plan.dwg 8/22/03 rmh



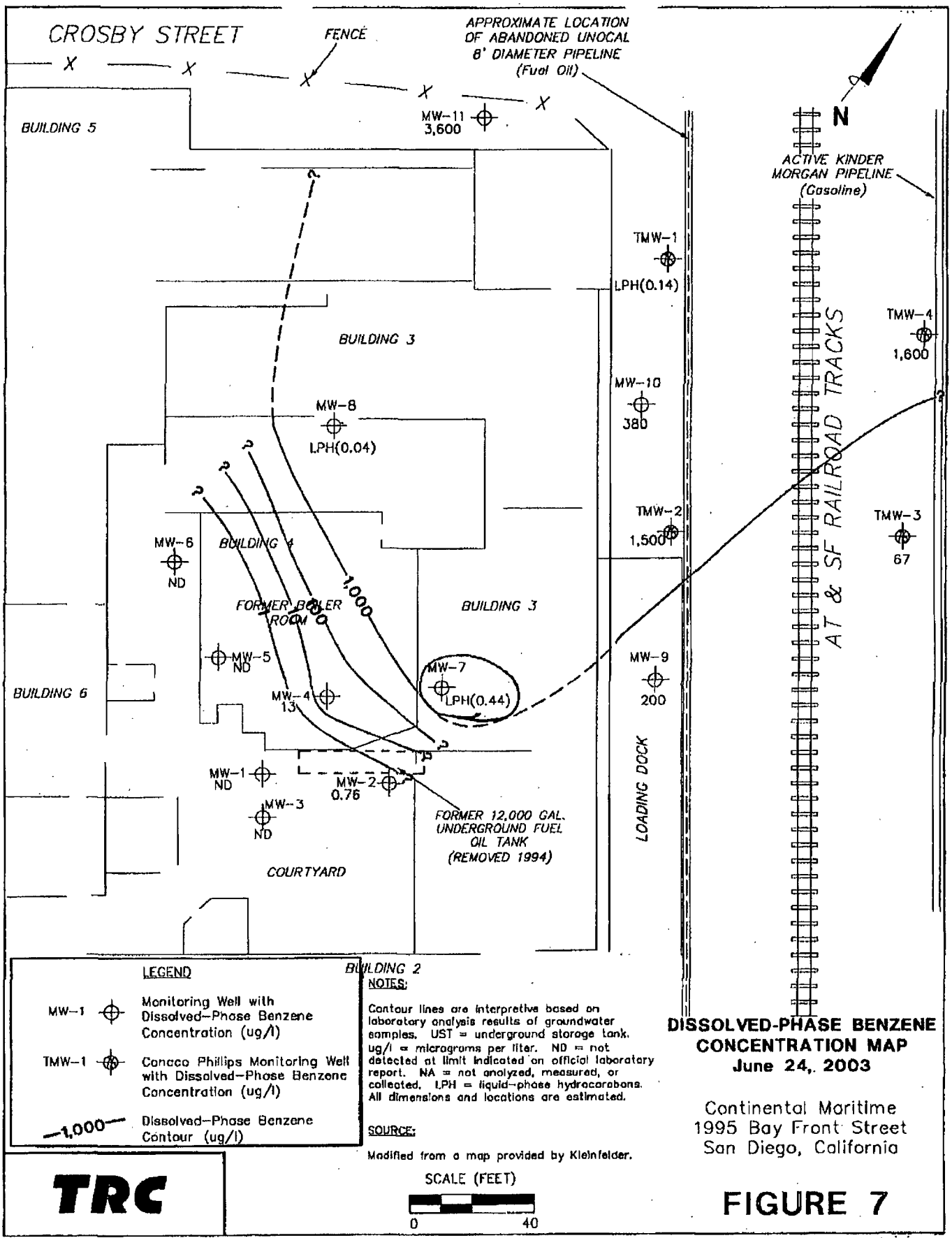
DISSOLVED-PHASE TPHg CONCENTRATION MAP
June 24, 2003

Continental Maritime
1995 Bay Front Street
San Diego, California

TRC

FIGURE 6

n: \projects\indep\contmar\figures\Site Plan.dwg 8/22/03 rmh



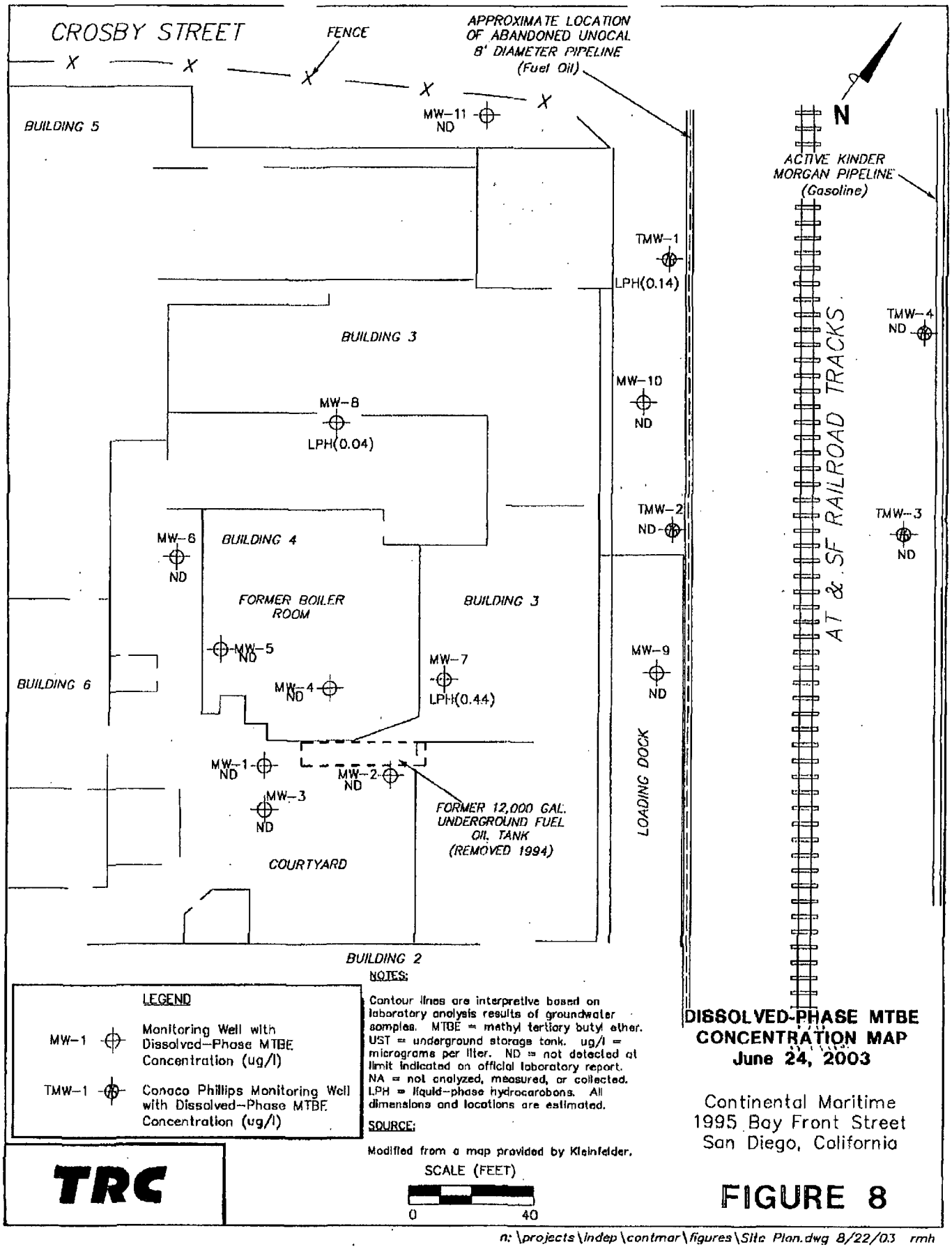
DISSOLVED-PHASE BENZENE CONCENTRATION MAP
June 24, 2003

Continental Maritime
1995 Bay Front Street
San Diego, California

TRC

FIGURE 7

n: \projects \indep \contmar \figures \Site Plan.dwg 8/22/03 rmh


CROSBY STREET
FENCE
APPROXIMATE LOCATION OF ABANDONED UNOCAL 8" DIAMETER PIPELINE (Fuel Oil)
ACTIVE KINDER MORGAN PIPELINE (Gasoline)
N
BUILDING 5
MW-11 ND
TMW-1 LPH(0.14)
BUILDING 3
MW-10 ND
MW-8 LPH(0.04)
TMW-4 ND
AT & SF RAILROAD TRACKS
TMW-2 ND
TMW-3 ND
MW-6 ND
BUILDING 4
FORMER BOILER ROOM
BUILDING 3
MW-5 ND
MW-7 LPH(0.44)
MW-9 ND
BUILDING 6
MW-4 ND
MW-1 ND
MW-2 ND
MW-3 ND
FORMER 12,000 GAL. UNDERGROUND FUEL OIL TANK (REMOVED 1994)
LOADING DOCK
COURTYARD
BUILDING 2
LEGEND
MW-1 Monitoring Well with Dissolved-Phase MTBE Concentration (ug/l)
TMW-1 Conoco Phillips Monitoring Well with Dissolved-Phase MTBE Concentration (ug/l)
NOTES:
Contour lines are interpretive based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. UST = underground storage tank. ug/l = micrograms per liter. ND = not detected at limit indicated on official laboratory report. NA = not analyzed, measured, or collected. LPH = liquid-phase hydrocarbons. All dimensions and locations are estimated.
SOURCE:
Modified from a map provided by Kleinfelder.
SCALE (FEET)
0
40
TRC
DISSOLVED-PHASE MTBE CONCENTRATION MAP
June 24, 2003
Continental Maritime
1995 Bay Front Street
San Diego, California
FIGURE 8
n: \projects \indep \contmar \figures \Site Plan.dwg 8/22/03 rmh

M.C.

County of San Diego

DANIEL J. AVERA
DIRECTOR

LARRY T. AKER
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 85261, SAN DIEGO, CA 92186-5261
(619) 338-2222 FAX (619) 338-2377

SITE ASSESSMENT AND MITIGATION DIVISION

February 25, 1997

Continental Maritime of San Diego, Inc.
Attn: Ms. Tina Best
1995 Bay Front Street
San Diego, CA 92113

Dear Ms. Best:

UNDERGROUND STORAGE TANK (UST) CASE
CONTINENTAL MARITIME OF SAN DIEGO, INC.
AT 1995 BAY FRONT STREET, SAN DIEGO, CA 92113
#H00120-003

This letter confirms the completion of a site investigation and remedial action for the underground storage tank formerly located at the above described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank is greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Section 2721(e)of Title 23 of the California Code of Regulations.

Please contact Mo. Lahsaie at (619) 338-2256 if you have questions regarding this matter.

Sincerely,

CHUCK PRYATEL, Chief
Site Assessment and Mitigation Division

CP:ac

Enclosure

cc: Regional Water Quality Control Board
State Water Resources Control Board, Underground Tanks Program
Dave Deaner, SWRCB, UST Cleanup Fund Program
Sam Williams, Alton Geoscience Environmental Consultants

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION **DATE: FEBRUARY 13, 1997**

Agency Name: County of San Diego, Environmental Health, SAM	Address: PO Box 85261
City/State/ZIP: San Diego, CA 92186-5261	Phone: (619) 338-2222 Fax: (619) 338-2377
Responsible Staff Person: Mo.Lahsaie	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Continental Maritime of San Diego, Inc.		
Site Facility Address: 1995 Bay Front Street, San Diego, CA 92113		
RB LUSTIS Case No: N/A	Local Case No: H00120-003	LOP Case No: N/A
URF Filing Date: 7/10/1992	SWEEPS No: N/A	
Responsible Parties	Addresses	Phone Number
Continental Maritime of San Diego, Inc.	1995 Bay Front Street, San Diego, CA 92113	(619)234-8851

Tank No.	Size in Gal.	Contents	Closed in Place/Removed?	Date
1	2,200	Diesel	Removed	04/29/1994

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Leaky UST system			
Site Characterization complete? Yes	Date Approved By Oversight Agency: 01/02/97		
Monitoring Wells Installed? Yes	Number: eight (8)	Proper Screened Interval? Yes	
Highest GW Depth Below Ground Surface: 9.03 feet	Lowest Depth: 9.75 feet	Flow Direction: South	
Most Sensitive Current Use: None			
Are Drinking Water Wells Affected? No	Aquifer Name: San Diego Mesa HA		
Is Surface Water Affected? No	Nearest SW name: San Diego Bay		
Off-Site Beneficial Use Impacts (addresses/locations): None			
Report(s) on file? Yes	Where is Report(s) Filed? County of San Diego, Environmental Health		

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1	Disposed	4/29/94
Piping	N/A		
Free Product			
Soil	Approx. 200 cubic yards	Disposed at TPS Technologies, Adelanto, CA	03/95
Groundwater			
Barrels			

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS – BEFORE AND AFTER CLEANUP

Contaminant	Soil(ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (Diesel)			<0.5	-	Xylene	0.10	0.073	.0018	.0023
TPH 418.1 (Diesel)	16,000	8,200			Ethylbenzene	0.08	<0.05	<.0005	0.0007
Benzene	<0.025	<0.05	0.0009	<0.0005	Oil & Grease				
Toluene	<0.025	<0.05	<0.0005	.001	Heavy Metals				
Other (O-Pb)	<0.3				Total PNAs				0.0037

Comments:

An unknown UST was discovered underneath the Administration building (building #1) at the subject site. A maximum of 2 feet of a heavy petroleum hydrocarbon was reportedly observed on groundwater beneath the site. Free petroleum product was removed from the groundwater table and approximately 200 cubic yards of petroleum contaminated soil was removed from the former UST excavation area and was disposed at TPS Technologies Inc. Estimated volume of 80 cubic yards of petroleum impacted soil with an average TRPH concentration of 1,886 mg/kg remains in place beneath the railroad tracks on the east side of the former UST excavation. The quality of groundwater has been monitored since the free petroleum product was removed and the groundwater benzene concentration is below laboratory detection limits. Based on the RWQCB memorandum dated April 1, 1996, it appears that the subject site is classified as a "Low Risk Groundwater" site. Based on the reported information there is no apparent threat to public safety and/or environmental health at this site.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes

Site Management Requirements: If remaining petroleum impacted soils are excavated in the future, the soil needs to be managed in accordance with the laws and regulations at that time.

Should corrective action be reviewed if land use changes? Yes

Monitoring Wells Decommissioned: No	Number Decommissioned: None	Number Retained: Eight (8)

List Enforcement Actions Taken: Notice of Corrective Action and Reimbursement Responsibility

List Enforcement Actions Rescinded:

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Chuck Pryatel	Title: Chief Site Assessment and Mitigation	
Signature:		Date: 2-25-97
Hydrogeologist Concurrence: KMH		Date: 2/24/97

VI. RWQCB NOTIFICATION

Date Submitted to RB: 2/13/1997	RB Response: Concurred with no further action	
RWQCB Staff Name: John Odermatt	Title: Associate Engineering Geologist	Date: 02/20/1997

VII. ADDITIONAL COMMENTS, DATA, ETC.

Existing monitoring wells will be decommissioned by responsible party within the next quarter.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

County of San Diego

DANIEL J. AVERA
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
P.O. BOX 85261, SAN DIEGO, CA 92186-5261

SITE ASSESSMENT AND MITIGATION DIVISION

FAX TRANSMITTAL:

TO: John Odermatt

COMPANY: RWQCB
PHONE #:
FAX #:
DATE: 2/13/97 # OF PAGES (Including this page) 5

FROM: Mo. Lahsaie
COMPANY: SAM Division
PHONE #:
FAX #:

COMMENTS:

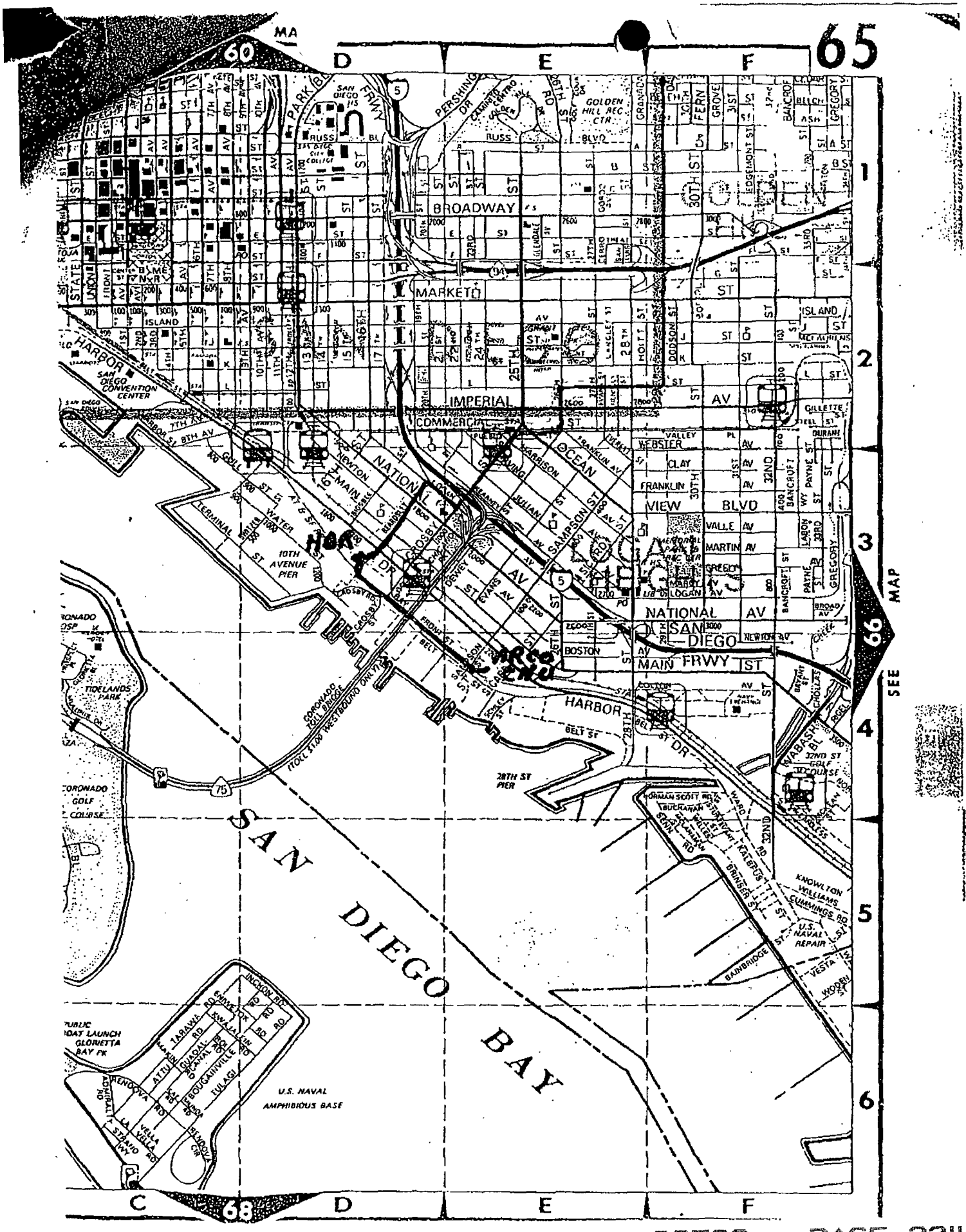
Here is a copy of closure Summary for Continental Maritime release # 003
Please review & let me know if you have additional comments. Thanks Mo. Lahsaie

"Prevention Comes First"

RANSMISSION VERIFICATION REPORT

TIME : 02/13/1997 16:35
NAME : D.E.H-S.A.M.
FAX : 6193382315
TEL : 6193382315

DATE,TIME	02/13 16:33
FAX NO./NAME	95716972
DURATION	00:02:41
PAGE(S)	05
RESULT	OK
MODE	STANDARD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SEE MAP
BROADWAY
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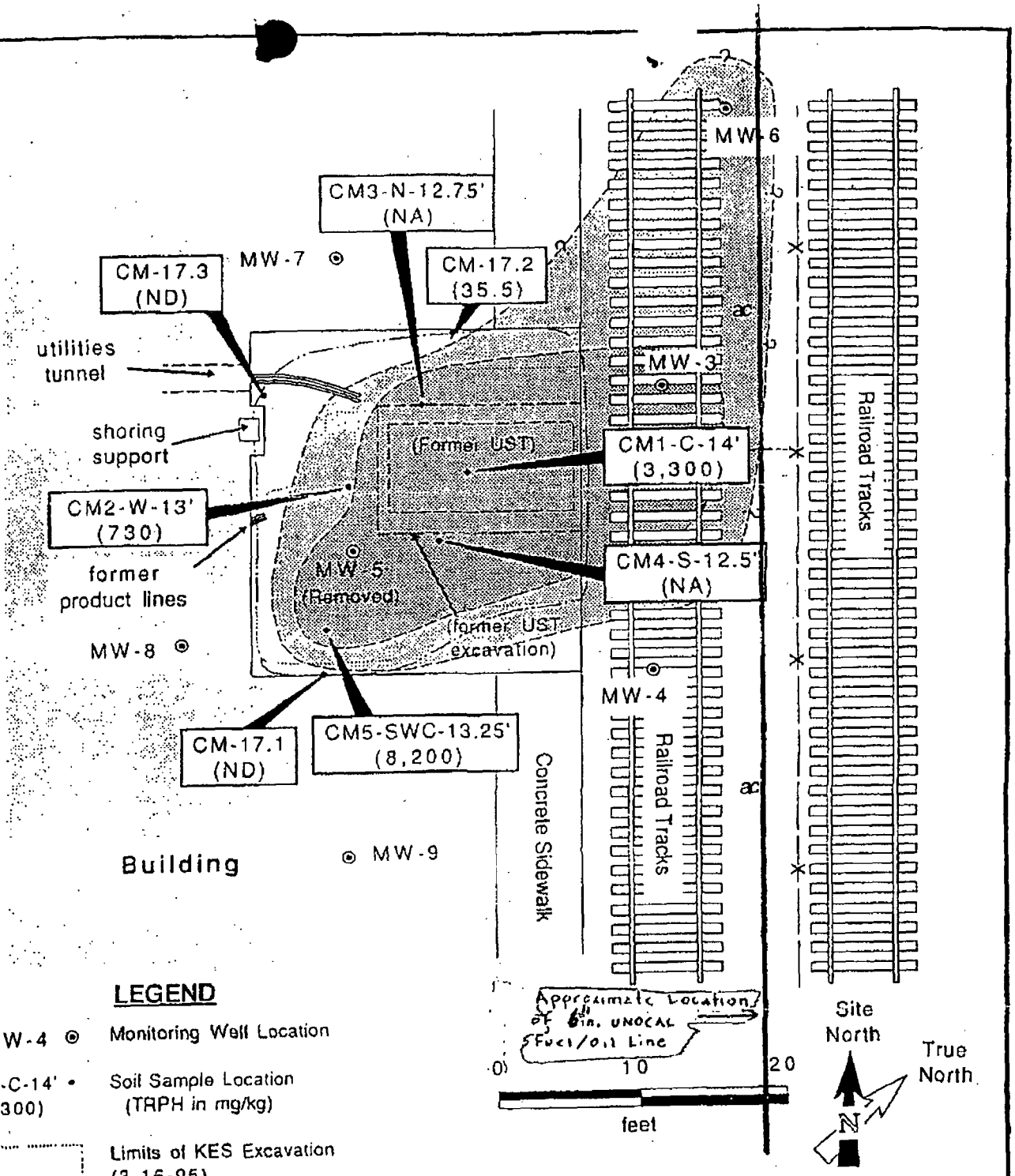
COMMERCIAL
NATIONAL
OCEAN
VIEW
BLVD
NATIONAL
AV
SAN
DIEGO
MAIN
FRWY
ST
HARBOR
SAN DIEGO CONVENTION CENTER
10TH AVENUE PIER
28TH ST PIER
TIDELANDS PARK
CORONADO GOLF COURSE
CORONADO TOLL BRIDGE
SAN DIEGO BAY
U.S. NAVAL AMPHIBIOUS BASE
U.S. NAVAL REPAIR
GOLDEN HILL REC CTR
PERSHING DR
PARK BL
FRWY
ISLAND
WEBSTER
CLAY
FRANKLIN
VALLE
MARTIN
GREEN
LOGAN
BOSTON
NEWTON
MAIN
CROSBY
DEWEY
EVANS
SAMPSON
JULIAN
HARRISON
FRANKLIN
HOLT
DODSON
30TH ST
32ND
BANCROFT
PAYNE
GREGORY
GILLETTE
BELT ST
BELT ST DR
WABASH BL
KNOWLTON
WILLIAMS
CUMMINGS RD
BAINBRIDGE
VESTA
WOOD ST
TARAWA RD
ENIWETOK RD
KWAJALEIN RD
GUADALCANAL RD
BOUGAINVILLE
TULAGI
ATTU
RENDOVA
ADMIRALTY RD
VELLA
STRAND WY
INCHON RD
PUBLIC BOAT LAUNCH GLORIETTA BAY PK
HOR
ARCO END



LEGEND

- MW-4 ⊙ — Monitoring Well Location
- CM1-C-14' • (3,300) — Soil Sample Location (TRPH in mg/kg)
- Limits of KES Excavation (3-16-95)
- Limits of CM Excavation (3-17-95)
- Limits TRPH-Impacted Soil (Concentrations in mg/kg)
- Fence (Property Boundary)
- ac — Asphalt Pavement

Site & Sampling Plan
Continental Maritime
1995 Bay Front Street
San Diego, CA

KAHL ENVIRONMENTAL SERVICES

Figure 2

Project 95-1151

RECEIVED
JUN 14 11 29 AM '95
ENVIRONMENTAL
HEALTH SERVICES

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

RICHARD HAAS
ASSISTANT DIRECTOR

March 15, 2004

Mr. Ron Halik
CP Kelco
2145 East Belt Street
San Diego, CA 92112

Dear Mr. Halik:

VOLUNTARY ASSISTANCE PROGRAM, FILE H02377-009
CP KELCO, LOCATED AT 2145 BELT STREET, SAN DIEGO, CA

The Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), has reviewed the environmental investigation report related to the above-referenced property, prepared by *England Geosystem Environmental Engineering*, dated March 2003. The report summarizes the site investigation activities performed at the referenced location. Provided that the information presented to DEH/SAM was complete, accurate, and representative of existing site conditions, **this agency concurs that the cleanup goals established for the subject site have been met.**

Please be advised that this letter does not relieve the responsible party of any liability under the California Health and Safety Code or the Porter Cologne Water Quality Control Act.

Changes in the present use of the above site *as industrial processing* may require reevaluation to determine if the change will pose a risk to public health.

Thank you for selecting the Department of Environmental Health as your lead agency to assist you with the progress of your environmental project. Please *contact Donn Li Pera* of the Site Assessment and Mitigation Program, at (619) 338-2244, if you require additional assistance.

Sincerely,

GEORGE McCANDLESS, Program Manager
Supervising Environmental Health Specialist
Site Assessment and Mitigation Program

GM/GM:kd

Enclosure: Closure Summary

cc: Regional Water Quality Control Board
Dennis England, England Geosystem
Paul Brown, Port District

WP/H02377-009-304VAPCLO

Case Closure Summary
Non-LOP or Voluntary Assistance Program

III. SITE CHARACTERIZATION AND/OR INFORMATION (Continued) H02377-009

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS - - BEFORE AND AFTER CLEANUP

Contaminant	Soil (ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (Diesel)	5,110	5,110	N.D.@.5	N.D.@.5	Barium	260	260	.07	.07
TRPH (418.1)	15,700	15,700	1.2	1.2	Lead	130	130	.29	.29
TPH (Oil)	5,600	5,600	N/A	N/A	Chromium	26	26	1.0	1.0
Benzene	N.D.@ .005	N.D.@ .005	N.D.@ .0002	N.D.@ .0002	Mercury	.29	.29	.0026	.0026
Toluene	520	520	N.D.@ .0002	N.D.@ .0002	Cadmium	6.6	6.6	N.D.@ .0005	N.D.@ .0005
Ethylbenzene	0.07	0.07	N.D.@ .0002	N.D.@ .0002	1,1-dichloroethene	N.D.@ .005	N.D.@ .005	.022	.022
Xylenes	N.D.@ .01	N.D.@ .01	N.D.@ .0007	N.D.@ .0007	1,2-dichloroethane	N.D.@ .005	N.D.@ .005	.0009	.0009
MTBE	.005	.005	.0008	.0008	Cis-1,2-dichloro-ethene	N.D.@ .005	N.D.@ .005	.003	.003
Benzo(a)anthracene	2.7	2.7	N.D.@.01	N.D.@.01	Tetrachloroethene	.0077	.0077	.013	.013
Benzo(b)-fluoranthene	6.6	6.6	N.D.@.01	N.D.@.01	Dichlorodifluoro-methane	N.D.@ .005	N.D.@ .005	N.D.@ .0005	N.D.@ .0005
Benzo(g,h,i)-perylene	8.8	8.8	N.D.@.01	N.D.@.01	1,1-dichloroethane	N.D.@ .005	N.D.@ .005	.003	.003
Butylbenzyl-phthalate	.87	.87	N.D.@.01	N.D.@.01	Chloroform	N.D.@ .005	N.D.@ .005	.005	.005
Benzo(k)-fluoranthene	3.0	3.0	N.D.@.01	N.D.@.01	1,1,1-trichloroethane	N.D.@ .005	N.D.@ .005	N.D.@ .0005	N.D.@ .0005
Acenaphthene	N.D.@ .02	N.D.@ .02	N.D.@.01	N.D.@.01	Trichloroethene	N.D.@ .005	N.D.@ .005	.008	.008
Chrysene	5.0	5.0	N.D.@.01	N.D.@.01	Vinyl chloride	N.D.@ .005	N.D.@ .005	N.D.@.01	N.D.@.01
Pyrene	3.9	3.9	N.D.@.01	N.D.@.01	Formaldehyde	.41	.41	N/A	N/A
Phenanthrene	N.D.@ .005	N.D.@ .005	N.D.@.01	N.D.@.01	Phenol	N.D.@ .005	N.D.@ .005	N.D.@.01	N.D.@.01
Naphthalene	N.D.@ .005	N.D.@ .005	N.D.@.01	N.D.@.01	Styrene	N.D.@ .005	N.D.@ .005	N.D.@ .005	N.D.@ .005
Fluorene	N.D.@ .005	N.D.@ .005	N.D.@.01	N.D.@.01	Acetone	0.21	0.21	N.D.@ .025	N.D.@ .025
Benzo(a)pyrene	5.1	5.1	N.D.@.01	N.D.@.01	Chlorobenzene	.037	.037	N.D.@ .005	N.D.@ .005
Fluoranthene	2.8	2.8	N.D.@.01	N.D.@.01	Isopropylbenzene	N.D.@ .005	N.D.@ .005	N.D.@ .005	N.D.@ .005
1-methylnapthalene	N.D.@ .005	N.D.@ .005	N.D.@.01	N.D.@.01	n-butylbenzene	N.D.@ .005	N.D.@ .005	N.D.@ .005	N.D.@ .005
Ideno(1,2,3-cd)pyrene	3.9	3.9	N.D.@.01	N.D.@.01	n-propylbenzene	N.D.@ .005	N.D.@ .005	N.D.@ .005	N.D.@ .005
Acenaphthylene	N.D.@ .005	N.D.@ .005	N.D.@.01	N.D.@.01	Trimethylbenzenes	N.D.@ .005	N.D.@ .005	N.D.@ .005	N.D.@ .005
Sec-butylbenzene	N.D.@ .005	N.D.@ .005	N.D.@.01	N.D.@.01	1,3,5-trimethylbenzene	N.D.@ .005	N.D.@ .005	N.D.@ .005	N.D.@ .005
Arsenic	.13	.13	N.D.@.10	N.D.@.10					

03132 PAGE 2259

Case Closure Summary
Non-LOP or Voluntary Assistance Program

III. SITE CHARACTERIZATION AND/OR INFORMATION (Continued) H02377-009

Comments:

Case initiated by Kelco as a result of lease negotiations with the San Diego Port District for portions of Kelco's operations on Port land. Phase I and II investigations were conducted by different consultants for all the operations previously owned by Kelco.

A report prepared by England Geosystem, dated March 2003, summarizing the Phase I and Phase II investigations was submitted and identified three plants: Plant A and Plant B are algin operations and are now owned by ISP (International Specialty Products); Plant C is a biogum operation and co-generation plant currently owned by CP Kelco.

The DEH was asked to comment only on the Port lease property, which is south of Belt Street and represents Plants A and C.

Based on the Phase I and Phase II investigations, 29 areas were identified to be of environmental concern as a result of actual chemical contamination detected, or the potential for contamination from past or current chemical usage and storage. The DEH also identified chlorinated solvents as a potential onsite issue requiring additional evaluation. Areas investigated included:

Area	Description	Contaminants of Concern	Comments
1	Former 8000G Oil AST next to cooling towers	TPH, PAH's	Probable Bunker C. No VOC's detected.
2	Stained surface near cooling tower #1	no data	Staining assumed to be heavy oil.
3	Former 300G diesel AST and generator near cooling towers	TPH	Tank removed 1991 and closed 1992 with DEH oversight.
4	Stained concrete in compressor bldg.	TPH (oil), PAH's	TPH(Oil) only in soil, PAH's were not detected.
5	Former transformers with PCB's next to compressor bldg.	PCB's	EPA approved Kelco cleanup
6	Current chemical unloading station near bldg. L-15	TPH, VOC's	Low concentration of oils and PAH's detected no documented releases.
7	Former 35,000G diesel AST	No data	Installed 1969, removed 1973. No documented releases.
8	Former 81,000G, 20,000 and 15,000G calcium chloride and formalin AST's	Calcium chloride, formaldehyde	Tank located on concrete pad with no containment. Kelco personnel believed the tank may have leaked. Tank repaired, currently used as a waste water Equalization tank.
9	Former location of 7 AST's used for formalin, acid and ammonia, north of bldg. I-12	Formaldehyde, hydrochloric acid, sulfuric acid and ammonia	Low levels of formaldehyde (.41 mg/kg) only detected in soil.
10	Two or three former bunker C fuel UST's east side of bldg. K-13	TPH (oil), PAH's	Abandoned in place in 1967. TPH and TRPH not detected in 8 samples from 6 borings.
11	Former fuel unloading location between bldgs. I-14 and J15	TPH (various fuels)	No detected TPH in 2 samples from one boring.
12	Former 120G or 500G gasoline UST	TPH, VOC's	Tank removed in 1982. No significant TPH detected.
13	Former 5,000G sulfuric acid AST, current 1,500G sodium hypochlorite AST located west of bldg. J-15	Sulfuric acid, sodium hypochlorite	No soil samples collected.
14	Former 400G gasoline/fuel oil UST north of bldg. G-17	TPH (gas, oil), PAH's and VOC's	Removed June 1986 with the DEH oversight.
15	Oil stained concrete in machine shop	TPH (oil), PAH's	Minor staining no soil samples collected.
16	Two former oil AST's located south of the machine shop	TPH (oil), PAH's	Low levels of oil (13 mg/kg) detected in one of six samples from 4 borings.
17	Eleven former N,N-Dimethyl-formamide (DMF) and methanol AST's from 1,000 to 10,000G; one 68,000G diesel AST located west of bldg. F-12	DMF, Formaldehyde, methanol, TPH and PAH's	AST's removed 1982. No known releases.

Case Closure Summary
Non-LOP or Voluntary Assistance Program

III. SITE CHARACTERIZATION AND/OR INFORMATION (Continued) H02377-009

Comments continued:

Area	Description	Contaminants of Concern	Comments
18	Suspected former UST between bldgs. F-16 and G-17	No data	It was determined tank was not installed.
19	MT shop area, west end of bldg. F-16	Hydraulic oil, VOC's, PAH's inks	TPH not detected, low levels of PAH's detected
20	Possible stained surface	TPH (oil, diesel)	No soil samples collected due to auger refusal
21	Former location of two 12,000G formalin AST's in the area of the cogeneration plant	Formaldehyde	No known releases. Removed 1982.
22	Stained inside boiler bldg. F-12	TPH, diesel, Oil, PAH's	Stained concrete pad below non-operational pump.
23	Stained surface southwest of bldg. F-12	Oil, PAH's	Low levels of TPH and PAH's detected in soil.
24	Stained concrete former waste oil storage area east of bldg. F-12, also used to store petroleum based solvents	TPH (Oil), PAH's, VOC's	TPH not detected in all soil samples.
25	Stained concrete surface in tow motor shop east of bldg. F-12	TPH (oils), PAH's, VOC's	Forklift and facility equipment maintenance. Minor staining noted.
26	Former 550G lube oil AST and current lube oil AST	TPH (oil), PAH's	Tanks removed in 1992. No TPH or TRPH detected in soil.
27	Two former 500G diesel AST's	TPH, PAH's	Levels of TPH/TRPH as high as 15,700 mg/kg detected in soil.
28	Two current 5,000G formalin AST's former 5,000G sulfuric acid AST	Formaldehyde, sulfuric acid	Formaldehyde not detected in 3 samples from 2 borings.
29	Facility sewer and storm drain piping	Isopropyl alcohol, TPH, VOC's and PAH's	Prior to 1970, process wastewater was discharged to the bay. In 1970 all discharge water was re-routed to sewer. Video inspection of the sewer lines conducted in 1990. Repairs were made as needed.
30	Chlorinated solvents	Tetrachloroethene (PCE), 1,1,1-Trichloroethane (TCA) Trichloroethene (TCE) 1,1-Dichloroethane (DCA) cis-1,2-Dichloroethene (DCE)	England Geosystem concludes that chlorinated solvents detected in well OW-202 represent a release from Propulsion Controls at 1340 Sampson St. which is upgradient of Port Lease property; and solvents detected on Port Lease property were from use of aerosol cans, or paint-related solvents.

In their March 2003 report, England Geosystem requested that no further action be required for most areas listed above and the remaining areas be allowed to defer work. The request to defer work was based on the inaccessibility of the area due to the presence of structures and the low risk and mobility of the contaminant. Additional work was requested by the DEH for chlorinated solvents and another report was submitted by England Geosystem, dated October 2003. Based on the findings and conclusions of the England Geosytem reports the DEH concurs with their recommendations as follows:

- Require no further action for areas: 1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 15, 16, 18, 19, 21, 22, 23, 25, 26, 27, 28 and 29;
- Defer investigation until current operations and infrastructure change for areas: 7, 13, 17 and 20.
- Require no bay sediment sampling.

  Bay sediment sampling was discussed but the DEH deemed it unnecessary as part of the investigation. Operations and chemical usage at the site do not appear to pose a threat to bay sediments and the cost of sampling and analysis seemed unwarranted.
- Require no further investigation of chlorinated solvents.

  Chlorinated solvents were detected in groundwater in areas 10, 12, 23 and 24 of the Port lease property. Kelco has no history of significant chlorinated solvent use. Solvents detected on Port lease property in groundwater are below action levels and determined to be from use of aerosol cans of solvents, or paint related solvents. These levels do not pose a threat to the Bay or public health.

  The highest concentrations of solvents were detected in wells OW-202 and OW-102, which are located on the up-gradient side of the property near Harbor Drive and is not Port lease property. The data suggests an offsite source, such as Propulsion Controls, where chlorinated solvents are used.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

Case Closure Summary
Non-LOP or Voluntary Assistance Program

IV. CLOSURE

H02377-009

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?	Yes
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?	Yes
Does corrective action protect public health for current land use? Yes Case review based on current use as an industrial processing plant.	
Are there other issues DEH needs to follow up on: None	
Site Management Requirements: None	
Should corrective action be reviewed if land use changes? Yes	
List Enforcement Actions Taken: None	
List Enforcement Actions Rescinded: None	
Is this account up to date and current?: Yes	

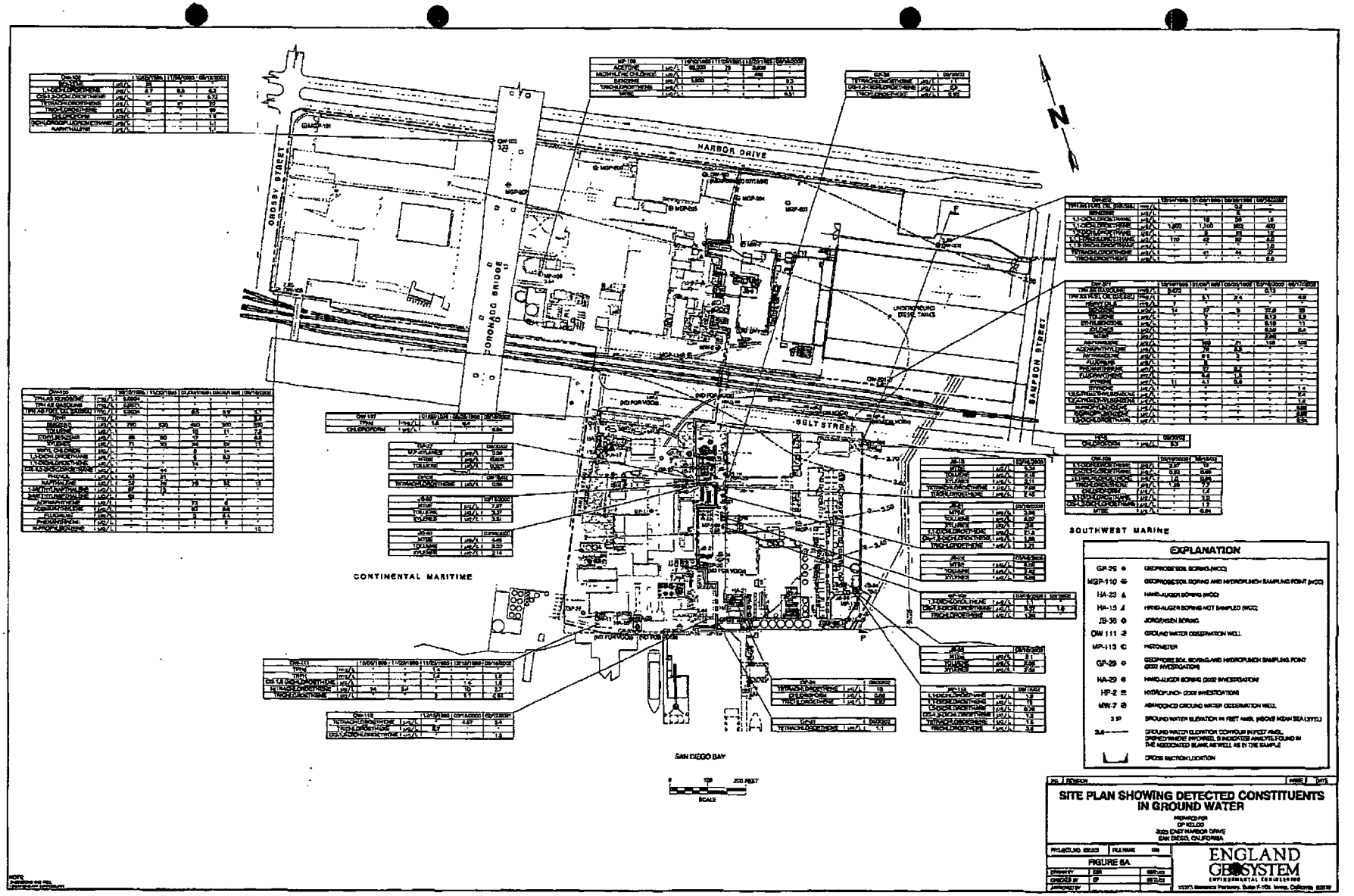
V. LOCAL AGENCY REPRESENTATIVE DATA

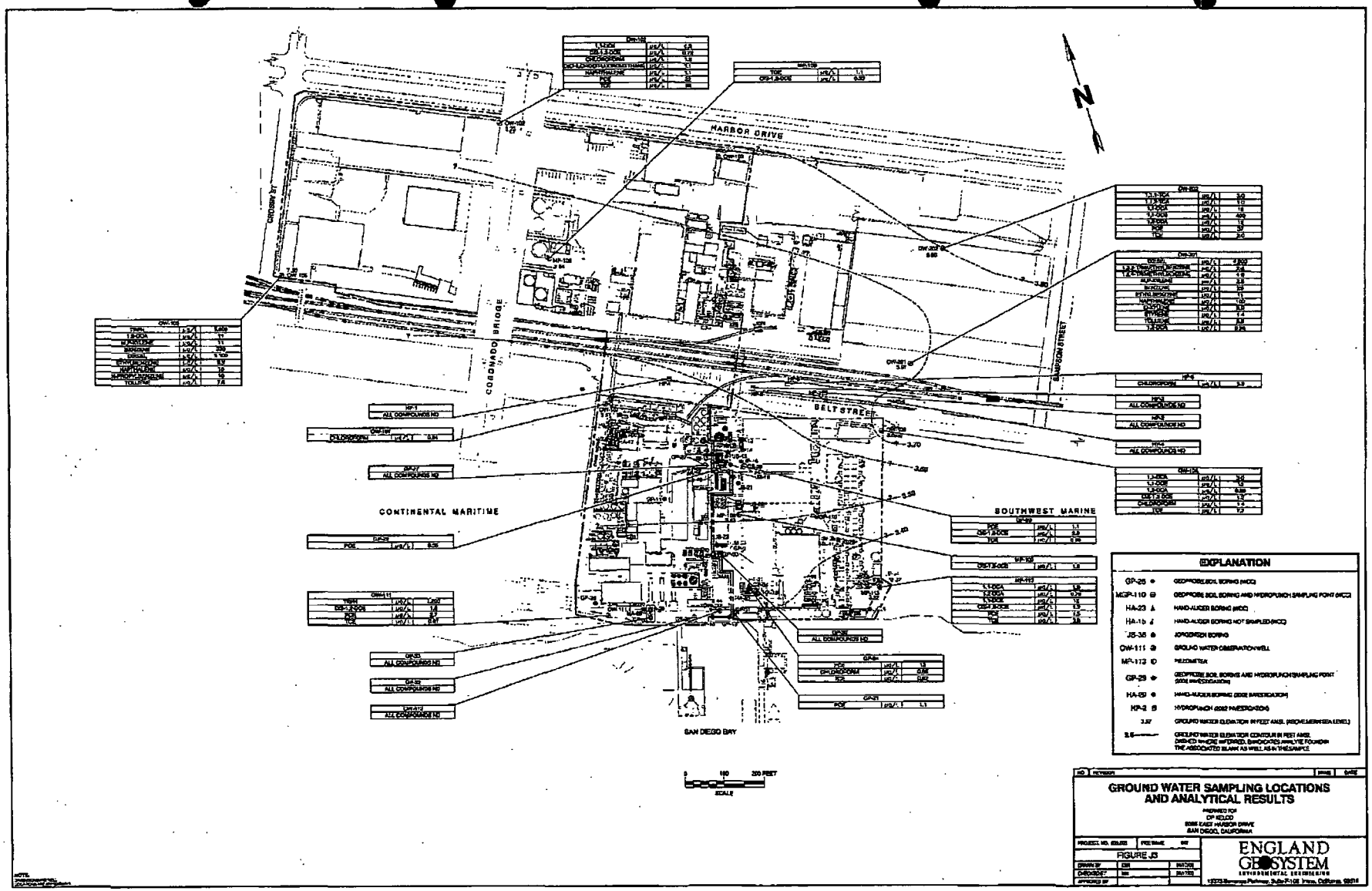
Name: Tony Sawyer	Title: Hydrogeologist Land and Water Quality Division
Signature: Tony V. Sawyer	Date: 3-16-04

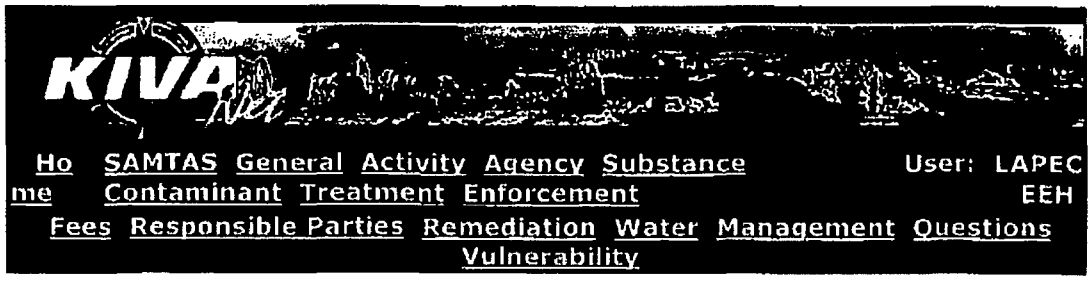
VI. RWQCB NOTIFICATION

Date Submitted to RWQCB: N/A VAP case	RWQCB Response:	
RWQCB Staff Name:	Title:	Date:

VII. ADDITIONAL COMMENTS, DATA, ETC.


HARBOR DRIVE
CROSSY STREET
CORONADO BRIDGE
SAMPSON STREET
BELT STREET
CONTINENTAL MARITIME
SOUTHWEST MARINE
SAN DIEGO BAY
N
EXPLANATION
GP-26 GEOPROBE SOIL BORING (WCC)
MGP-110 GEOPROBE SOIL BORING AND HYDROPUNCH SAMPLING POINT (WCC)
HA-23 HAND-AUGER BORING (WCC)
HA-15 HAND-AUGER BORING NOT SAMPLED (WCC)
JB-38 JORGENSEN BORING
OW 111 GROUND WATER OBSERVATION WELL
MP-113 PIEZOMETER
GP-29 GEOPROBE SOIL BORING AND HYDROPUNCH SAMPLING POINT (2002 INVESTIGATION)
HA-29 HAND-AUGER BORING (2002 INVESTIGATION)
HP-2 HYDROPUNCH (2002 INVESTIGATION)
MW-7 ABANDONED GROUND WATER OBSERVATION WELL
3.5' GROUND WATER ELEVATION IN FEET AMSL (ABOVE MEAN SEA LEVEL)
2.6 GROUND WATER ELEVATION CONTOUR IN FEET AMSL. DEPRESSIONS INFERRED. D INDICATES ANALYTE FOUND IN THE ASSOCIATED BLANK AS WELL AS IN THE SAMPLE
CROSS SECTION LOCATION
SCALE
SITE PLAN SHOWING DETECTED CONSTITUENTS IN GROUND WATER
PREPARED FOR
OP KELCO
2020 EAST HARBOR DRIVE
SAN DIEGO, CALIFORNIA
FIGURE 6A
ENGLAND GEOSYSTEM
ENVIRONMENTAL CONSULTING


HARBOR DRIVE
CORONADO BRIDGE
BELT STREET
SAMPSON STREET
CONTINENTAL MARITIME
SOUTHWEST MARINE
SAN DIEGO BAY
N
EXPLANATION
GP-25 GEOPROBE SOIL BORING (WCC)
MGP-110 GEOPROBE SOIL BORING AND HYDROPUNCH SAMPLING POINT (WCC)
HA-23 HAND-AUGER BORING (WCC)
HA-15 HAND-AUGER BORING NOT SAMPLED (WCC)
JS-35 JORGENSEN BORING
OW-111 GROUND WATER OBSERVATION WELL
MP-113 PIEZOMETER
GP-29 GEOPROBE SOIL BORING AND HYDROPUNCH SAMPLING POINT (2002 INVESTIGATION)
HA-29 HAND-AUGER BORING (2002 INVESTIGATION)
KP-2 HYDROPUNCH (2002 INVESTIGATION)
3.57 GROUND WATER ELEVATION IN FEET AMSL (ABOVE MEAN SEA LEVEL)
2.5 GROUND WATER ELEVATION CONTOUR IN FEET AMSL. DASHED WHERE INFERRED. BANDICATES ANALYTE FOUNDIN THE ASSOCIATED BLANK AS WELL AS IN THE SAMPLE
GROUND WATER SAMPLING LOCATIONS AND ANALYTICAL RESULTS
FIGURE J3
ENGLAND GEOSYSTEM
ENVIRONMENTAL ENGINEERING



General Incident Information

Edit

Name	SOUTHWEST MARINE INC		
Address	1427 SAMPSON ST, SAN DIEGO CA 92113	**APN**	7600220600
Contact	KEN PETERSON	**Phone**	619-238-1000
Historical Name	SOUTHWEST MARINE - DREDGING		
Number	H09689 **Incident** 1 **Priority** LOP / LOW - MINOR TO NO IMPACT OF WATER		
Funding	PRIVATE - VAP		
Case Type	GW WITH NO BENEFICIAL USE DESIGNATION		
Release Type			
Release Cause			
Release Source			
Release Stopped			
Staff Assigned	FRED ALLEE		
Status	CLOSED CASE	**Status Date**	17-Jul-1993
Lead Agency	DEH/SAM	**Lead Agency Date**	04-May-1992

Fees

Fee Code	Description	Fee Amount	Amount Due
There are no fees for this application.			

MTBE Priority System

Investigation		
Start Date	**Investigation Priority**	**Date Prioritized**
Remediation		
Start Date	**Cleanup Priority**	**Date Prioritized**

FILE WORK SHEET 2 of 2

H09689-001
T75

File Folder 1 of 2 See also Folder 2
Southwest Marine Incorporated - Dredging Project

DATE	COMMENTS	INITIAL
4-13-93	ELECTRONICAL MAIL EXCHANGE W/M. STRESS (LEA-SW)	
	SEE FILE FOR RECORD.	
7-12-93	REVIEWED 5-28 + 6-28-93 SUBMITTALS (CLOSED)	
	SAMDATA FILE. SPOKE WITH C. TAMAKI (RWQCB)	
7-13-93	FINAL E-MAIL TO K. CALVERT + M. STRESS	
	(CSD - SW LEA). SEE FILE FOR RECORD.	
	RETURNED FILE TO MAIN SYSTEM.	

Telecom with Mr. John Rockefella and Larry Bodenhamer on July 30, 1992

RE: Southwest Marine bay sediments removal. H09689-001 *
Location: Sampson and Main street. Foot of Sampson Street.

Mr. Rockefella indication approximately 3000 yards of bay sediment will be dredged from San Diego Bay. The Sediments will be stockpiled, to dry, on shore to dry for 3 to 6 months. Mr Rockafella indicated the City of San Diego wants to have HMMD concurrance prior to issuance of a stockpile permit.
City of San Diego, requires a permit for stockpile due to contamination.
During the above telecom, Bodenhamer said the following:

1. Bodenhamer said all data will need to be reviewed.Mr. Rockefella indicated the sediments have tested as "not hazardous waste" He will forward all test data with request package.
2. Bodenhamer recommended to John that he send a completed HMMD assistance form and 160.00 to HMMD. Bodenhamer indicated he will need to send all reports and any other data acrewed so far. Bodenhamer said a work plan for stockpiling soil should be included with his submittal.
   Contact person with San Diego: (Bijan Shakiba 236-6778).
3. Bodenhamer promised to and did fax a copy of the HMMD assistance form for Mr. Rockafella to complete on 7-30-92.

~~Phone: 231-8302~~ 238-1000 X4230
~~FAX: 557-4230~~

* OTHER Possible H # = H23049 - ~~Port District~~ - S.W. Marine
H 32800 - Port District
H09689 - S.W. Marine "Dredging"

8-3-92 Left message with Mr. Rockefellow explaining Dana Austin had already initiated project review w/HMMD. Asked him to call w/update.

RECORD OF TELEPHONE CONVERSATION

DATE: 5-12-92 TIME: 1000

REGARDING: SOUTHWEST MARINE - DREDGING PROJECT

TYPE: H75 SITE ID: H09689-001

PERSON CALLED: DANA AUSTIN PHONE NO: 238-1000 x2043

REPRESENTING: SOUTHWEST MARINE INC.

CONVERSATION: INTRODUCED MYSELF TO MR. AUSTIN AS HIS POINT OF HMMD CONTACT FOR THE DREDGING PROJECT. I INDICATED TO HIM THAT I HAD COMPLETED A REVIEW OF APPROXIMATELY ONE-HALF OF THE SUBMITTAL. i ASKED HIM WHY HE AND HIS CONSULTANTS HAD OPTED NOT TO ISSUE THE REPORT WITH CHAIN-OF-CUSTODY DOCUMENTS AND LAB DATA SHEETS. HE INDICATED THAT THE SAMPLES OBTAINED IN-SITU WOULD NOT BE USED TO CLASSIFY THE WASTE. INSTEAD, HE INDICATED THAT THE CONTAMINATED MATERIAL WOULD BE HANDLED AS STATED IN HIS NOTE TO THE ASSISTANCE APPLICATION FOLLOWING THE DREDGING OPERATIONS. FOLLOWING DEWATERING THE MATERIAL WILL BE SAMPLED AS A STOCKPILE ACCORDING TO CURRENT HMMD GUIDELINES. DISPOSAL OPTIONS WILL THEN BE EXPLORED. MR. AUSTIN SUPPLIED THE FOLLOWING TIMELINE:

DATE	PROPOSED ACTIVITY
PRESENT	AWAITING RESPONSE FROM ARMY CORPS OF ENG. ON DREDGING PROJECT
6-1-92	RECEIPT OF DREDGING PERMIT FROM ARMY CORPS OF ENGINEERS
6-1 TO 6-5-92	DEMOLITION OF EXISTING IMPROVEMENTS LOCATED ADJACENT TO DREDGING PROJECT
6-15-92	COMMENCEMENT OF DREDGING PROJECT
7-?-92	MATERIALS DEWATERING AND STOCKPILE SAMPLING

NAME: FREDERIC A. ALLEE SIGNED: Fred A. Allee

AGENCY - COUNTY OF SAN DIEGO; DEPARTMENT OF HEALTH SERVICES; ENVIRONMENTAL HEALTH SERVICES; HAZARDOUS MATERIALS MANAGEMENT DIVISION; SITE ASSESSMENT AND MITIGATION PROGRAM

405 00009

Bechtel

50 Beale Street
San Francisco, CA 94105-1895
Mailing address: P.O. Box 193965
San Francisco, CA 94119-3965

RECEIVED
Oct 5 11 16 AM '93
ENVIRONMENTAL
HEALTH SERVICES

September 30, 1993

H09689-001

Fred Allee
San Diego County Dept. of Health Services
Environmental Health Services, Site Assessment Mitigation Unit
LOC S48 MSD 561
PO Box 85261
San Diego, CA 92186-5261

Dear Mr. Allee:

As you know, Bechtel Environmental, Inc. (BEI) is assisting the EPA in assessing potential hazardous waste contamination at various abandoned sites and operating facilities. During our telephone conversation on July 12, you provided information regarding dredging operations at Southwest Marine, Inc. in San Diego.

Our contract with the EPA requires documentation of certain telephone conversations concerning the investigation. If a telephone conversation provides information that is important to our analyses, the EPA requires that we obtain concurrence on the accuracy of the information provided.

Attached for your review is a draft of the Contact Report documenting our telephone conversation. Please review it and make any changes you feel necessary. Please sign and date the form on the "Contact Concurrence" line and return the form to me as soon as possible with your comments in the self-addressed, stamped envelope provided.

I appreciate your assistance. If you have any questions, or wish to discuss this contact report further, please do not hesitate to call me at (415) 768-1098.

Sincerely,

Maynard Geisler

Maynard Geisler
Site Leader

Attachment

Enclosure

CONTACT REPORT

AGENCY/AFFILIATION: San Diego Department of Health Services		
DEPARTMENT: Environmental Health Services, Site Assessment Mitigation Unit		
ADDRESS: LOC S48 MSD 561, PO Box 85261	CITY: San Diego	
COUNTY: San Diego	STATE: CA	ZIP: 92186-5261
CONTACT(S)	TITLE	PHONE
Fred Allee		(619) 338-2222
BEI PERSON MAKING CONTACT: Maynard Geisler MG		DATE: 7/12/93
SUBJECT: Dredging at Southwest Marine, Inc.		
SITE NAME: Southwest Marine	EPA ID: CAD 981172554	

DISCUSSION:

Approximately 13,000 cubic yards of sediment were dredged from two areas near Pier 1 at Southwest Marine, Inc. The purpose of the dredging was to allow Southwest Marine, Inc. to accommodate larger ships. More dredging is planned in a few years. Approximately 5,000 cubic yards of the dredge material was disposed at an ocean dump site under permit by the US Army Corps of Engineers. The remaining 8,000 cubic yards of dredge material was dewatered and used as fill material under approval from the California Environmental Protection Agency, Regional Water Quality Control Board, San Diego Region.

CONTACT CONCURRENCE: Fred Allee DATE: 10-7-13

Printed on 50% recycled paper.

CORPORATE HEADQUARTERS
Foot of Sampson Street • San Diego, California • 92113
P.O. Box 13308 • San Diego, California • 92170-3308
(619) 238-1000 • TWX: 910-335-1167 SWM SDG • FAX (619) 238-0934

SOUTHWEST MARINE INC.

REVIEWED
7-12-93
Fred Alba
EHS-SA/M
H09689-001 [T75]

RECEIVED
JUN 29 1993
SAN DIEGO REGIONAL
WATER QUALITY CONTROL BOARD

June 28, 1993

Attn: Brian Kelly
California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Boulevard, Suite B
San Diego, CA 92124-1331

Re: Required report in accordance with Monitoring Reporting Program No. 92-68, Sections B.4. through B.7.

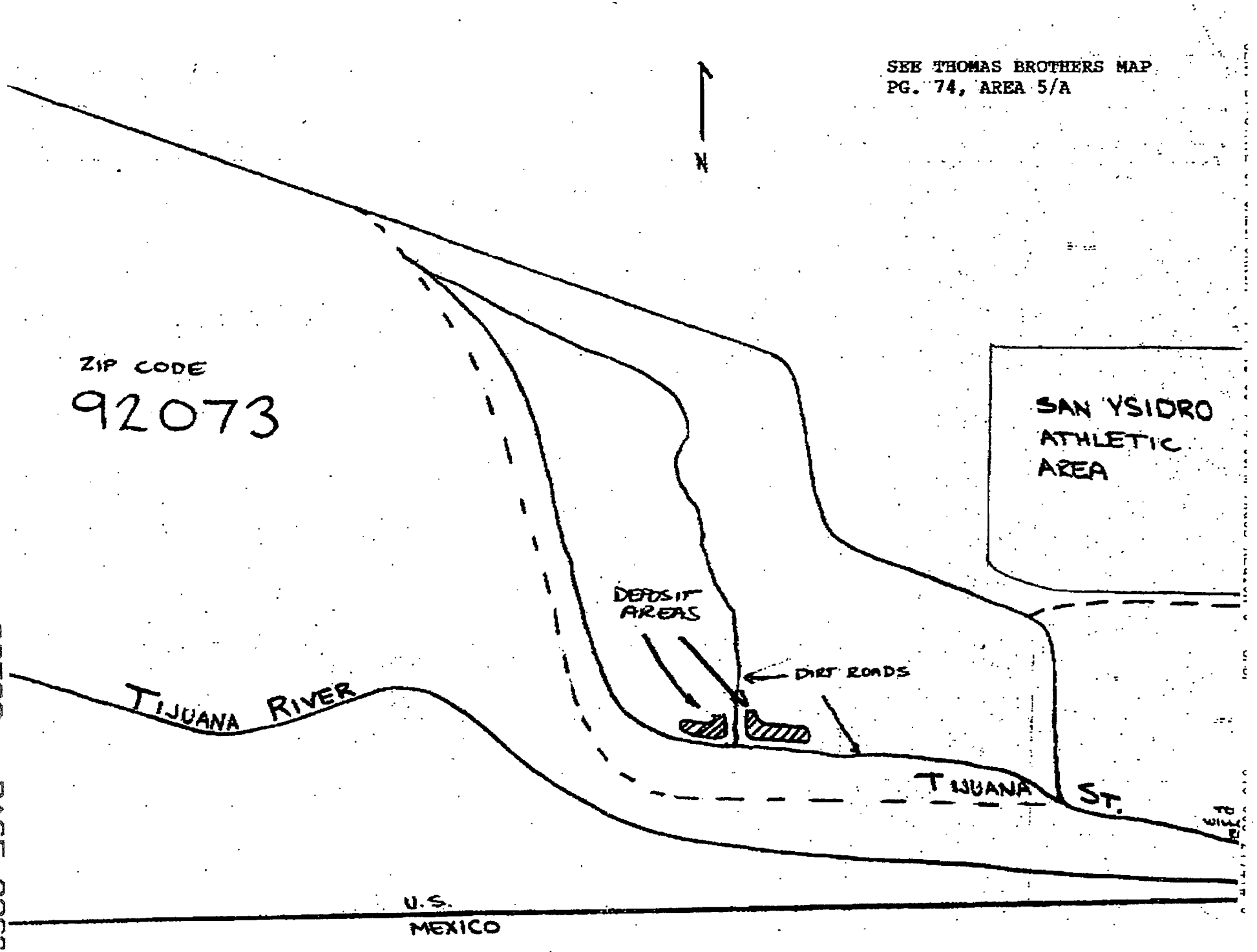
Dear Brian,

During the 10th through the 12th of June, all 5000 Yd^3 of dredge materials, located at the Main St. Dewatering Site, were removed and used as fill. The final disposal location is in the 92073 Zip Code area (see attached map). There is no further material to be removed from the dewatering site and no additional water was removed from these sediments, during the month of June. Should you have any questions or require additional information regarding this report, please call me at (619) 238-1000, ext. 4907.

Sincerely,

Daniel G. Mills
Environmental Coordinator,
San Diego Division

cc: Dana Austin
File



S3732 PAGE 2263

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION — Date: May 13, 1998

Agency Name: County of San Diego, Environmental Health, SAM	Address: PO Box 85261
City/State/ZIP: San Diego, CA 92186-5261	Phone: (619) 338-2222 Fax: (619) 338-2377
Responsible Staff Person: Laurie Apecechea	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: Southwest Marine		
Site Facility Address: Foot of Sampson Street, San Diego, CA 92170		
RB LUSTIS Case No: N/A	Local Case No: H09689-002	LOP Case No: N/A
URF Filing Date: 6/03/97	SWEEPS No: N/A	
Responsible Parties	Addresses	Phone Number
Southwest Marine Inc.	P. O. Box 13308	Tina Best
	San Diego, CA 92170-0308	238-1000

Tank No.	Size in Gal.	Contents	Closed in Place/Removed?	Date
1	10,000	diesel	closed in place	1/13/98
2	-	-	-	-
3	-	-	-	-

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Release of diesel from underground storage tank system			
Characterization complete? Yes	Date Approved By Oversight Agency: November 19, 1997		
Monitoring Wells Installed? None	Number: N/A	Proper Screened Interval? N/A	
Highest GW Depth Below Ground Surface: 8 feet	Lowest Depth: 8.5	Flow Direction: tidal	
Most Sensitive Current Use: Groundwater has no designated or potential beneficial uses Surface Water having designated or potential beneficial uses for: Recreational 1 (Body contact) and/or Recreational 2			
Are Drinking Water Wells Affected? No	Aquifer Name: basin No. 8.22 (San Diego Mesa)		
Is Surface Water Affected? No	Nearest SW name: San Diego Bay		
Off-Site Beneficial Use Impacts (addresses/locations): None			
Report(s) on file? Yes	Where is Report(s) Filed? County of San Diego, Environmental Health		

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal W/Destination)	Date
Tank	1-10,000 gallon	slurry-filled	1/13/98
Piping			
Free Product			
Soil	½ of a five gallon bucket	disposed of by TEG in San Diego	11/5/97
Groundwater			
rinsate	400 gallons	treatment at DeMeeno Kerdoon in Compton	1/13/97

63732 PAGE 2264

Case Closure Summary
Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued) H0968[illegible]02

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS -- BEFORE AND AFTER CLEANUP

Contaminant	Soil(ppm)		Water (ppm)		Contaminant	Soil (ppm)		Water (ppm)	
	Before	After	Before	After		Before	After	Before	After
TPH (Gas)	N/A	<10	N/A	<.5	Xylene	N/A	<.050	N/A	<.0005
TPH (Diesel)	44,302	44,302	N/A	<.5	Ethylbenzene	N/A	<.050	N/A	<.0005
Benzene	N/A	<.050	N/A	<.0005	Oil & Grease TRPH	34,373	34,373	N/A	N/A
Toluene	N/A	<.050	N/A	<.0005	Heavy Metals	N/A	N/A	N/A	N/A
Semivolatiles-PNAs	N/A	trace	N/A	trace	Other	N/A	N/A	N/A	N/A

Comments (Depth of Remediation, etc.): During soil sampling for the tank closure in place, contamination was observed in the area of the former dispenser. 8 borings were drilled during the initial assessment to determine if there was a release. The concentration of total petroleum hydrocarbons was observed to be over 44,000 mg/kg in the weathered diesel range. Six additional borings were drilled in the area of the former dispenser and 4 groundwater samples were obtained to complete the assessment. The consultant estimates that less than 10 cubic yards of hydrocarbon impacted soil is present at a depth of 5 to 13 feet in the vicinity of the former dispenser. The presence of the contamination based on the current site use does not present a significant threat to human health or the environment according to the consultant. The most volatile component of diesel, naphthalene, has a maximum soil concentration of <.002 ppm and is not likely to produce any vapors. The Organic Vapor Monitor (OVM) reading for the boring B-9 adjacent to the contamination was ND for all three samples taken at different depths. The consultant has concluded the contamination by the dispenser is not related to the underground storage tank system. The data submitted to this office by the consultant does not validate this statement and is not relevant to this closure summary. The residual concentrations of contaminants remaining meets the April 1, 1996 guidance for protection of the bay issued by the Regional Water Quality Control Board.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes
Case oversight completed based upon the current site use as a solid waste storage area.

Site Management Requirements:

Any contaminated soil excavated as part of subsurface construction work must be managed in accordance with the legal requirements at that time.

Should corrective action be reviewed if land use changes? Yes

Monitoring Wells Decommissioned: N/A | Number Decommissioned: N/A | Number Retained: N/A

List Enforcement Actions Taken: Notice of Corrective Action and Reimbursement Responsibility

List Enforcement Actions Rescinded: N/A

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Chuck Pryatel | Title: Chief Site Assessment and Mitigation

Signature: [signature] | Date: 7-10-98

Hydrogeologist Concurrence: [signature] | Date: 6/17/98

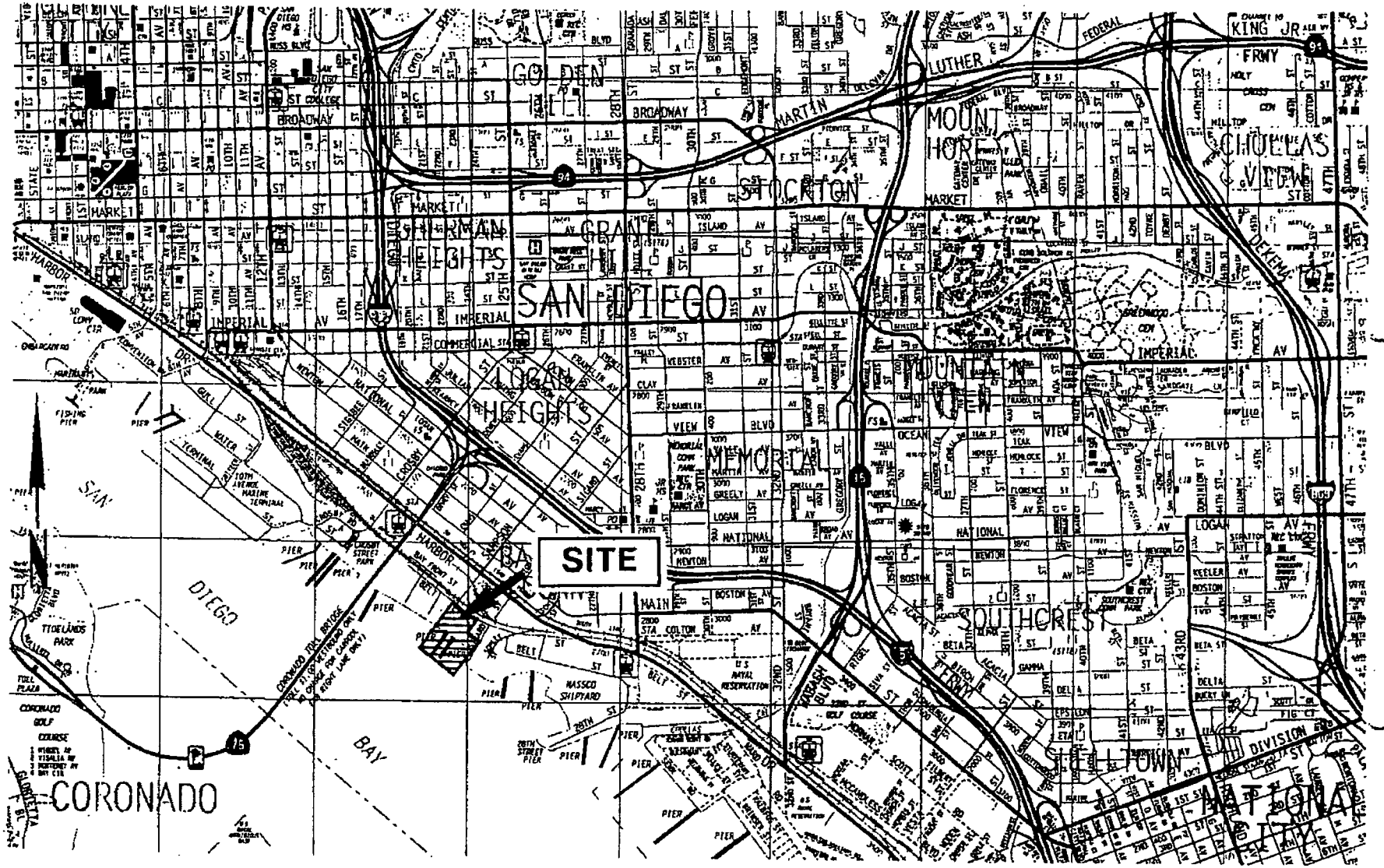
VI. RWQCB NOTIFICATION

Date Submitted to RB: 6/18/98 | RB Response: Concur

RWQCB Staff Name: Laurie Walsh | Title: Sanitary Engineering Associate | Date: 7/09/98

VII. ADDITIONAL COMMENTS, DATA, ETC.

This document and the related CASE CLOSURE LETTER shall be retained by the lead agency.



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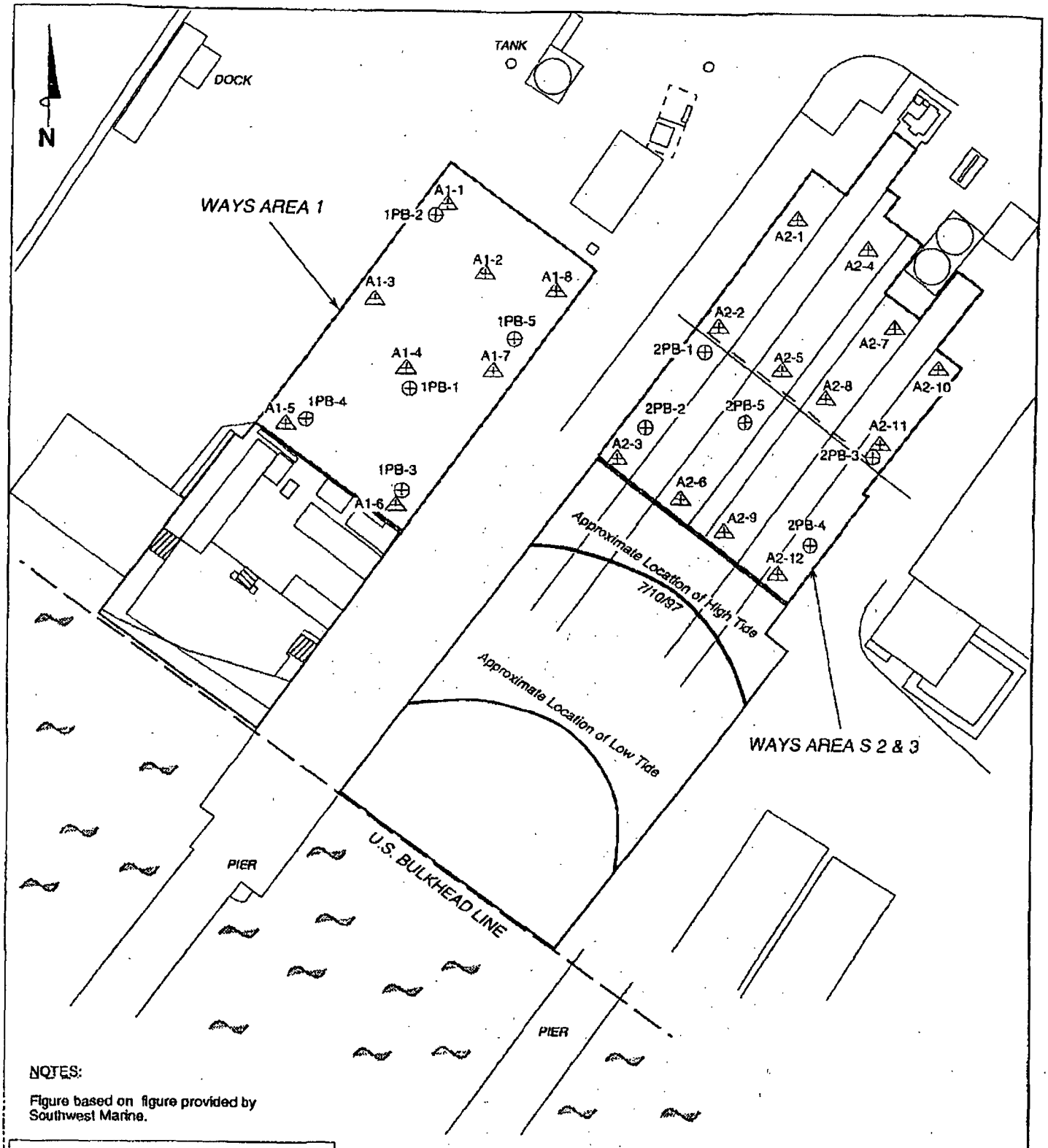
VICINITY MAP
SOUTHWEST MARINE

FN: 97530408	DRAWN BY: CM	CHECKED BY: RLS	PROJECT NO: 97530408-FI01	DATE: 11-10-97	FIGURE NO: 1

WOODWARD-CLYDE



NOTES:

Figure based on figure provided by Southwest Marine.

LEGEND

A1-7 ⚠ Hand Auger Boring

1PB-1 ⊕ Hollow Stem Auger Boring

SITE PLAN

Southwest Marine
2205 East Belt Street
San Diego, California

ALTON GEOSCIENCE
San Diego, California

Scale (feet)
0 20 40

FIGURE 2

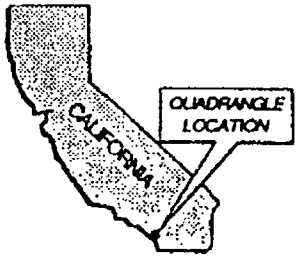


1 MILE 3/4 1/2 1/4 0 1 MILE

SCALE 1: 24,000

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map
Point Loma Quadrangle
Photorevised 1975

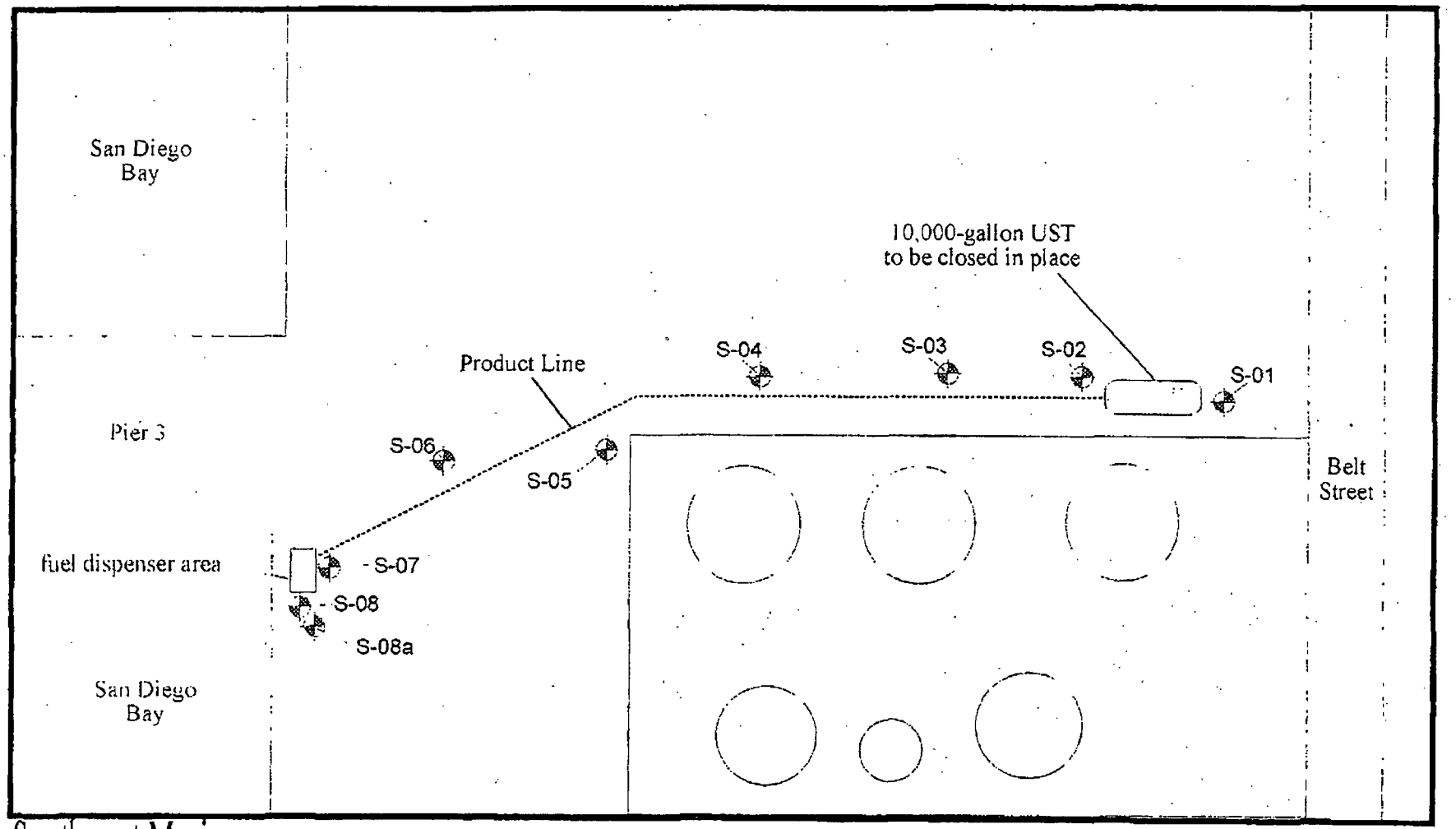


INDEX MAP

Southwest Marine, Inc.
2205 East Belt Street
San Diego, California

ALTON GEOSCIENCE
San Diego, California

FIGURE 1



Southwest Marine
Foot of Sampson Street
San Diego, California

CERES

Scale: one inch = approximately 50 feet

= approximate location of soil boring

Project B327-02 February 1997

N

SOIL BORING LOCATIONS MAP

FIGURE 2

93732 PAGE 2269

DM

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
(619) 338-2222 FAX (619) 338-2377
1-800-253-9933

RICHARD HAAS
ASSISTANT DIRECTOR

October 16, 2002

Mr. John H. Robertus, Executive Officer
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123

Dear Mr. Robertus:

RWQCB REFERRAL - CASE NO. H09689-003
SOUTHWEST MARINE
2205 EAST BELT STREET FOOT OF SAMPSON STREET
SAN DIEGO, CA 92170-3308

Evidence of a hazardous substance release has been reported to the County of San Diego, Site Assessment and Mitigation Program (SAM) by Mr. Kenneth Peterson, Southwest Marine, Inc., on October 3, 2002. I am referring this case to you for follow up. The property owner is Southwest Marine Inc., P.O. Box 13308, San Diego, CA 92170-3308, (619) 238-1000. The Department of Environmental Health (DEH) requests the Regional Water Quality Control Board take whatever action is deemed appropriate for the site.

The suspected source or amount of the release is unknown. The release was detected by a phase II site assessment. Copies of the notification letter, site assessment report, and SAM response are enclosed for your information.

If you have questions or comments, please contact Danny Martinez at (619) 338-2456.

Sincerely,

JACK MILLER, Chief
Land and Water Quality Division

JM/DM/kd

Enclosures

cc: John Anderson, RWQCB
Kenneth Peterson, Southwest Marine, Inc.

WP/H09689-RWQCB-1002

F

County of San Diego

J. WILLIAM COX, M.D., Ph.D
DIRECTOR
(619) 236-2237

DEPARTMENT OF HEALTH SERVICES

1700 PACIFIC HIGHWAY, SAN DIEGO, CALIFORNIA 92101-2417

OFFICE OF THE DEPUTY DIRECTOR
ENVIRONMENTAL HEALTH SERVICES
P. O. BOX 85261
SAN DIEGO, CA 92138-5261
(619) 236-2243

February 12, 1988

Mr. John Dawsey
SDG&E
P.O. Box 1831
San Diego, CA 92112

RE: UNAUTHORIZED RELEASE #TO322/H13942
1348 SAMPSON STREET, SAN DIEGO, CA

Dear Mr. Dawsey:

The site remediation report submitted to this Department by SDG&E, Woodward Clyde Consultants and Crosby Overton summarizing the site characterization and mitigation activities at the above referenced location has been reviewed. This report has also been discussed with staff of the Regional Water Quality Control Board (RWQCB). The RWQCB concurs with the determination of this Department that this site has been adequately mitigated. Based on current requirements and policies, no further action is indicated at this time.

Please be advised that if the current use of the site changes, additional site characterization and mitigation activity may be required. As the property owner, it is your responsibility to notify this Department prior to any such changes.

Thank you for your efforts in resolving this matter. Please contact the Hazardous Materials Management Division at (619) 236-2222, if you require any additional assistance.

Sincerely,

GARY R. STEPHANY, Deputy Director
Environmental Health Services

GRS:jj

cc: RWQCB
HMMD, V. Church

40-9085

Unau[illegible]ized Release of Hazardous S[illegible]tance
f[illegible]an Underground Storage Tank[illegible]
Division Chief's Signature

File No. T0322/H13942 Date Submitted 2/4/88

Facility Name SOGE

Operator JOHN DAWSEY Phone 696-2414

Address at Site 1348 SAMPSON ST, SAN DIEGO CA (SILVERGATE)

Mailing Address (if different) PO BOX 1831 SAN DIEGO CA 92112

Corporate Contact Person JOHN DAWSEY Phone 696-2414

Name of Specialist Filing Letter V. CHURCH Phone 236-2222

	Yes	No	NA
Source Contained	X		
Off Site Impacts		X	
Beneficial Use Area		X	
Known Public Health Risks		X	
Further Environmental Monitoring Required		X	
Consultant's Report on File	X		

CLEANUP LVL
1000 PPM AT THIS SITE

① FUEL OIL LINE LEAK

② CLEANUP 16 SAMPLES N.D. TO 540 MG/KG TPH REMAINING AT SITE

③ GW 20FT. RWQCB CONCURS W/ CLOSURE

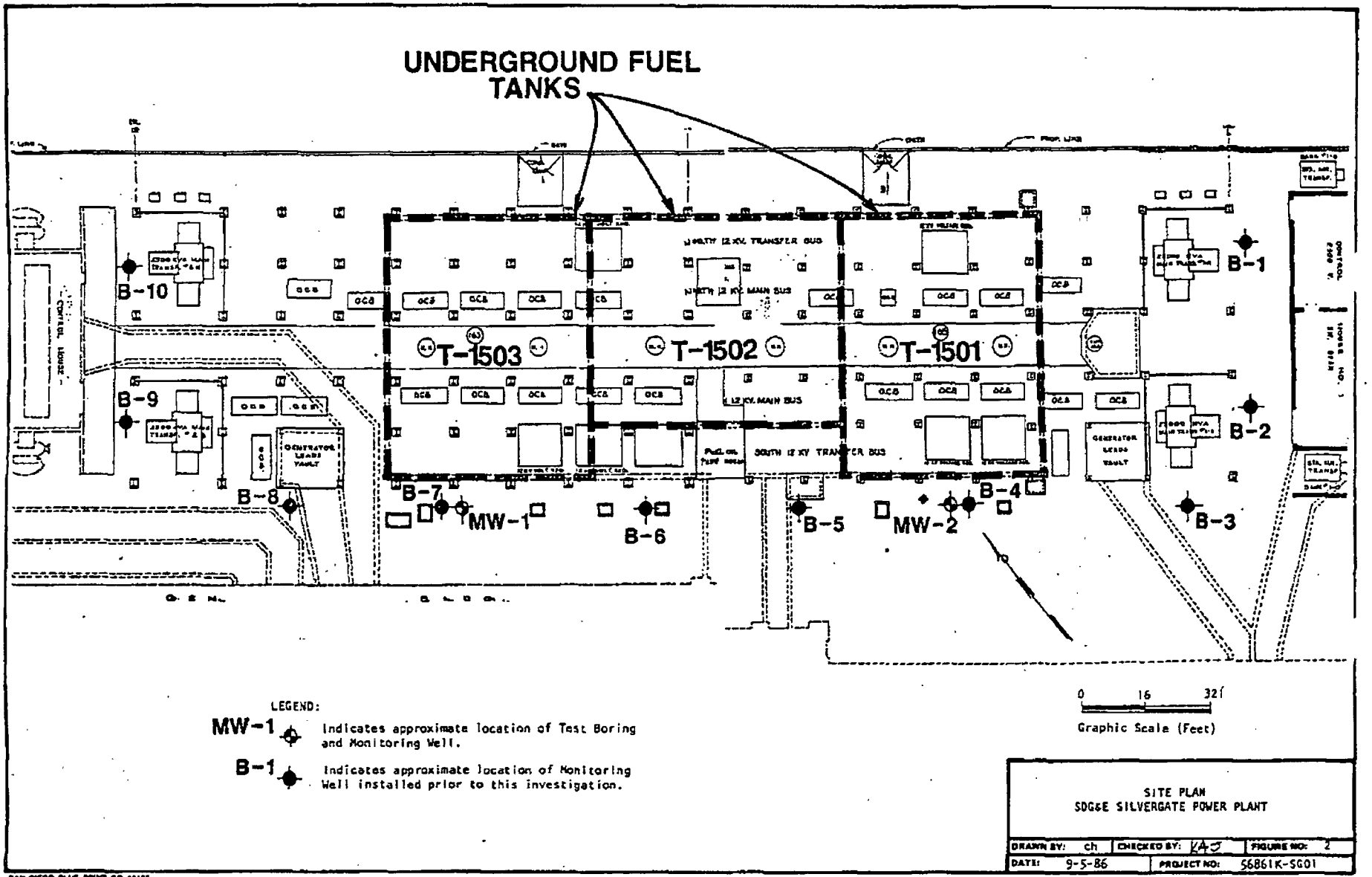
④ MANIFESTED 210 YDS SOIL

⑤ RECOMMEND FILE CLOSURE

NOTE $L \sim 0.5 \times 40^3$ 2500 MG/KG IN AREA NOT ACCESSIBLE PER SITE VISIT BY V. CHURCH. SAMPLES TO SIDES INDICATE 20,100 AND 110 MG/KG ADJACENT TO AREA.

DHS:HM-987 (5/86) Insignificant volume

County of San Diego
Department of Health Services



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County of San Diego

JACK MILLER
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

December 5, 2013

Regional Water Quality Control Board
Attn: Julie Chan
2375 Northside Drive, Suite 100
San Diego, CA 92108-2700

CASE FILE TRANSFER NOTIFICATION
UNAUTHORIZED RELEASE # H13942-002
SDG&E ENVIRONMENTAL DEPT.
1348 SAMPSON, SAN DIEGO, CA
Global ID: T06019761425

On July 24, 2006, an unauthorized release case was opened on the above listed property by the County of San Diego, Department of Environmental Health (DEH), in accordance with the California Health and Safety Code and the California Code of Regulations. The DEH Site Assessment and Mitigation Program (SAM) provided oversight of the above mentioned release until December 5, 2013.

For all future questions related to this release, please contact Craig Carlisle of the Regional Water Quality Control Board (RWQCB) at (619) 521-3378 or at Craig.Carlisle@waterboards.ca.gov by electronic mail. All of the files held by the SAM have been transferred to the RWQCB. No copies have been retained by SAM. Requests for public records review pertaining to unauthorized release #H13942-002 will be addressed by the Regional Water Quality Control Board at (619) 516-1990.

Sincerely,

SCOTT WELDON
Supervising Environmental Health Specialist
Site Assessment and Mitigation Program

cc: Ms. Barbara Montgomery, Sempra Energy Utilities

JACK MILLER
DIRECTOR

County of San Diego

ELIZABETH POZZEBON
ASSISTANT DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
858-505-6700/1-800-253-9933
www.sdcdeh.org

PAST DUE NOTICE

May 11, 2012

Barbara Montgomery
Project Manager, Environmental Services
Sempra energy Utilities
8315 Century Park Ct., CP2IE
San Diego, CA 92123-1548

Dear Ms. Montgomery:

UNAUTHORIZED RELEASE FILE #H13942-002
SILVERGATE POWER PLANT
1348 SAMPSON STREET, SAN DIEGO, CA

This letter has been prepared in accordance with the requirements set forth in Title 23 (State Underground Storage Tank Regulations), Division 3, Chapter 16, Article 11.

A review of the Department of Environmental Health (DEH), Site Assessment and Mitigation Program files indicates that the written update report associated with the site clean-up at above-referenced location is **PAST DUE**. DEH has not received a report on the progress of your environmental work at the subject site.

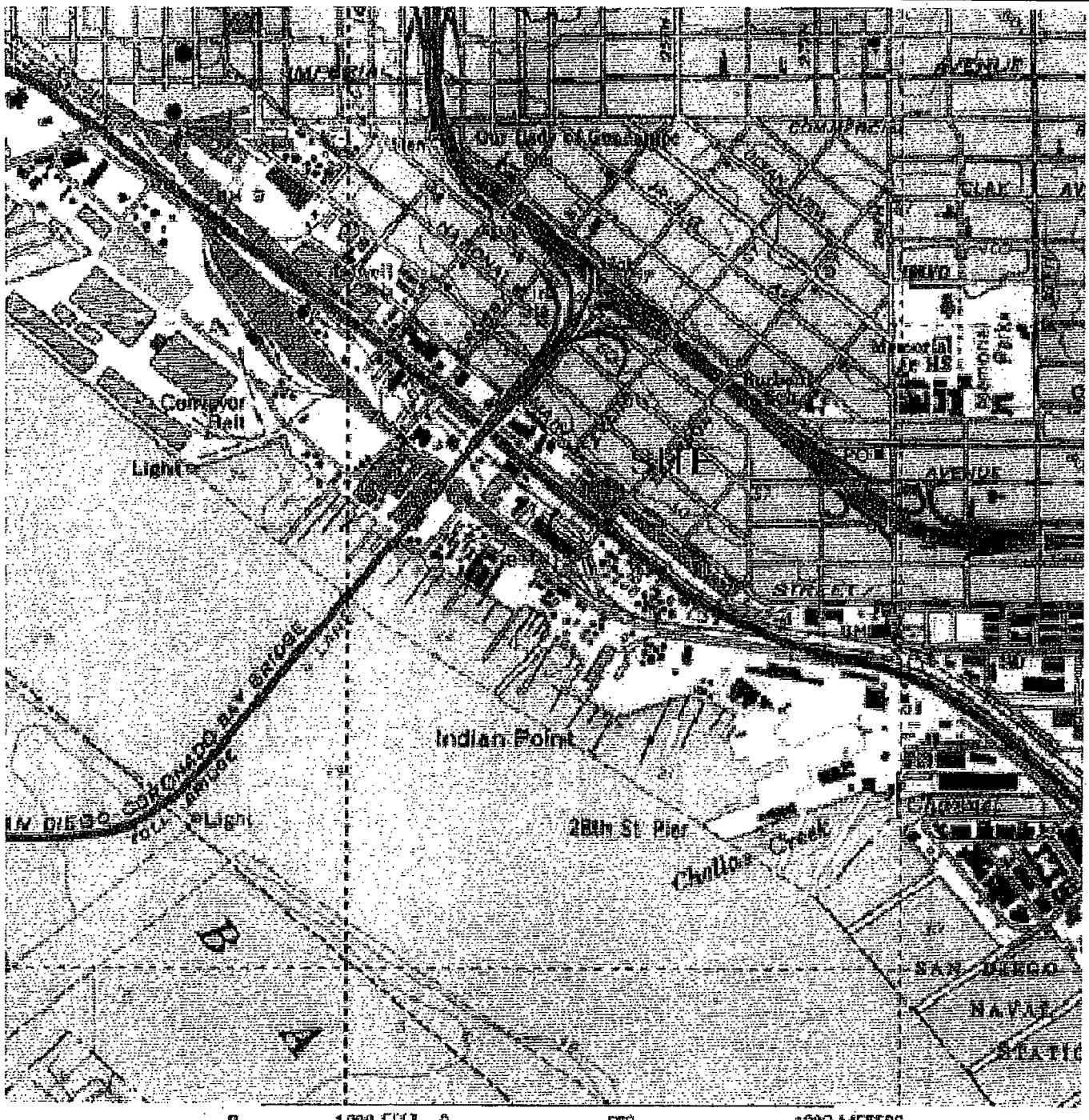
The California Code of Regulations, Title 23, Division 3, Chapter 16, Article 5, Section 2652(d) states that until cleanup is complete, reports shall be submitted to the local agency every three months or at a more frequent interval if specified.

Submit a written update report to DEH by Wednesday July 11, 2012, summarizing all site activities and any proposals for further work. Update reports must be submitted until such time as the unauthorized release is resolved.

If you have any questions, please contact me at 858-505-6795.

Sincerely,

NASSER SIOMIT, Project Manager
Site assessment and Mitigation Program
Department of Environmental Health



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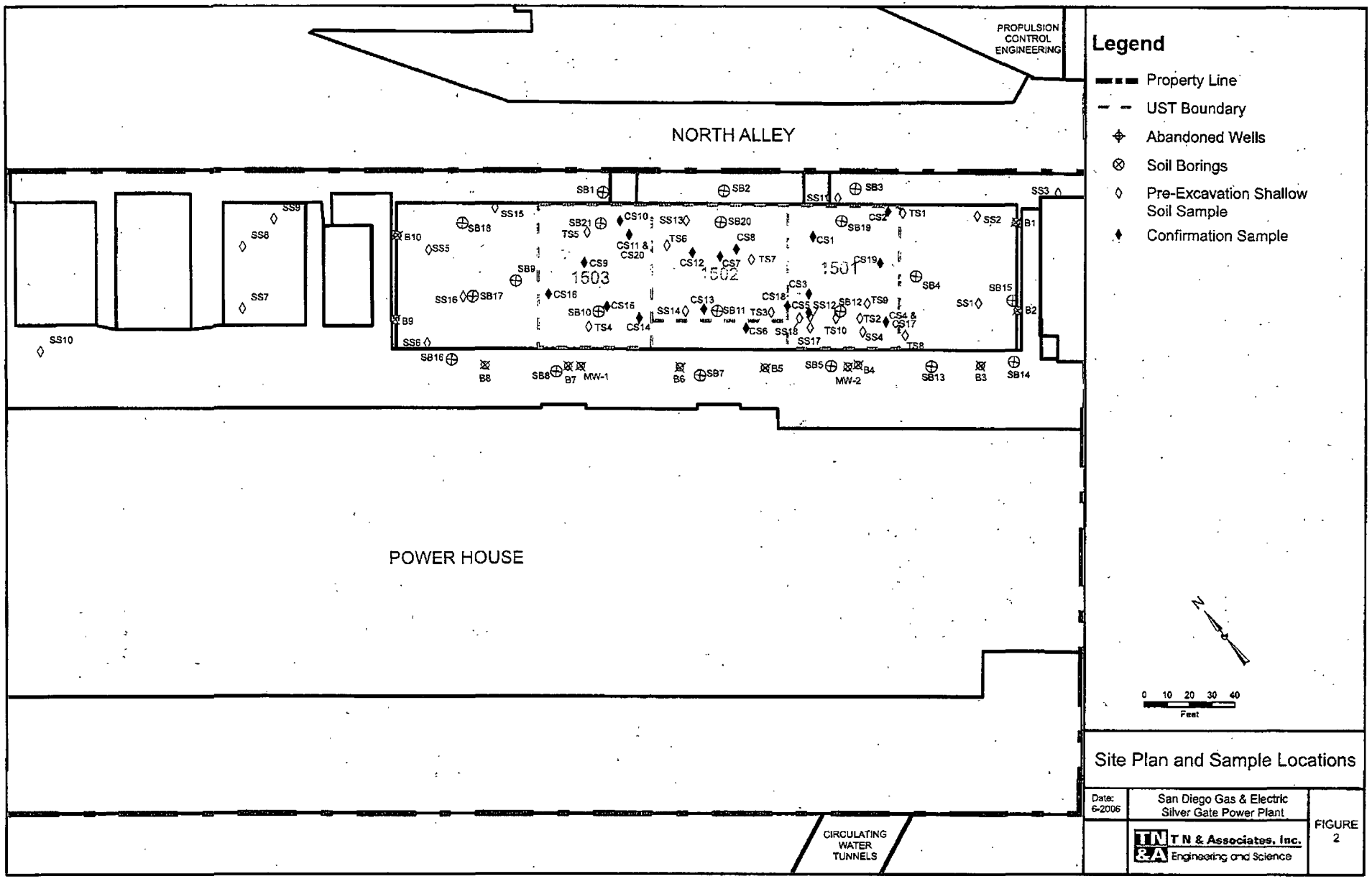
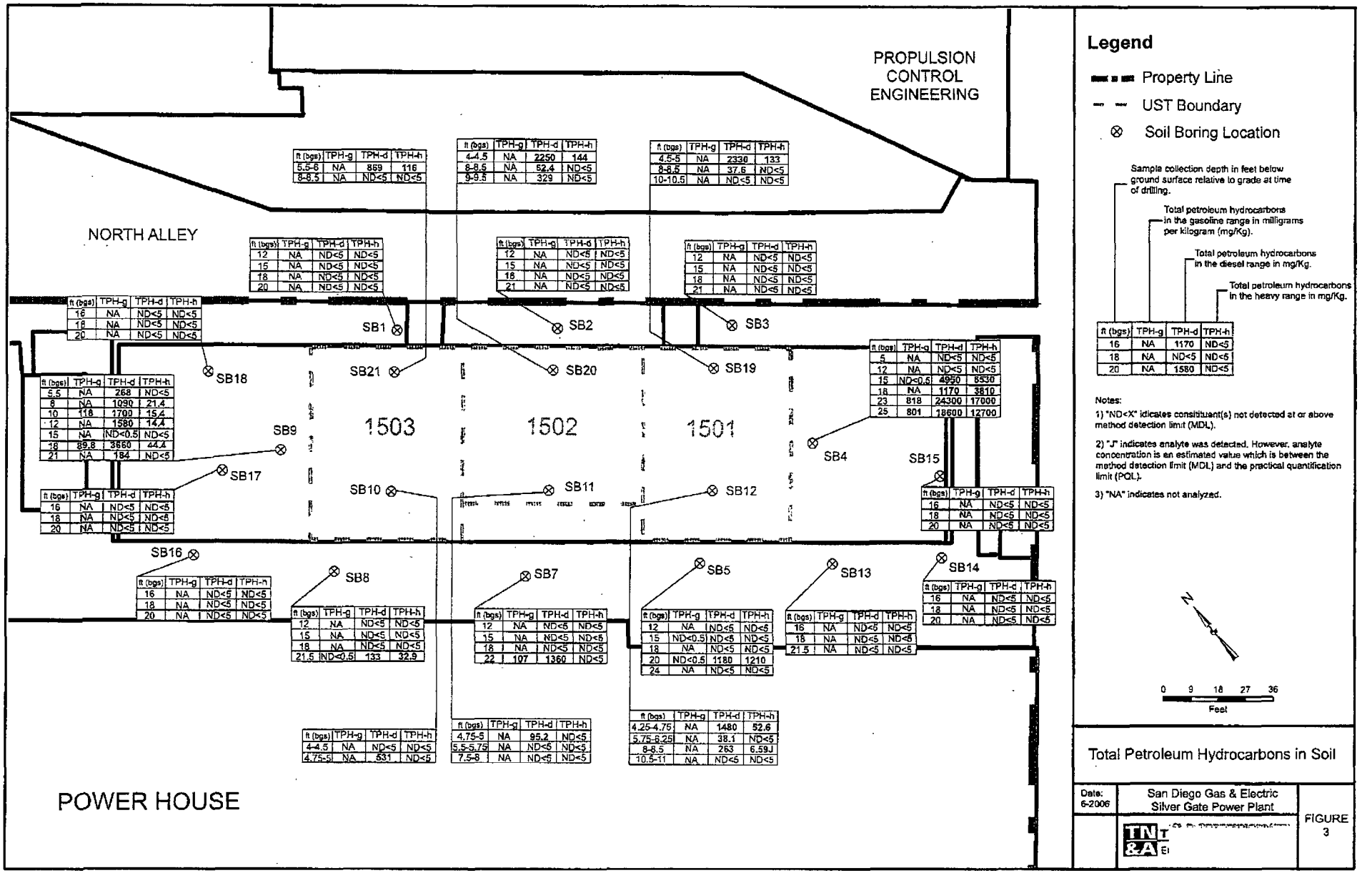
TN & Associates, Inc. Engineering and Science	*SDG&E SILVER GATE POWER PLANT SAN DIEGO, CALIFORNIA*	*FIGURE 1 SITE LOCATION MAP*

FILE NAME: Figure 1.dwg

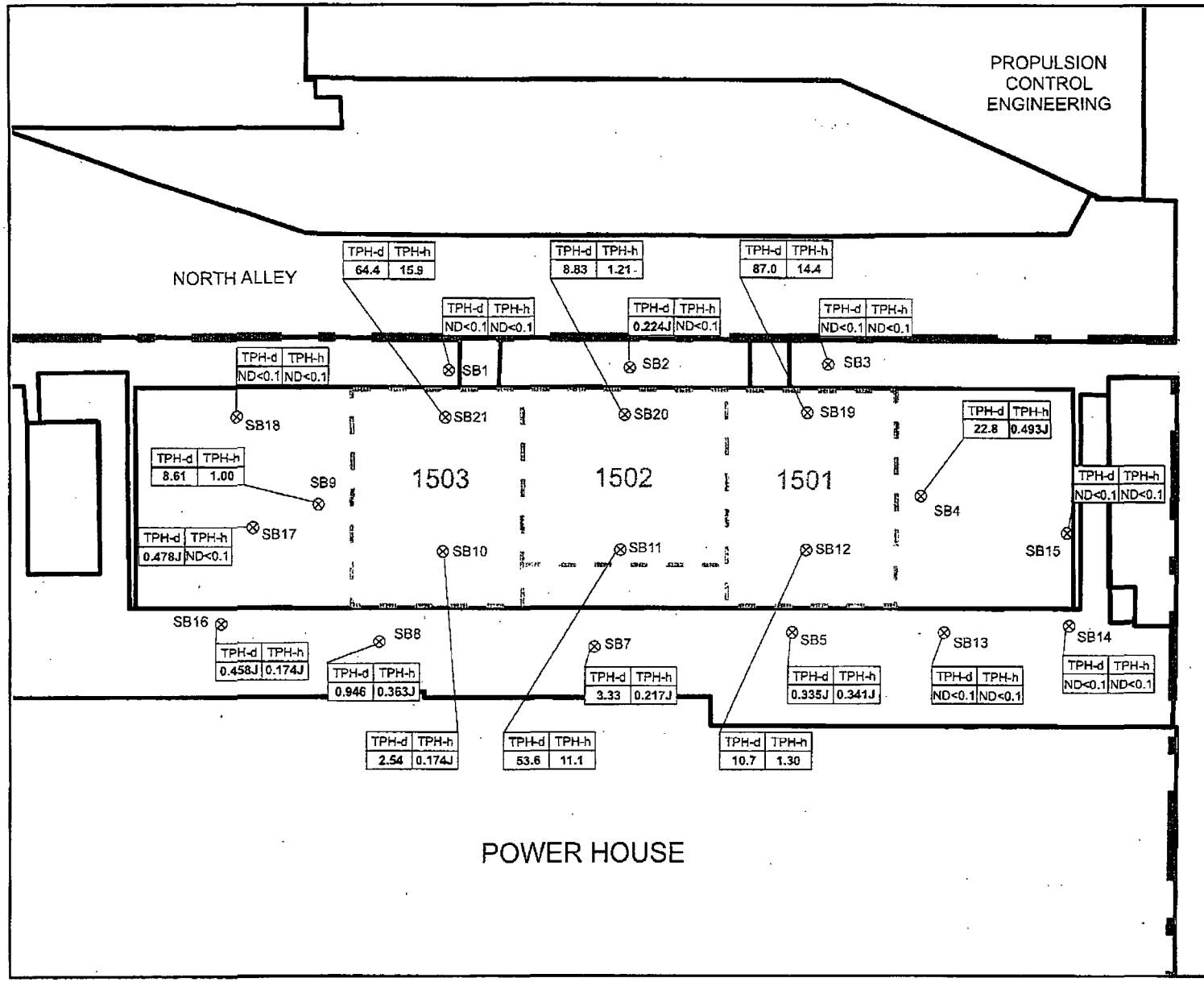


S8732 PAGE 2277



P:\PDGE\Silver Gate\Sediment\ArcGIS\UST\TPHsoil.mxd

6176 2276 6176 2276



Legend

- Property Line
- UST Boundary
- ⊗ Soil Boring Location

Total petroleum hydrocarbons in the diesel range in milligrams per liter (mg/L).

Total petroleum hydrocarbons in the heavy range in mg/L.

TPH-d	TPH-h
22.8	ND<0.1

Notes:

1) "ND<X" idicates consitituent(s) not detected at or above method detection limit (MDL).

2) "J" indicates analyte was detected. However, analyte concentration is an estimated value which is between the method detection limit (MDL) and the practical quantification limit (PQL).

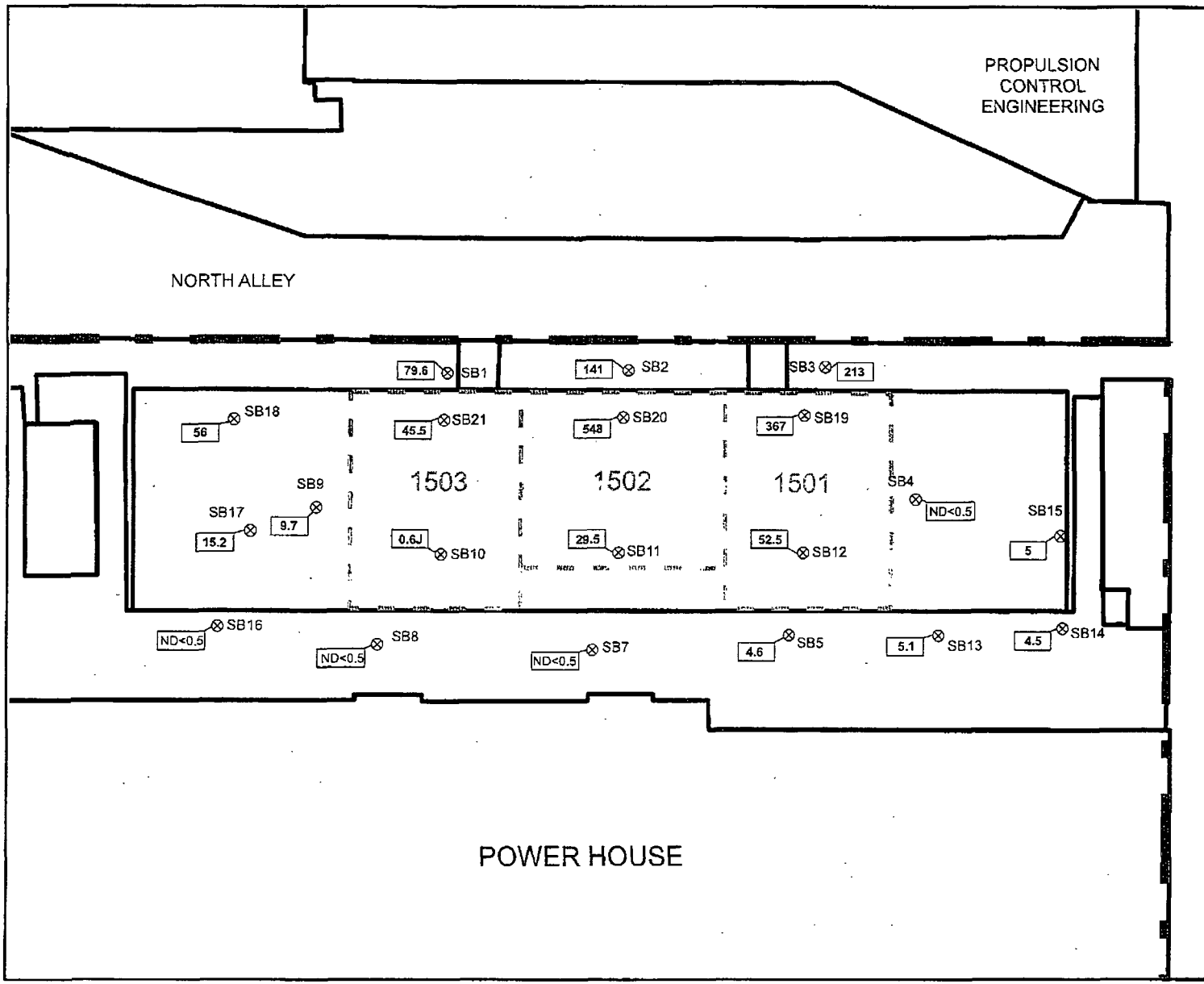
N

0 7.5 15 22.5 30
Feet

Total Petroleum Hydrocarbons in Groundwater

Date: 6-2006	San Diego Gas & Electric Silver Gate Power Plant	FIGURE 4
	TN&A T N & Associates, Inc. Engineering and Science	

63732 PAGE 2279



Legend

- Property Line
- UST Boundary
- ⊗ Soil Boring Location

Notes:

1) All concentrations are in micrograms per liter (µg/L)

2) "ND<X" Idicates consitituent(s) not detected at or above method detection limit (MDL).

3) "J" indicates analyte was detected. However, analyte concentration is an estimated value which is between the method detection limit (MDL) and the practical quantification limit (PQL).

N

0 7.5 15 22.5 30
Feet

Trichloroethene in Groundwater

Date: 8-2006	San Diego Gas & Electric Silver Gate Power Plant	FIGURE 5
	TN & Associates, Inc. Engineering and Science	

P:\SDGAE\Silver Gate\Sediment\ArcGIS\USTTPHgw.mxd

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
http://www.sdcdeh.org

JACK MILLER
ASSISTANT DIRECTOR

July 2, 2008

Mr. Ron Halik
CP Kelco
2025 East Harbor Drive
San Diego, CA 92113

Dear Mr. Halik:

VOLUNTARY ASSISTANCE PROGRAM, FILE H38979-002
CP KELCO, LOCATED AT 2025 E. HARBOR DRIVE, SAN DIEGO, CA
FORMER IPA AND DIESEL TANK FARM

The Department of Environmental Health (DEH), Site Assessment and Mitigation Program (SAM), reviewed the environmental investigation report related to the above-referenced property, prepared by E2 Environmental. The report summarizes the site investigation activities performed at the above-referenced location. Provided that the information presented to DEH/SAM was complete, accurate, and representative of existing site conditions, **this agency concurs that the cleanup goals established for the subject site have been met.**

Please be advised that this letter does not relieve the responsible party of any liability under the California Health and Safety Code or the Porter Cologne Water Quality Control Act.

Currently remaining in the area of the investigation is the concrete covered dirt berm that surrounded the former aboveground tanks; and the adjacent unloading area with asphalt and concrete paving. Changes in the present use of the above site as an open area on the Industrial facility may require reevaluation to determine if the change will pose a risk to public health.

Thank you for selecting the Department of Environmental Health as your lead agency to assist you with the progress of your environmental project. Please contact Donn LiPera of the Site Assessment and Mitigation Program, at (619) 338-2244, if you require additional assistance.

Sincerely,

GEORGE McCANDLESS, Program Manager
Supervising Environmental Health Specialist
Site Assessment and Mitigation Program

GM:DAL:kd

Enclosure

cc: John Anderson, Regional Water Quality Control Board
Dennis England, E2 Environmental

WP/H38979-002-708VAPCLO

Case Closure Summary
Non-LOP or Voluntary Assistance Program

I. AGENCY INFORMATION

DATE: 7/1/2008

Agency Name: County of San Diego, Environmental Health, SAM	Address: P.O. Box 129261
City/State/ZIP: San Diego, CA 92112-9261	Phone: (619) 338-2222 FAX: (619) 338-2377
DEH Staff Person: Donn LiPera	Title: Project Manager

II. CASE INFORMATION

Case No. H38979-002		
Site Name: CP Kelco		
Site Address: 2025 E. Harbor Drive, San Diego, CA 92113		
Property Owner: CP Kelco	Address: 2025 E. Harbor Drive, San Diego, CA 92113	Phone: 619 595-5065 Ron Halik
Responsible/Requesting Party : CP Kelco	Address: 2025 E. Harbor Drive, San Diego, CA 92113	Phone: 619 595-5065 Ron Halik
Type of Case: Non-Tank Case		
RWQCB/DTSC notification of DEH Oversight: yes 10/23/2001		

III. SITE CHARACTERIZATION AND/OR INFORMATION

Cause and Type of Contamination (if any): Four above-ground storage tanks each 275,000 gallons: 3 diesel, 1 isopropyl alcohol (IPA)

Site Characterization complete?	Yes			
Monitoring Wells Installed?	Yes*	Total Number: 16	Proper Screened Interval? Yes	Number of decommissioned wells: 0
Range of groundwater levels on the site? 10-15 feet below grade.				Groundwater Flow Direction: South

Most Sensitive Current Use:

Beneficial Groundwater Use: None Designated
Existing Beneficial Surface Water Use: REC2 and Potential: REC1

Are Drinking Water Wells Affected?	No	RWQCB Basin Number: Chollas Hydrologic Sub Area 908.22	
Is Surface Water Affected?	No	Nearest Surface Water name: San Diego Bay	

Off-Site Beneficial Use Impacts (addresses/locations): None

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL

Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Purge water	1 drum	Safety Kleen Systems, Texas	12/29/2006
Purge water	1 drum	U.S. Ecology, Nevada	9/14/2007
Soil cuttings	1 drum	Safety Kleen Systems, Texas	12/29/2006

Non-LOP - Underground Storage Tank Oversight handled outside the LOP
Non-Tank – Voluntary Assistance Program

Case Closure Summary
Non-LOP or Voluntary Assistance Program

III. SITE CHARACTERIZATION AND/OR INFORMATION (Continued) H38979-002

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS -- BEFORE AND AFTER CLEANUP

Contaminant	Soil (mg/kg)		Water (mg/liter)		Contaminant	Soil (mg/kg)		Water (mg/liter)	
	Before	After	Before	After		Before	After	Before	After
TPH (Diesel)	36,600	36,600	<0.5	<0.5	Isopropyl alcohol	1,100	1,100	**	**
Benzene	0.190	0.190	**	**	Acetone	98	98	**	**
Toluene	0.310	0.310	**	**	TCE	0.21	0.21	**	**
Xylene	<.005	<.005	**	**	PCE	0.17	0.17	**	**
Ethylbenzene	0.0086	0.0086	**	**	Chrysene	0.01	0.01	**	**
Naphthalene	0.42	0.42	**	**	Fluorene	0.17	0.17	**	**
Anthracene	0.013	0.013	**	**	Phenanthrene	0.62	0.62	**	**
Fluoranthrene	0.044	0.044	**	**	Pyrene	0.052	0.052	**	**
Chlorobenzene	0.025	0.025	**	**	p-isopropyltoluene	0.047	0.047	**	**
Isopropylbenzene	0.016	0.016	**	**	n-isopropylbenzene	0.018	0.018	**	**
Benzo(a)anthracene	0.038	0.038	**	**	sec-butylbenzene	0.087	0.087	**	**
Benzo(f)anthracene	0.025	0.025	**	**	1,2,4-Trimethylbenzene	0.081	0.081	**	**
1,3,5-Trimethylbenzene	0.100	0.100	**	**				**	**

Comments:

The area investigated was a former tank farm used by Kelco that consisted of four above-ground storage tanks, each with a storage capacity of 275,000 gallons surrounded by a 4 foot high soil berm covered with gunite and a dirt floor. Three tanks stored diesel fuel and one of the tanks was used for isopropyl alcohol (IPA). The IPA tank was removed in 1992 and the diesel tanks were removed in 2001.

Currently remaining is the containment berm (breached on the south side) with dirt floor and the adjacent former loading area with asphalt and concrete paving. No current plans to change the use of the area have been proposed.

The consultant concludes:

- Most of the contamination is from diesel fuel and is located inside the concrete containment berm from ground surface to 5 feet below grade.
- A smaller area of diesel impacted soil exists in the loading area just east of the concrete containment berm from ground surface to 3 feet below grade.
- A small amount of IPA and semi-volatile organic compounds were also encountered in both areas.
- The IPA is associated with the former IPA tank and the semi-volatile organic compounds, such as naphthalene, are associated with the former diesel tanks.
- Groundwater does not appear to be impacted by the release.
- The only chemical detected in the groundwater sample collected from well MP-106 was a trace amount of DCE, but it is not significant and is below action levels.
- No further investigation is warranted and natural attenuation of the contaminants in soil is the only mitigation needed.
- Additional assessment and/or mitigation may be required should the use of the area of investigation be changed.

The DEH agrees with the consultants' conclusions and recommendations.

** A water sample was collected from well MP-106, located just south of the tank farm. Chemicals were not detected by EPA Method 8260B using acceptable method detection limits with the exception of a trace amount of cis-1,2-DCE (0.97 micrograms/liter).

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes

Does corrective action protect public health for current land use? Yes

Case review based on current use as: Industrial (former tank farm with concrete containment and dirt bottom; and adjacent unloading area with asphalt and concrete paving.)

Case Closure Summary
Non-LOP or Voluntary Assistance Program

IV. CLOSURE (cont.) H38979-002

Are there other issues DEH needs to follow up on: None
Site Management Requirements: Any impacted soil excavated for reuse onsite or offsite disposal must be managed in accordance with the legal requirements at that time.
Should corrective action be reviewed if land use changes? Yes
List Enforcement Actions Taken: None
List Enforcement Actions Rescinded: None
Is this account up to date and current?: Yes

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Tony V. Sawyer PG 4345, CHg 40	Title: Hydrogeologist Land and Water Quality Division
Signature: Tony V. Sawyer	Date: 4-3-08

VI. RWQCB NOTIFICATION

Date Submitted to RWQCB: N/A VAP Case	RWQCB Response: N/A	
RWQCB Staff Name:	Title: N/A	Date: N/A

VII. ADDITIONAL COMMENTS, DATA, ETC.

*Well MP-106, installed for closed case #H02377-009, was used for monitoring purposes for this case. The wells from the closed case, including MP-106, were retained by Kelco to monitor groundwater conditions. A letter committing to maintenance, monitoring and reporting was submitted.

This document and the related CASE CLOSURE LETTER, shall be retained by the lead agency as part of the official site file.

APPENDIX E

HISTORICAL RESEARCH DOCUMENTATION

CITY DIRECTORIES

400 East Belt St
400 East Belt St
San Diego, CA 92113

Inquiry Number: 4069684.5
September 25, 2014

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1903 through 2013. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

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Data by
infoUSA®
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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2013	Cole Information Services	-	X	X	-
2008	Cole Information Services	-	X	X	-
2006	Haines Company, Inc.	-	X	X	-
2000	Haines & Company	-	X	X	X
1995	PACIFIC BELL WHITE PAGES	-	-	-	-
1992	PACIFIC BELL WHITE PAGES	-	X	X	-
1991	PACIFIC BELL WHITE PAGES	-	-	-	-
1989	Pacific Bell	-	X	X	-
1985	PACIFIC BELL WHITE PAGES	-	X	X	-
1984	R. L. Polk & Co.	-	X	X	X
1980	R. L. Polk & Co.	-	X	X	X
1976	Luskey Brothers & Co., Inc.	-	-	-	-
1975	R. L. Polk & Co.	-	X	X	X
1971	Community Directory Co.	-	-	-	-
1970	John M. Ducy	-	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1966	R. L. Polk & Co.	-	X	X	X
1965	Community Directory Co.	-	-	-	-
1962	Community Directory Co.	-	-	-	-
1961	R. L. Polk & Co.	-	X	X	X
1960	The Pacific Telephone Telegraph Co.	-	X	X	-
1956	R. L. Polk & Co.	-	-	-	-
1955	R. L. Polk & Co.	-	X	X	-
1952	R. L. Polk & Co. of California	-	X	X	X
1950	The Pacific Telephone & Telegraph Co.	-	-	-	-
1948	San Diego Directory Co.	-	X	X	X
1945	San Diego Directory Co.	-	X	X	-
1943	San Diego Directory Co.	-	X	X	X
1940	San Diego Directory Co.	-	-	-	-
1938	San Diego Directory Co.	-	X	X	X
1933	San Diego Directory Co.	-	X	X	X
1927	San Diego Directory Co.	-	X	X	X
1921	San Diego Directory Co. Inc.	-	-	-	-
1907	San Diego Directory Co.	-	-	-	-
1903	San Diego Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

400 East Belt St
San Diego, CA 92113

FINDINGS DETAIL

Target Property research detail.

63732 PAGE 2291

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

BAY FRONT ST

1955 BAY FRONT ST

Year	Uses	Source	
1952	Westgate Sun Harbor Co canners	R. L. Polk & Co. of California	Image pg. A19
1948	Sun Harbor Pkg Co	San Diego Directory Co.	Image pg. A22

1995 BAY FRONT ST

Year	Uses	Source	
2013	NAVAL COATING INC	Cole Information Services	
	NASSCO	Cole Information Services	
	CONTINENTAL MARITIME	Cole Information Services	
	SPERRY MARINE	Cole Information Services	
2008	CONTINENTAL MARITIME OF SAN DIEGO IN	Cole Information Services	
2006	CONTL MARITIME	Haines Company, Inc.	
	OF SD INC SPERRYMARINE	Haines Company, Inc.	
2000	CONTLMARITIMEINC	Haines & Company	Image pg. A1
1992	Bay Decking Co	PACIFIC BELL WHITE PAGES	
	Continental Maritime Of San Diego Inc	PACIFIC BELL WHITE PAGES	
	Continental Marketing Service	PACIFIC BELL WHITE PAGES	
1989	Bay Decking Co	Pacific Bell	
	Continental Maritime Of San Diego Inc	Pacific Bell	
	Testing Services & Inspection	Pacific Bell	
1984	Bumble Bee Seafoods canners	R. L. Polk & Co.	Image pg. A4
	State Health Dept Cannery Inspection	R. L. Polk & Co.	Image pg. A4
1980	Bumble Bee Seafoods canners	R. L. Polk & Co.	Image pg. A7
	State Health Dept Cannery	R. L. Polk & Co.	Image pg. A7
	Inspection	R. L. Polk & Co.	Image pg. A7
1975	Westgate Terminal Inc comi	R. L. Polk & Co.	Image pg. A10
	fishermn	R. L. Polk & Co.	Image pg. A10
	Sun Harbor Industries canners	R. L. Polk & Co.	Image pg. A10
	State Health Dept Cannery	R. L. Polk & Co.	Image pg. A10
	Inspection	R. L. Polk & Co.	Image pg. A10
1970	NATIONAL MARINE TERMINAL INC	John M. Ducy	

Year	Uses	Source	
1970	COML FISHERMN	John M. Ducy	
	WESTGATE CALIFORNIA FOODS INC	John M. Ducy	
	CANNERS	John M. Ducy	
1966	NATIONAL MARINE TERMINAL INC COML FISHERMN	R. L. Polk & Co.	Image pg. A13
	WESTGATE CALIFORNIA CORP CANNERS	R. L. Polk & Co.	Image pg. A13
	WESTGATE CALIFORNIA PRODUCTS IC CANNERS	R. L. Polk & Co.	Image pg. A13
1961	Natl Marine Terminal Inc	R. L. Polk & Co.	Image pg. A16
	Westgate Cal Corp canners	R. L. Polk & Co.	Image pg. A16
	Westgate Cal Products Inc canners	R. L. Polk & Co.	Image pg. A16
1943	Sun Harbor Packing Co canners	San Diego Directory Co.	Image pg. A24
1938	ASun Harbor Packing Corr	San Diego Directory Co.	Image pg. A26

BELT ST

2025 BELT ST

Year	Uses	Source
1960	National Marine Terminal Inc	The Pacific Telephone Telegraph Co.

2031 BELT ST

Year	Uses	Source	
1948	Shepherd Diesel Marine	San Diego Directory Co.	Image pg. A23

2095 BELT ST

Year	Uses	Source
1955	Warehouse Water Front	R. L. Polk & Co.

2110 BELT ST

Year	Uses	Source	
1948	Langhorst H W restr	San Diego Directory Co.	Image pg. A23
1945	Henrys Cafeteria	San Diego Directory Co.	
1943	ABernardini Maurice restr	San Diego Directory Co.	Image pg. A25
1938	OAlernardini Mauricr restr	San Diego Directory Co.	Image pg. A27

2145 BELT ST

Year	Uses	Source
2013	RE STAITE ENGINEERING	Cole Information Services
2008	ISP ALGINATES INC	Cole Information Services
1960	Purchasing Dept & Plant	The Pacific Telephone Telegraph Co.

Year	Uses	Source	
1955	Kelco Co Genl Ofc SD Tr & Sav Bldg Purchasing Dept & Plant	R. L. Polk & Co.	
1948	Kelco Co plant	San Diego Directory Co.	Image pg. A23
1945	Kelco Co Genl Ofc S D Tr & Sav bldg Purchasing Dept & Plant	San Diego Directory Co.	
1943	Kelco chemicals	San Diego Directory Co.	Image pg. A25

2160 BELT ST

Year	Uses	Source	
1938	AStatc Dept of 1loalth Brau of Cannery In Npettion	San Diego Directory Co.	Image pg. A27

2162 BELT ST

Year	Uses	Source	
1938	B 3owrnan IR W cleaning compeunds	San Diego Directory Co.	Image pg. A27
	US Naval Reserve	San Diego Directory Co.	Image pg. A27
	ALLinderfelt K K indtrl c 0ng	San Diego Directory Co.	Image pg. A27
1933	Walsh M J mfg chemist	San Diego Directory Co.	Image pg. A28
	U S Navy Reserve Corps	San Diego Directory Co.	Image pg. A28
	Marine Service Center	San Diego Directory Co.	Image pg. A28
	Lobster Producers Assn whol fish	San Diego Directory Co.	Image pg. A28
	Keever R A	San Diego Directory Co.	Image pg. A28
	Cleveland M A vending machine mfr	San Diego Directory Co.	Image pg. A28
1927	Lesley J W	San Diego Directory Co.	Image pg. A30
	Neptune Sea Food Co	San Diego Directory Co.	Image pg. A29

2166 BELT ST

Year	Uses	Source	
1938	P Vaeant	San Diego Directory Co.	Image pg. A27

2205 BELT ST

Year	Uses	Source
2013	TENICO SYS CORP	Cole Information Services
2008	CAPITAL AIR SERVICES	Cole Information Services
	BAE SYSTEMS INC	Cole Information Services
	SOUTHWEST MARINE INC	Cole Information Services

BELT ST E

2025 BELT ST E

Year	Uses	Source	
1952	Fishermans Marine Co diesel fuel	R. L. Polk & Co. of California	Image pg. A20

2031 BELT ST E

Year	Uses	Source	
1961	Johnson Western Constructors marine	R. L. Polk & Co.	Image pg. A17
1952	Shepherd Diesel Marine	R. L. Polk & Co. of California	Image pg. A20

2095 BELT ST E

Year	Uses	Source	
1970	KELCO CO YARD	John M. Ducy	
1966	KELCO CO YARD	R. L. Polk & Co.	Image pg. A14
1961	Kelco Co yd	R. L. Polk & Co.	Image pg. A17
1952	Golden M H Constn whse	R. L. Polk & Co. of California	Image pg. A20

2145 BELT ST E

Year	Uses	Source	
1984	Kelco Co Plant chem mfrs	R. L. Polk & Co.	Image pg. A5
1980	Kelco Co Plant chem rnfrs	R. L. Polk & Co.	Image pg. A8
1975	Kelco Co Plant chem mfrs	R. L. Polk & Co.	Image pg. A11
1970	KELCO CO PLANT CHEM MFRS	John M. Ducy	
1966	KELCO CO PLANT CHEM MFRS	R. L. Polk & Co.	Image pg. A14
1961	Kelco Co plant	R. L. Polk & Co.	Image pg. A17
1952	Kelco Co plant	R. L. Polk & Co. of California	Image pg. A20

2205 BELT ST E

Year	Uses	Source	
2000	SOUTHWSTMARINE	Haines & Company	Image pg. A2

BELT/DEWEY ST

BELT/DEWEY ST

Year	Uses	Source	
1984	BELT/DEWEY ST	R. L. Polk & Co.	Image pg. A5
1980	BELT/DEWEY ST	R. L. Polk & Co.	Image pg. A8
1975	BELT/DEWEY ST	R. L. Polk & Co.	Image pg. A11
1970	BELT/DEWEY ST	John M. Ducy	

FINDINGS

BELT/SAMPSON ST

BELT/SAMPSON ST

Year	Uses	Source	
1984	BELT/SAMPSON ST	R. L. Polk & Co.	Image pg. A5
1980	BELT/SAMPSON ST	R. L. Polk & Co.	Image pg. A8
1975	BELT/SAMPSON ST	R. L. Polk & Co.	Image pg. A11
	BELT/SAMPSON ST	R. L. Polk & Co.	Image pg. A11

E BELT ST

2025 E BELT ST

Year	Uses	Source
1955	Fishermans Marine Co	R. L. Polk & Co.

2031 E BELT ST

Year	Uses	Source
1960	Johnson Western Constructors	The Pacific Telephone Telegraph Co.
	Shepherd Marine	The Pacific Telephone Telegraph Co.
	Long Marker & Howley Construction Co	The Pacific Telephone Telegraph Co.
1955	Shepherd Marine	R. L. Polk & Co.

2145 E BELT ST

Year	Uses	Source
2006	ISPALGINATESINC	Haines Company, Inc.
1992	Plant	PACIFIC BELL WHITE PAGES

2205 E BELT ST

Year	Uses	Source
2006	SOUTHWSTMARINE	Haines Company, Inc.
1992	S OUTHW E S T MARIN E IN C	PACIFIC BELL WHITE PAGES

SAMPSON

1347 SAMPSON

Year	Uses	Source
1960	Terminal	The Pacific Telephone Telegraph Co.
	Internatl Forwarding Co	The Pacific Telephone Telegraph Co.
	UNIVERSAL CARLOADING & DISTRIBUTING CO	The Pacific Telephone Telegraph Co.
	Westrn Freight Assn	The Pacific Telephone Telegraph Co.
	Cartage Div	The Pacific Telephone Telegraph Co.

Year	Uses	Source
1955	Internatl Forwarding Co	R. L. Polk & Co.
	Trans Continental Freight Co	R. L. Polk & Co.
	Universal Air Freight Corp	R. L. Polk & Co.
	Universal Car Loading & Distributing Co	R. L. Polk & Co.

1401 SAMPSON

Year	Uses	Source
1960	Car Del Printers	The Pacific Telephone Telegraph Co.
	Carter Delg Hyvis Oil Co	The Pacific Telephone Telegraph Co.
1955	Carter Delg Hyvis Oil Co	R. L. Polk & Co.

SAMPSON ST

1347 SAMPSON ST

Year	Uses	Source	
2000	No Current Listing	Haines & Company	Image pg. A3
1984	Ace High Transportation Inc frt trucking	R. L. Polk & Co.	Image pg. A6
1980	trucking	R. L. Polk & Co.	Image pg. A9
	G & H Transportation Inc trucking	R. L. Polk & Co.	Image pg. A9
	Ace High Transportation Inc frt	R. L. Polk & Co.	Image pg. A9
	Railway Frt Ofc	R. L. Polk & Co.	Image pg. A9
	& freight forwarders	R. L. Polk & Co.	Image pg. A9
	Atchison Topeka & Santa Fe	R. L. Polk & Co.	Image pg. A9
1975	Santa Fe Railway Frt Hae	R. L. Polk & Co.	Image pg. A12
	Santa Fe Trail Transportation Co trucking	R. L. Polk & Co.	Image pg. A12
1970	SANTA FE RAILWAY FRT HSE	John M. Ducy	
	SANTA FE TRAIL TRANSPORTATION	John M. Ducy	
	CO TRUCKING	John M. Ducy	
1966	INTERNATIONAL FORWARDING CO	R. L. Polk & Co.	Image pg. A15
	UNIVERSAL CARLOADING 6 DISTRIBUTING CO FORWARDING AGT	R. L. Polk & Co.	Image pg. A15
	WESTERN PARCEL SERVICE CARTAGE DIV	R. L. Polk & Co.	Image pg. A15
1961	Intl Forwarding Co	R. L. Polk & Co.	Image pg. A18
	Universal Carloading & Distr Co	R. L. Polk & Co.	Image pg. A18
	Western Parcel Serv cartage div	R. L. Polk & Co.	Image pg. A18

1348 SAMPSON ST

Year	Uses	Source	
1984	San Diego Gas & Electric Co Silver Gate Station power sta	R. L. Polk & Co.	Image pg. A6

Year	Uses	Source	
1980	San Diego Gas & Electric Co Silver	R. L. Polk & Co.	Image pg. A9
	Gate Station power sta	R. L. Polk & Co.	Image pg. A9
1975	Gate Station power sta	R. L. Polk & Co.	Image pg. A12
	San Diego Gas & Electric Co Silver	R. L. Polk & Co.	Image pg. A12
1970	SILVER GATE STATION POWER	John M. Ducy	
	SAN DIEGO GAS & ELECTRIC CO	John M. Ducy	
1966	SAN DIEGO GAS 6 ELECTRIC CO SILVER GATE STATION POWER STA	R. L. Polk & Co.	Image pg. A15
1961	SD Gas & Elec Co Silver Gate Station	R. L. Polk & Co.	Image pg. A18
1952	S D Gas & Elec Co Silver Gate Station	R. L. Polk & Co. of California	Image pg. A21

1401 SAMPSON ST

Year	Uses	Source	
1985	NATIONAL PETROLEUM INC SAN DIEGO 23	PACIFIC BELL WHITE PAGES	
	KENDALL MOTOR OILS	PACIFIC BELL WHITE PAGES	
1984	ft Southwest Marine shipbldrs	R. L. Polk & Co.	Image pg. A6
	National Petroleum Inc	R. L. Polk & Co.	Image pg. A6
1980	ft Southwest Marine shipbldrs	R. L. Polk & Co.	Image pg. A9
	National Petroleum Inc	R. L. Polk & Co.	Image pg. A9
1975	ft San Diego Marine Construction Corp shipbldre	R. L. Polk & Co.	Image pg. A12
	National Petroleum Co	R. L. Polk & Co.	Image pg. A12
1970	SHIPBLDRS	John M. Ducy	
	NATIONAL PETROLEUM CO	John M. Ducy	
	FT SAN DIEGO MARINE CONSTRUCTION CO	John M. Ducy	
1966	STAR & CRESCENT FERRY CO SHIP BLDRS	R. L. Polk & Co.	Image pg. A15
	FT SAN DIEGO MARINE CCNSTRUCTION CO SHIPBLDRS	R. L. Polk & Co.	Image pg. A15
	CONCOURSE PRINTERS	R. L. Polk & Co.	Image pg. A15
	CARTER DELG OIL CO WHOLESALE OIL	R. L. Polk & Co.	Image pg. A15
1961	ft San Diego Marine Construction Co	R. L. Polk & Co.	Image pg. A18
	Car Del Prntrs	R. L. Polk & Co.	Image pg. A18
	Carter Delg Oil Co	R. L. Polk & Co.	Image pg. A18
1952	Carter Delg Oil Co	R. L. Polk & Co. of California	Image pg. A21

SAMPSON/BELT ST

SAMPSON/BELT ST

Year	Uses	Source	
1984	SAMPSON/BELT ST	R. L. Polk & Co.	Image pg. A6
1980	SAMPSON/BELT ST	R. L. Polk & Co.	Image pg. A9
1975	SAMPSON/BELT ST	R. L. Polk & Co.	Image pg. A12

SAMPSON/E BELT

SAMPSON/E BELT

Year	Uses	Source	
1961	SAMPSON/E BELT	R. L. Polk & Co.	Image pg. A18
1952	SAMPSON/E BELT	R. L. Polk & Co. of California	Image pg. A21

SAMPSON/E BELT ST

SAMPSON/E BELT ST

Year	Uses	Source	
1984	SAMPSON/E BELT ST	R. L. Polk & Co.	Image pg. A6
1980	SAMPSON/E BELT ST	R. L. Polk & Co.	Image pg. A9
1975	SAMPSON/E BELT ST	R. L. Polk & Co.	Image pg. A12
1970	SAMPSON/E BELT ST	John M. Ducy	
1966	SAMPSON/E BELT ST	R. L. Polk & Co.	Image pg. A15

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
400 East Belt St	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
BELT/DEWEY ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
BELT/SAMPSON ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
SAMPSON/BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
SAMPSON/E BELT	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1960, 1956, 1955, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
SAMPSON/E BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
1347 SAMPSON	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
1347 SAMPSON ST	2013, 2008, 2006, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
1348 SAMPSON ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
1401 SAMPSON	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
1401 SAMPSON ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
1955 BAY FRONT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1950, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
1995 BAY FRONT ST	2013, 2008, 1995, 1991, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1940, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
1995 BAY FRONT ST	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2025 BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2025 BELT ST E	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2025 E BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2031 BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2031 BELT ST E	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1960, 1956, 1955, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2031 E BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2095 BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2095 BELT ST E	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1965, 1962, 1960, 1956, 1955, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2110 BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1940, 1933, 1927, 1921, 1907, 1903
2145 BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1956, 1952, 1950, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2145 BELT ST	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2145 BELT ST E	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1976, 1971, 1965, 1962, 1960, 1956, 1955, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2145 E BELT ST	2013, 2008, 2000, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2160 BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1933, 1927, 1921, 1907, 1903
2162 BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1921, 1907, 1903
2166 BELT ST	2013, 2008, 2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1933, 1927, 1921, 1907, 1903

FINDINGS

Address Researched	Address Not Identified in Research Source
2205 BELT ST	2006, 2000, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2205 BELT ST E	2013, 2008, 2006, 1995, 1992, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903
2205 E BELT ST	2013, 2008, 2000, 1995, 1991, 1989, 1985, 1984, 1980, 1976, 1975, 1971, 1970, 1966, 1965, 1962, 1961, 1960, 1956, 1955, 1952, 1950, 1948, 1945, 1943, 1940, 1938, 1933, 1927, 1921, 1907, 1903

Source Page Images Appendix

TP - **Adjoining** ✓ **Source** Haines & Company

BAY FRONT ST 2000

BATES — SAN DIEGO S

BATES 92115 SAN DIEGO

WEALTH CODE 2 D

5700 ROHER Sanna 619-501-2360 +9
ROHER Sanna 619-501-2370 +9
WULFORD Sam 619-287-2636 8
5702 XXXX OO
5704 XXXX OO
5705 CANO Vidal 619-582-5613 +9
DAROC Hamido A 619-287-1867 +9
JUAREZ Juan 619-582-8854 +9
5706 XXXX OO
5714 ARPES Maria Teresa 619-286-1509 8
BASAVE Ignacio 619 287-8926 +9
BURLAZA Asiano 619-582-8130 +9
5715 PENA Rosa 619-583-4359 8
SALL Coumba 619-286-4293 +9
5720 XXXX OO
5721 JACOBS Instane 619-582-9659 +9
5722 KANG Young Joo 619-582-5679 +9
SALAS Blanca 619-286-8340 +9
5723 XXXX OO
5727 CASTELLANOS Jacqueline 619-582-7319 8
TORRES Victoriano 619-582-0442 +9
5728 APARTMENTS
LEAL Octavio C 619-286-0941 +9
MEJIA Arturo 619-229-6514 8
MUNEZ Jose Antonio 619-582-5629 +9
PINTO Daisy Lorena 619-265-8634 +9
VAZQUEZ Araceli 619-582-7216 8
5728 APARTMENTS
5729 XXXX OO
5731 FARIAS Maria T 619-286-4968 +9
5734 APARTMENTS
FATOU Fatou 619-287-4359 +9
HERNANDEZ Abraham 619-286-8130 +9
JAUREGUI Rocha Olga 619-286-8877 8
OROZCO Elba E 619-287-5735 +9
SACCHI Antonio 619-287-7884 +9
5734 APARTMENTS
5737 IBANEZ Emilio 619-582-5032 8
5738 CHAN Yuni Maria 619-286-1342 +9
5739 TORRES Arturo 619-583-9686 +9
5740 XXXX OO
5741 CASTILLO Yamileth 619-582-3246 +9
DURAN Tony 619-287-6627 +9
5742 ARREGUIA Lucia Ibarra 619-229-1296 +9
5743 MARQUINA Enrique 619-229-0950 4
5744 ALCANTARA Juan 619-287-7355 +9
5745 PEREZ Mauricio 619-287-4821 +9
5745 ARIAS Mauricio 619-259-1184 +9
LEYVA Lara Javier 619-582-7488 +9
SOSA Leonardo 619-287-1561 +9
5747 RAMIREZ Gerardo 619-287-5721 +9
5748 PINAL Laura J 619-286-6495 +9
5749 XXXX OO
X 58TH
* 0 BUS 49 RES 32 NEW

BATES LN 92021 EL CAJON

WEALTH CODE 3 0

1241 RIDENOUR Kelly C 619-449-6254 +9
*RIDENOUR Steven L 619-449-3328
1243 XXXX OO
1245 CODNER William J 619-448-5267 4
1247 XXXX OO
1249 WORTHY Elaine 619-585-3743 +9
WORTHY Greg 619-585-3743 +9
1251 *LINDSLEY Daniel E OO 7
1253 XXXX OO
1255 XXXX OO
1257 BATES Catherine P 619-449-3827
1267 XXXX OO
1268 GASSERT Lynn E 619-596-2225
*GASSERT Shelly 619-596-2225
1271 *JENSEN J L 619-582-5484
1273 *VOLKMAR M OO 7
1275 XXXX OO
1277 XXXX OO
1278 *FINCH Jack 619-449-5482 6
1279 LUCE David E 619 442-4617 +9
1280 *DELIA Anthony OO 7
1281 XXXX OO
1282 *WAMMACK Edward C 619-562-9487 1
1283 XXXX OO
1285 KINSELLA Charlene 619-562-6671 +9
1286 *SPITZER David E OO 7
1287 *BATES Robert Dr 619-448-3365 4
X PEPPER DR
X ORANGE GROVE RD
* 0 BUS 27 RES 5 NEW

BATHURST PL 92020 EL CAJON

WEALTH CODE 5 0

X HEMPDEN CT
1398 *POWELL Bruce A 619-447-9694 7
1404 *MOJA Becky OO 8
1438 MCTIGHE John J 619-440-7961
*MCTIGHE Theresa 619-440-7961
1454 *JOHNSON Carol OO 7
1455 *RILEY D 619-441-1815 4
1466 XXXX OO
1467 *QUINN William F OO +9
1478 *GRESHORE Linda Y OO 7
1479 *HARVEY John R 619-588-5705
1482 *YALE Scott R OO 7
1483 *BOTTICELLI Vincent 619-579-0349
1494 BUTLER Henry 619-440-0506
*BUTLER HARRY PHD 619-448-8389
*BUTLER Lula 619-440-0506
*UTLER ELIZABETH R 619-448-8389 +9
1512 XXXX OO
1517 *SHAW David C 619-444-8943
1524 *GAFFNEY Brenda L OO +9
1527 NELSON J R 619-444-5783 5
*NELSON L E 619-444-5783 5
1540 *SPENCER James I OO 7
1543 *FARIS John T 619-440-4521
1552 HAFEEZ Anwar 619-440-5288
*HAFEEZ Patricia 619-440-5288
1557 *DAVIS Kathy OO 7
1568 *DUUSSE Joseph 619-441-3746 3
1576 *BARTLING Harry E OO 7
1584 BUTT Adam 619-401-9183 7
* 2 BUS 27 RES 3 NEW

BAY BLVD 91910 CHULA VISTA

111 *SWEETWTR HI SC 619-628-8592 +9
215 *ANTHONY'S FISH GROTTOS RETAIL 619-425-8079
*ANTHONYS FISH GRTTO 619-425-4200
222 XXXX OO
224 XXXX OO
225 *CALIF CAFE&GRILL 619-420-8231 +9
*GOOD NIGHT INNS SOCHULA VST 619-425-8290 8
248 XXXX OO
250 XXXX OO
270 XXXX OO
271 *EL TORITO MEXICAN RESTAURANT 619-425-5013
285 *SOUP EXCHANGE 619-585-8866
295 XXXX OO
X F
340 XXXX OO
350 XXXX OO
X G
X H
X I
630 *APPLIED INDUSTRIAL TECHNOLOGY 619-425-2005 7
*FEDRL MOGUL 619-420-4832 7
*GAMBRO HEALTHCARE SERVS 619-420-6725 8
*KELLY PAPER STORE 619-423-1114 7
*WEST MARINE 619-422-1904 8
660 BUILDING
*A CONSUMER CREDIT COUNSELING 619-469-0600 8
*BARRIO CHANO INTL 619-427-2310 5
*CINTAS 619-425-0505 7
*COMNCTNS GENESIS 619-420-4328 8
*COMNCTNS GENESIS 619-420-0342 8
*COMNCTNS GENESIS 619-423-6979 8
*CONSMR CREDIT COUNSELING SERV 619-498-0600 +9
*GENESIS COMMUNICATIONS 619-422-7748 7
*INFO COMMCTN ENTERTAINMNT INC 619-425-2560 7
*MAXIMUS 619-420-8771 +9
*MATL M LEARNING CTR 619-563-7415 5
*NEWARK ELECTRONICS INC 619-691-0141 8
*SCHER VOIT BROKERGE 619-498-4560 4
*VOIT COMRCL BROKRGE 619-498-4560 4
669
X J W
740 *COMNTY HEALTH GROUP 619-422-0422 4
*COMNTY HEALTH GROUP 619-498-3620 8
*COMNTY HEALTH GROUP 619-498-3530 8
780 *HIGH RISK AUTO INSURANCE 619-427-9460 7
*LASON INTERNATIONAL 619-409-9971 +9
*PIMA MEDICAL INSTITUTE 619-425-3200 +9
X K

ZIP CODE 91911 CHULA VISTA

1011 *CA ELECTRIC SUPPLY 619-437-2370 1
1021 *BAY VIEW ELECTRC 619-691-8400 8
*BAYVIEW COMMERCE CENTER 619-425-1191 +9
*BRUNSWICK MATTRESS WAREHOUSE 619-426-3120
*DICKSON DESIGN 619-425-9144
*INTL DATA ENTRY 619-425-3150 5
*T M RENDELENG 619-691-0100 5
*UNI HOSIERY SOCKS 619-442-0124 2
1031 BUILDING
*AUGEN WECKEN PLASTICOS 619-420-7648 7
*CHEMORY FIBERPRO CRPT&RO CLNG 619-420-3537 6
*JOHN'S CUSTOM GOLF AWARDS 619-422-5846 8
*LOMELI LEATHER FASHIONS 619-425-2063
*M G M 619-420-5473
*MARCUS ANDRADE&SONS CSTM WDWRK 619-425-1160 8
*MEDIFORE 619-425-8034 +9
*ORDELA/ORDEL CPA'S INC 619-425-8830 4
*PARTNERSHIPS WITH INDUSTRY 619-498-3797 8
*PHILLIPSON J M INTERNATIONAL 619-428-0078 8
*PROFSNL SOFTWARE 619-425-4980 4
1031
1048 *CELEBRITY PRODUCTS 619-428-5001 6
*H GRABELL&SONS INC 619-427-6799 7
*INTER ELECTRONICS CORP 619-479-9577 8
*INTL BALLOONS INC 619-425-4030 +9
*LORENA MEXICAN PRODUCTS INC 619-691-7825 7
*MEXICAN TRADE GROCERIES 619-426-4534 8
1055 BUILDING
*ALL TECH SERVICES 619-691-8324 7
*ANYTIME SIGN SYSTEMS 619-426-0122 6
*ANYTIME SIGN SYSTMS 619-428-0123
*JANITORS CLOSET 619-428-3002
*M A ZINC PRODUCTS 619-423-5418 2
*WAHLCO PLUMBING&ELECTRIC 619-420-7070 7
*WAHLCO PLUMBING&ELECTRIC 760-469-5050 8
*WAHLCO PLUMBING&ELECTRIC 619-425-4777 8
*WAHLCO PLUMBING&ELECTRIC 619-424-3030 8
*WAHLCO PLUMBING&ELECTRIC 619-435-1998 8
*WAHLCO 619-239-7070 8
PLUMBING&ELECTRIC
*WAHLCO PLUMBING&ELECTRIC 619-336-1078 8
1055
1065 *AUTUMN GRAPHICS 619-425-8300 5
*INTGRTD SYSTEMS ANALYSIS 619-409-7500 +9

BAY BLVD — 91911 CONT.

*NEXT DAY PRINTD TEES 619-425-8300 6
1575 *CHANTEL 619-425-1950 7
ENTERPRISES
*DELI SHOPPE THE 619-425-2843
*HAYES SECURITY NETWORK THE 619-691-1272 7
*PRO-TECT PROFESSIONAL PROTCTVE 619-691-1272 +9
*RESCUE RECORDS 619-479-3660 7
1085 *FRANKLIN JOSEPH STUDIOS 619-420-0720 7
*MICKEYS FINE DSSRTS 619-535-1416
*RESOURCE CONSULTANTS INC 619-425-3136 8
*RESOURCE CONSULTANTS INC 619-425-0258 8
*FLAG CRAFTERS 619-585-1044 8
X PALOMAR
1101 *M D INTRVWNG SVS 619-424-4500 6
1111 *O E D SYSTEMS INC 619-424-4644 6
*SD WORKFORCE PARTNERSHIP INC 619-424-1112 5
*SOUTH COUNTY CAREER CENTER 619-424-1112 5
*VIETNAM VETERANS 619-423-3414 5
1120 *BOTTOM LINE ACCOUNTING&MANGMNT 619-575-2400 +9
*HOME ESSENTIALS 619-423-8677 8
1121 *CAL-STATE SEAL SAN DIEGO 619-424-6901 +9
*COPY LINK 619-424-6000 +9
*JUST LEATHER 619-575-3322
*LEATHER JACKET FACTORY 619-575-3322
*PARKER STORE 619-424-9901 8
*SD LEATHER JACKET FACTORY THE 619-575-3322 8
*ULTRASON CORP 619-424-4650 6
1124 *OCEAN NUTRITION CORPORATION 619-628-1050 7
*T-REX PRODUCTS 619-424-1050 +9
1126 *WAW WHOLESALE 619-424-7902 5
1131 *CALTNAY MANUFACTURING CORP 619-575-8117
*VISTA WHEEL CO 619-428-6243 8
1141 *FIVE DOLLAR&UP BARGAIN WRHS 619-575-6804 6
*PALOMAR DISCOUNT CENTER 619-423-2460 +9
*US MEXICO TRADING 619-575-4555 6
1150 *GRAINGER INDUSTRIAL SUPPLY 619-575-2025 8
*GRAINGER INDUSTRIAL SUPPLY 619-575-2025 8
1151 *AMER LONGEVITY 619-575-9532 8
*AQUALARM 619-575-4011
*PIC&PAY 99 CENTS 619-423-5999 5
*WELLNESS LIFESTYLES INC 619-575-2884 +9
1161 BUILDING
*BIO METABOLICS INC 619-424-7580 8
*BIO NUTRTNL SPRT CT 619-424-9552 1
*CHULA VST BOLT 619-575-4416
*FASHION 6TH AVE 619-575-1661 +9
*I U N E 619-424-7590
*INTL UNIV FOR NUTRITION EDUC 619-424-7590 7
*LACES 4 LESS 619-429-4091
*LISA NAILS 619-423-3004 +9
*PC CST CONNECTION 619-423-5905 +9
*R&R DELTA SUPPLIES 619-575-8402 4
*SEWING INDUSTRY SLS 619-429-4000
*5 DOLLAR CLOTHING WAREHOUSE 619-575-8900 +9
1161
X STELLA
X ADA
X BELLE
1470 *APEX BULK COMMODITIES 619-423-4346 +9
*LAND AND SEA R V STORAGE 619-423-8400 7
*M C R ELCTL CONTRS 619-575-4601 5
*VONSABROWNIES 619-423-6531 4
*WESTRN SALT CO 619-423-3388
1476 XXXX OO
X PACIFIC AV
X ANITA
1595 XXXX OO
* 127 BUS 19 RES 23 NEW

BAY CIR 92118 CORONADO

WEALTH CODE 8 0

X VISTA PL
923 XXXX OO
930 *HARPST Frances G 619-435-9359
933 XXXX OO
945 WILSON Deborah 619-437-6654 7
WILSON Penrhyn 3D 619-437-6654 7
X MARGARITA AV
* 0 BUS 5 RES 0 NEW

BAYARD 92109 SAN DIEGO

WEALTH CODE 4 9

PACIFIC BEACH AREA

4005 XXXX OO
4025 *CRISCOLA Tony 858-272-0810
X BRAEMAR LN
4078 XXXX OO
X PACIFIC BEACH DR
4104 ABDALLA Rick 858-581-1929 6
BISHOP Jane 858-581-1929 6
4110 BECKETT Marcia 858-483-6908
4111 CUNNINGHAM John 858-270-4111 7
CUNNINGHAM Mary Beth 858-270-4111 7
4120 XXXX OO
4121 LUBBARD Kim 858-483-3989 +9
4127 *TAMMEN Billy F OO 7
4138 DEBELAK James 858-272-1527 6
X OLIVER AV
4204 XXXX OO
4205 GELARDI Chas 858-272-2506
4211 *LAIRD Roy N 858-272-2437
4212 *ALDERSON John A 858-483-8413
4217 *MENARDO Michael J OO 8
4225 REARWIN Colleen 858-274-3327 5
REARWIN Stephen 858-274-8827 7

BAYARD — 92109 CONT

*REARWIN Steve 858-274-3327 5
4226 *GAVIN Barbara A OO 7
4239 *SUGITA Iseya F OO 7
4242 *MORXADO Lea OO 8
X REED AV
4277 XXXX OO
4278 XXXX OO
4285 KEENAN John K 858-483-0407 +9
4287 WILLEN Lea 858-490-9006 +9
4289 LOPEZ Tim H 858-581-2135 8
X THOMAS AV
4310 XXXX OO
4316 XXXX OO
4318 MASTOS K 858-270-4518
4340 *BETTERWAY BUSINESS SOLUTIONS 858-274-3955 +9
*GLOBALVISION NETWORK 858-274-3955 +9
4348 *CREATIVE TOUCH FOR HAIR&NAILS 858-274-6736 8
*GARY BURBO HAIR 858-274-8231 4
X GRAND AV
4406 *CAL PROP MNG 858-483-3534 3
4408 XXXX OO
4410 *HOLT DAVID TRAVEL 858-273-3318
*HOLT TRAVEL&TOURS 858-273-3318
4412 *A POLISHED LOOK 858-273-8245 1
*ELECTROLYSIS&SKIN 858-273-5437 4
*POLISHED 858-273-8245 0
4414 *P B PRINTING 858-273-8335 +9
4418 *DRAKE LEN 858-483-6911
*DRAKE REALTY 858-483-6911
4418 XXXX OO
4425 *BINARY LABS INC 858-274-6520 6
*CHEM-AQUA 858-273-4969 +9
*LS ENTERPRISES LEASING 858-273-6344 8
*ZWEIG DAVID S ATTY 858-274-1818 6
4435 XXXX OO
4441 XXXX OO
X HORNBLEND
X GARNET AV
X FELSPAR
4517 MCMANUS Michael 858 273-5023 8
4527 FRANCZYK S 858-483-6744 +9
4529 COOKE Pat 858-274-9178 +9
4530 BRITT Joey B 858-272-0790
4531 XXXX OO
4533 LAWLOR Jim F 858 272-3539 8
*SAFETY AMERICA 858-273-7538 7
4535 MCGEE Kevin 858-581-6516 7
4537 XXXX OO
4539 XXXX OO
X EMERALD
4552 XXXX OO
4556 MONTOYA Stacie B 858-273-1294 8
4557 XXXX OO
4561 ADAMS Jeffrey L 858-270-2719 8
4563 XXXX OO
4579 CRUSING Regina E 858-270-0604 8
MASSEY Steven 858-272-0349 7
4582 XXXX OO
4584 POPERNIK Stephen B 858-270-2612 +9
4586 XXXX OO
X DIAMOND
4725 XXXX OO
4726 XXXX OO
X MISSOURI
4758 KODEK David C 858-273-7682 8
4765 *HARGRAVE Celia J OO 8
4765 XXXX OO
4778 XXXX OO
4777 *NAULE Warren C OO +9
4780 XXXX OO
X CHALCEDONY
4815 XXXX OO
4824 LYNCH Brian 858-270-9374 +9
*MCSHANE Michael P OO +9
4828 XXXX OO
4827 COCK Nicole 858-273-8121 +9
X LAW
4878 *MORENO Preston OO 8
4887 XXXX OO
4898 XXXX OO
X BERYL
4918 *SCHANE Nellie B OO 7
4917 XXXX OO
4928 XXXX OO
4935 GRIESBECK Oliver J 858-274 9951 8
4937 MORRIS Tara 858-274-9708 +9
X WILBUR AV
X LORING
5018 WILKES Maria 858-274 5868 6
5027 COUTO Vivaine C 858-272-7448 +9
5028 *BRADBURY K 858-273-7945 8
5029 BACON Kimberly 858-274-8484 +9
X OPAL
5056 XXXX OO
5075 XXXX OO
5076 XXXX OO
X TOURMALINE
5118 *LAFONTA Sidney 858-483-8397
5126 XXXX OO
5130 XXXX OO
5134 WILLIAMS L Fredrick 858-274-8065 8
5136 XXXX OO
X SAPPHIRE
5150 JOHNSON E 858-488-7749 4
5150 GREITENBACH B 858-484-0208 +9
KNIGHT Ashley 858-488-6123 +9
5161 XXXX OO
5170 XXXX OO
5173 XXXX OO
X TURQUOISE
* 18 BUS 63 RES 19 NEW

BAYBERRY CT 92154 SAN DIEGO

WEALTH CODE 7 0

X FUCHSIA LN
4383 *SIMSUANGCO Teodoro 619-690-9019
4386 *GRAY R 619-690-0934
4393 *CRUZ Paul P OO 7
4396 *GUILLERMO Oscar B 619-690-4775
* 0 BUS 4 RES 0 NEW

BAY FRONT 92113 SAN DIEGO

X CROSBY
1995 *CONTL MARITIME INC 619-234-8851
X DEWEY
* 1 BUS 0 RES 0 NEW

BAY HILL RD (93) 91915 CHULA VISTA

WEALTH CODE 8 0

2341 XXXX OO
2344 *GASCON Chris R OO +9
2348 *CATUBIG Reinier OO 7
2352 *FOGG Carl E OO +9
2353 REMS Eric 619-656-3491 8
* 0 BUS 5 RES 2 NEW

BAY LEAF DR 91910 CHULA VISTA

WEALTH CODE 8 0

X HORIZON VIEW DR
328 *CORREA Jewell S 619-498-0895 +9
*CORREA Z 619-585-0673 +9
330 XXXX OO
334 GONZALEZ Francisco 619-427-7657 +9
336 *ORTIZ Ignacio 619-585-0803
338 *COTA Rosana A OO +9
340 *MCKINLEY Dan 619-422-6901
342 CARLOS Jose 619-427-3611
PAULIN Oscar 619-420-9618
345 *HOWELL Tom S 619-691-1413 0
348 *ADATO Neil OO 7
352 *FELIZARDO B B 619-585-9523 7
356 XXXX OO
358 *COLAOLLA Ignacio V OO 7
360 *PAZ Isaac H OO 7
362 BOYLES James H 619-426-0630 8
364 *TERVEL Felza OO 7
368 MIYAJI Ace Rev 619-426-5147
368 *STANLEY Tim OO 8
372 XXXX OO
374 *SANTOS Abe OO 7
375 XXXX OO
376 *BETECH Arturo K 619-691-8992
378 *KINCAID Randy OO 7
379 *MARMITO Leon G 619-585-7251
YAMSUAN Joselito V 619-585-0858 +9
380 GIRTEN Mar 619-585-1083
GIRTEN Richard 619-585-1083
GIRTEN Richard 619-585-8169 6
381 *SEMAH Anwa OO 8
382 *SAYAMA Katsumi OO 7
383 *AQUINO Eugene G OO +9
384 *MCCUMBER Mary G OO 7
386 *BREEDLOVE Valerie OO 7
388 *TALARO Mildred OO +9
390 *WENGER C A 619-420-4427 1
391 JOHNSON Ricky Pastr 619-422-4644
392 ARRIAGA Natalie A 619-425-2731 +9
394 *RUSSELL David W OO +9
396 *BOQART James M 619-420-5382 +9
X SMOKY CIR
* 0 BUS 40 RES 10 NEW

BAYLOR AV 91902 BONITA

WEALTH CODE 8 0

X REDLANDS PL
704 *LIZARDE Juan R OO +9
708 XXXX OO
712 *KOJIMA K OO +9
718 *VERDUGO Ramon OO 7
717 *HAWKINS Maxine C OO 7
721 *DARLING Fernando P 619-421-6655
724 *RAMAN W T OO 7
725 *GARRISON Michael A OO 7
728 GARCIA Grace 619-482-6831
*GARCIA Steve 619-482-6831
731 MULDOON Maryellen 619-482 1915
*MULDOON Patrick 619-482-1915
732 *KEHRLI Mark L OO 7
734 *MALCOLM Tess A OO 7
735 *GILBERT S A 619-421-8480 7
736 *MALOF Yolanda C OO 7
737 *NEW IMAGE GRAPHICS&DESIGN 619-656-0686 8
738 *SAKURAI Takao OO 8
* 1 BUS 17 RES 2 NEW

BAYLOR AV 91913 CHULA VISTA

WEALTH CODE 8 0

700 XXXX OO
701 GRUBER Barbara 619-218-0229 8
GRUBER David 619-218-0229 6
708 HIMANGO Mark 619-482-4264 1
729 GAINES Donald 619-216-0925 +9
GAINES Eling 619-216-0925 +9
730 XXXX OO
732 XXXX OO
736 B Oscar J 619-421-2899 +9
739 MAEDA Manabu 619-421-4967 7
740 FEILDSTEIN Philip 619-656-0387 8
741 XXXX OO
742 *JOHNSON Edward H 619-656-2112 5
X MILLS
760 XXXX OO
766 *YOUNGBLOOD Carey N OO +9
772 *MAJCHRZAK B 619-421-3013 4
778 SUNDRY Carlos 619-421-4257
*SUNDRY Charles 619-421-4257
* 0 BUS 18 RES 4 NEW

BAYLOR DR 92115 SAN DIEGO

WEALTH CODE 8 0

X HORIZON VIEW DR
328 *CORREA Jewell S 619-498-0895 +9
*CORREA Z 619-585-0673 +9
330 XXXX OO
334 GONZALEZ Francisco 619-427-7657 +9
336 *ORTIZ Ignacio 619-585-0803
338 *COTA Rosana A OO +9
340 *MCKINLEY Dan 619-422-6901
342 CARLOS Jose 619-427-3611
PAULIN Oscar 619-420-9618
345 *HOWELL Tom S 619-691-1413 0
348 *ADATO Neil OO 7
352 *FELIZARDO B B 619-585-9523 7
356 XXXX OO
358 *COLAOLLA Ignacio V OO 7
360 *PAZ Isaac H OO 7
362 BOYLES James H 619-426-0630 8
364 *TERVEL Felza OO 7
368 MIYAJI Ace Rev 619-426-5147
368 *STANLEY Tim OO 8
372 XXXX OO
374 *SANTOS Abe OO 7
375 XXXX OO
376 *BETECH Arturo K 619-691-8992
378 *KINCAID Randy OO 7
379 *MARMITO Leon G 619-585-7251
YAMSUAN Joselito V 619-585-0858 +9
380 GIRTEN Mar 619-585-1083
GIRTEN Richard 619-585-1083
GIRTEN Richard 619-585-8169 6
381 *SEMAH Anwa OO 8
382 *SAYAMA Katsumi OO 7
383 *AQUINO Eugene G OO +9
384 *MCCUMBER Mary G OO 7
386 *BREEDLOVE Valerie OO 7
388 *TALARO Mildred OO +9
390 *WENGER C A 619-420-4427 1
391 JOHNSON Ricky Pastr 619-422-4644
392 ARRIAGA Natalie A 619-425-2731 +9
394 *RUSSELL David W OO +9
396 *BOQART James M 619-420-5382 +9
X SMOKY CIR
* 0 BUS 40 RES 10 NEW

BAYLOR AV 91902 BONITA

WEALTH CODE 8 0

X REDLANDS PL
704 *LIZARDE Juan R OO +9
708 XXXX OO
712 *KOJIMA K OO +9
718 *VERDUGO Ramon OO 7
717 *HAWKINS Maxine C OO 7
721 *DARLING Fernando P 619-421-6655
724 *RAMAN W T OO 7
725 *GARRISON Michael A OO 7
728 GARCIA Grace 619-482-6831
*GARCIA Steve 619-482-6831
731 MULDOON Maryellen 619-482 1915
*MULDOON Patrick 619-482-1915
732 *KEHRLI Mark L OO 7
734 *MALCOLM Tess A OO 7
735 *GILBERT S A 619-421-8480 7
736 *MALOF Yolanda C OO 7
737 *NEW IMAGE GRAPHICS&DESIGN 619-656-0686 8
738 *SAKURAI Takao OO 8
* 1 BUS 17 RES 2 NEW

BAYLOR AV 91913 CHULA VISTA

WEALTH CODE 8 0

700 XXXX OO
701 GRUBER Barbara 619-218-0229 8
GRUBER David 619-218-0229 6
708 HIMANGO Mark 619-482-4264 1
729 GAINES Donald 619-216-0925 +9
GAINES Eling 619-216-0925 +9
730 XXXX OO
732 XXXX OO
736 B Oscar J 619-421-2899 +9
739 MAEDA Manabu 619-421-4967 7
740 FEILDSTEIN Philip 619-656-0387 8
741 XXXX OO
742 *JOHNSON Edward H 619-656-2112 5
X MILLS
760 XXXX OO
766 *YOUNGBLOOD Carey N OO +9
772 *MAJCHRZAK B 619-421-3013 4
778 SUNDRY Carlos 619-421-4257
*SUNDRY Charles 619-421-4257
* 0 BUS 18 RES 4 NEW

BAYLOR DR 92115 SAN DIEGO

WEALTH CODE 8 0

X COLLIER AV
4705 *KALL William E 619-287-6077
4717 XXXX OO
4723 EASLEY Bill 619-286-3600 5
4729 *MCMULLEN N 619-582-7142
4730 BLUM Dani F Li Lan 619-582-2963
4738 *MORGAN David E 619-583-1198
4737 *KASK Miles 619-286-4656 8
4745 *RUDGWAY Kristin OO 7
4751 *ALVAREZ Christopher R 619-229-8163 +9
4759 *KREFT F N 619-582-6718
X ALCORN PL
4803 *BOZAK Wm 619-288-7249

BAYONA LOOP (91) 91910 CHULA VISTA

WEALTH CODE 6 0

502 *GELACIO R C OO 8
504 *GUIRO Nestor A OO 8
506 *WILLIAMS Alanna L OO 7
508 *KANTRUD Terry OO +9
510 *KRUEGER Kurt OO 8
512 *PESSAH J OO 8
514 *LALANGAN Nazario D OO 7
516 *KLEWELL Kenneth W OO 7
518 *KATS Diana OO 7
520 *MORAL Dulieb K OO 7
522 *MIGUEL Frank T OO +9
524 *ZOLL Thomas A OO 7
526 ELEFANTELEAND Elaine 619-482-0172 7
*ELEFANTELEAND Erlito 619-482-0172 7
530 *RODRIGUEZ B OO 7
532 *SIEMER Gerald A OO 7
536 *UBUNAO Rodolfo OO 7
544 *ALCANTARA Lizzie O OO +9
546 *TOLBERT Diane S OO +9
548 *PLANK Edward L OO +9
551 XXXX OO
552 *NAU Janis OO +9
563 *FIGURACION Pedro A OO +9
554 *DEAVENSPORT David L OO +9
578 VELIES Andres 619-482-7060 +9
581 NICIANO Jovito 619-482-1581
*NICIANO Milagros 619-482-1581
583 *BARRERA Renato V OO 7
X CALLE FLORECITA
585 *ALMUETE Alberto T OO 7
588 WATANABE Shinichiro 619-818-8582 +9
587 *NICLAT Bodget 619-482-4705 8
588 *MURAOKA Tad OO 7
590 *CARROZZA Paul F OO 7
* 0 BUS 33 RES 10 NEW

BAYONNE DR 92109 SAN DIEGO

WEALTH CODE 7 0

PACIFIC BEACH AREA

X YOSEMITE
X INGRAHAM
3410 *FRANKENBERGER Eric 858-273-9572 +9
3411 *HERNANSON Melvin 858-272-9512
3422 TURNER Beverly 858-273-3687
*TURNER Henry G 858-273-3687
3423 *TASSI Louis 619-276-9080 3
3429 *POYNTER Wayne OO 7
3434 *FERRIS John OO +9
3437 PETERSON Marilen E 858-483-7312 +9
3440 *PRATT Jan 858-270-5460
3445 FORTUNE Scott 858-581-1166 +9
3446 *BARRELL D K 858-274-1428 2
3451 CUNNINGS B P 858-272-4503
3452 BUCKEL Arthur 858-274-6783
*BUCKEL Barbara L 858-274-6783
3462 XXXX OO
X LACIMA DR
3503 *GREER Jeffrey Y OO 7
3504 CARROLL Wm B 858-272-9265
3508 *SINKS James H 858-270-9051 5
3515 *MYERS E 858-273-3279 0
3516 GREEN Benjamin A 858-274-1817
3521 RYAN Michael 858-273-1215 7
3524 BROWN Wayne L 858-483-7448 3
3525 XXXX OO
3529 *VANHORN Melvin L 858-273-9057
3530 OLSON Jan E 858-270-6825
3535 *KISFALUDY Charlie OO 8
3538 *ATHA A A 858-274-2306
3541 CLARK Wallace L 858-274-1809
3544 XXXX OO
3547 *MCCRACKEN Gerald L OO 7
3548 HAMILTON Donald L 858-270-9818
*HAMILTON J L 858-483-4909 8
3560 *DECK Judy A OO 7
3565 *CRUZ Richard G OO 7
3566 XXXX OO
X LAMANCHA DR
3603 *LAVITE Ricardo J OO 7
3610 *BETLACH Thomas L 858-274-5499 +9
3611 *STAND Edward M OO 7
3615 *SMITH Oliver 858-274-2417
3616 *ZELLER Sam 7
3622 BRAUER John 858-274-2858
3627 *CLAPP Morley J 858-274-5015
3628 *PEKRAS John P 858-483-3373
3633 *ELDRED Cynthia L OO 7
3639 *WOODING Herbert C OO +9
3640 WHEELER Glen 858-270-5686
*WHEELER Sharon 858-270-5686
3644 NELSON John 858-270-2034 +9
NELSON John D 858-270-5047 7
3645 ZAHAREVITZ A T 858-270-8232 8
ZAHAREVITZ S N 858-270-8232 8
3651 *FARRIS Barry 858-272-2032
3657 *OLSEN O W 858-274-2295
3658 HEFFERNAN William J 858-490-0442 7

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TP -

Adjoining ✓

Source Haines & Company

BELT ST E 2000

BELL DC CT 92109 CONT.
2189 *HOLLEY Anna OO 7
2191 FULLER John 858-581-2073
2193 *LARSON A W 858-270-0453
* 0 BUS 13 RES 2 NEW

BELLVINE TRL 92019 EL CAJON

WEALTH CODE 4.0

X VANVECHTEN RD
1144 *RODVOLD Peter C 619-588-5580
1145 LASSEN Daryl J 619-444-8383
*LASSEN Lynn A 619-444-8383
1147 *SIMPKINS Michael A OO +9
1149 *DUNN Barbara 619-401-8523 8
* 0 BUS 5 RES 1 NEW

BELLWOOD CT 91977 SPRING VALLEY

NO LISTINGS

BELMONT AV 92116 SAN DIEGO

WEALTH CODE 8 0

X MOUNTAIN VIEW DR E
3801 *COOPER D M 619-291-2693
3819 DOMINELLI Maria 619-280-6744
*DOMINELLI Victor 619-290-6744
3820 *MORIERFIELD W Neil 619-281-5533
3859 *WILL Fred A OO +9
3858 *ROSS V 619-281-7074
3861 GRISHAM Kathy 619-283-3819 5
GRISHAM Tom 619-283-3819 5
3868 *BUSH Lynne L OO 7
3867 *CORBY Elwood M OO 7
3875 *WILLIS Steven 619-282-1480
3878 *KOHRS Lewis Paul 619-281-0691
X 39TH
* 0 BUS 12 RES 1 NEW

BELMONT AV 91950 NATIONAL CITY

X KENTON AV
106 PORTER Max 619-267-6868
111 XXXX OO
119 UYEA Hazu 619-267-9319
124 XXXX OO
127 AGUILERA Diego 619-267-6776
AGUILERA R 619-267-8892
133 LOPEZ Victoria 619-262-8525 +9
135 XXXX OO
138 XXXX OO
X DREXEL AV S
214 HAYES Patrick * 619-470-3468 8
HAYES Yolanda 619-470-3468 9
217 XXXX OO
222 TORRES Esperanza 619-470-3017 8
235 XXXX OO
301 *OROZCO Jose A OO +9
307 *GONZALES Jesus N OO +9
315 *KOPF Marvin R 619-267-4156
316 *DURAN Victor OO 8
321 *PANEL Robert L OO 7
324 *VENEGAS Roberto OO +9
329 *FLORES R F OO 7
330 *SODERBERG Robert K OO 7
340 SANAMORES C Jr 619-472-0282 0
X 4TH E
* 0 BUS 23 RES 4 NEW

BELMONT AV N 91950 NATIONAL CITY

WEALTH CODE 4.0

8 XXXX OO
7 *INFANTE Raul S OO +9
14 *ALATORRE H V OO +9
23 XXXX OO
24 *ASTORGA Jose O OO +9
33 *WALSH Thomas J OO +9
34 *CADENA Vanessa 619-264-2650 +9
GARCIA Barbara H 619-263-7223 8
43 *MOLINA Efren OO 9
44 *ALEMAN F OO +9
X DIVISION E
102 XXXX OO
104 *PORTILLO Anthony W OO +9
113 *BERUUANAN Vicente 619-937-8599 5
114 *RANGEL Monica 619-264-5074 7
123 *HILL G L 619-264-1483
124 *FORTNER William E 619-263-7672 8
133 *HERNANDEZ Cleo OO +9
134 *LEON April OO +9
139 XXXX OO
145 *SOPHER Jason P OO +9
X CERVANTES AV
X BONITA DR
204 *CARBAJAL Lois C OO +9
219 MATTESON L A 619-264-8554
222 *TENORIO Jesus 619-263-5182 4
* 0 BUS 23 RES 11 NEW

BELMORE CT 92020 EL CAJON

WEALTH CODE 8.0

X WINDMILL VIEW RD
1909 *MORAN James J 619-258-8234
1911 *BEAM Fred 619-562-4004
1918 LANE Dean S OO 2
1927 XXXX OO
1930 BROOKS R C 619-258-2078 7
1936 *CONNER Michael E OO 8
1942 *ZOUMAS S Alex 619-258-2606 7
1951 *MCHONE C R 619-562-3781
1954 *GOODRICH James E OO 7
1959 XXXX OO
1967 XXXX OO
1968 *HARDEGE S 619-258-9523 8
1975 XXXX OO
1979 LEE Andrew 619-595-8036 8

BELMORE CT 92020 CONT.
*LEE Julie 619-595-8036 6
1982 XXXX OO
1990 *MCELDERRY Henry J 619-448-3053
1993 *RODRIGUEZ Colombia 619-586-1736 8
RODRIGUEZ Colombia 619-562-2932 +9
1996 *GOLDEN Ralph 619-562-1332
* 0 BUS 20 RES 1 NEW

BELT E 92113 SAN DIEGO

X SAMPSON
2205 *SOUTHWEST MARINE bic 619-238-1000 0
X SICARD
* 1 BUS 0 RES 0 NEW

BELVEDERE 92037 LA JOLLA

WEALTH CODE 7 0

X VISTA DEL MAR AV
304 XXXX OO
324 XXXX OO
325 BEAVER John M 858-456-3804
328 XXXX OO
331 XXXX OO
334 FIELDS R D 858-454-1989
GILLESPIE Grant C 858-459-1837 3
336 *VANSLYKE L P 858-459-3680 +9
340 FITZGERALD L J DDS 858-459-7066
341 ECKHART Karen 858-454-8283
351 *ANNINO Joseph S OO 7
358 *HOUSE Michael OO +9
359 DUCHARME L H 858-454-8703 7
X MONTE VISTA AV
402 *HAUER Malacia OO 7
405 ATWATER Jennifer 858-459-6908 7
ATWATER Jonathan 858-459-6908 7
407 *GRANT Igor 858-459-8574
410 *BERMAN Ralph R OO 8
421 HYSLOP Chas P MD 858-454-5458
424 XXXX OO
431 *IRSDALE Eugene G OO 7
439 XXXX OO
440 *GARDELLA Michael J 858-459-4444
442 XXXX OO
447 *DAVIS E B OO 7
450 *MATTSON Philip T 858-454-8319
458 XXXX OO
459 *DEVERICK Vivienne 858-459-2729
460 XXXX OO
461 *MIRANDON Chas 858-459-5983
462 XXXX OO
464 XXXX OO
469 *SPURRIER Kas C OO +9
X LAJOLLA BLVD
* 0 BUS 33 RES 3 NEW

BELVIA LN 91911 CHULA VISTA

WEALTH CODE 1 0

X INDUSTRIAL BLVD
719 *TACATA Jesse 619-423-2180
733 XXXX OO
734 *GOMONES E S OO 7
755 XXXX OO
743 GONZALEZ Norma Alicia 619-423-0764 8
745 GARRIDO Ricardo 619-575-7963
* 0 BUS 8 RES 0 NEW

BELVUE DR 91941 LA MESA

NO LISTINGS

BEND 92071 SANTEE

WEALTH CODE 8 0

X MAST BLVD
9804 ESTRADA Wanda 619-596-7821 8
9805 *FOX Ken 619-448-2581
*RICHARDSON&HOLLA- 619-449-6130
ND
9818 XXXX OO
9817 STEWART Donald 619-562-2956
STEWART Renee 619-562-2956
9820 XXXX OO
9824 *TOWE Michael 619-449-5534 +9
9825 WADDELL Robt D 619-449-3873
9831 XXXX OO
9835 FRY L 619-562-4676
*FRY R 619-562-4676
9838 *HERNANDEZ Anthony M OO +9
X GRANDFORK DR
* 1 BUS 12 RES 2 NEW

BENEDICT AV 92020 EL CAJON

X JOHNSON AV N
735 XXXX OO
759 XXXX OO
780 XXXX OO
X RALEIGH AV
800 *A B C SUPPLY CO INC 619-447-9963 4
847 *BENEDICT AVE STRG 619-449-2375 8
*U-HAUL CO 619-443-8960 2
INDEPENDENT DEALER
* 3 BUS 3 RES 0 NEW

BENFIELD CT 92113 SAN DIEGO

WEALTH CODE 1 0

4401 JACKSON Robert 619-264-0393 4
4402 *RUCKER Albert R 619-262-4452
4405 XXXX OO
4407 XXXX OO
4420 *JOSEPH Jeffrey L OO 7
4423 *CRDWELL Charles L OO 8
4424 *DELBOSQUEZ Saul OO 7
4428 BOZEMAN Susana S 619-264-8147 3
4430 HOSFIELD David 619-263-3529 +9

BENFIELD CT 92113 CONT.
HOSFIELD Michelle 619-263-3529 +9
4432 *LAMAR C L OO 7
4433 *BOYD Marva J OO +9
4434 *MCCOLLUM F C OO 7
4435 *JAMISON Nora D OO +9
4436 *ROBINSON Gregory K OO 7
4437 XXXX OO
4440 KNAPP John 619-262-8946
KNAPP Vicky 619-262-8946
4442 *JOHNSON Wilhe J OO 7
4444 XXXX OO
4445 *OPEDOU Diabea A OO 7
4451 XXXX OO
4452 *LONG John W OO 8
4453 COLIO C R 619-262-0657
4454 MEMDOLA M 619-262-1639 8
4455 XXXX OO
4456 XXXX OO
X 45TH S
* 0 BUS 27 RES 4 NEW

BENICIA 92110 SAN DIEGO

WEALTH CODE 3 0

1045 XXXX OO
1055 XXXX OO
1133 XXXX OO
X GAINES
X RILEY
1213 COLEMAN Courtney 619-542-1867 +9
ELAM Doug 619-263-3227 +9
RODRIGUEZ Delbert 619-266-9525 +9
RODRIGUEZ Delbert 619-266-9125 +9
1233 XXXX OO
1235 *SACCO Louis F 619 299-5745
DAVIS Diana C 619-574-0852 +9
ED Richarson 619-574-0852 +9
ROOD David K 2D 619-291-4125 +9
1237 XXXX OO
X LAURETTA
1286 KEOLANUI Craig 619-231-1380 +9
* 0 BUS 14 RES 6 NEW

BENJAMIN PL 92020 EL CAJON

WEALTH CODE 7.0

1051 *PETER Khalid Anhsan 619-442-8186 4
1058 *PETER Sabah 619-579-8125 +9
1074 ROLF David Sr 619 440-2407
*ROLF Jeanette Sr 619-440-2407
1088 *GARREN Richard K 619-447-5853
1094 *COOPER Phyllis OO 8
1095 XXXX OO
X CHASE AV W
1107 *WEBB O G 619-444-5824
1110 *BENHAM Jas W 619-442-1638
1123 *HEVENTHAL Wm M 619-440-0631
1124 *FRONIUS Jean T OO 7
1135 XXXX OO
1152 VITALIS M 619-401-8825 +9
1153 XXXX OO
1173 *COIZART Joyce OO 7
1165 XXXX OO
1193 *BEACH E 619-440-0770
1198 *LINCOLN Howard 619-442-8553
* 0 BUS 18 RES 2 NEW

BENJAMIN HOLT RD 92114 SAN DIEGO

WEALTH CODE 7 0

6802 *BEN F C OO 7
6808 *MANONGDO Walter G OO 6
6814 *SPANCINO M M OO 7
6820 XXXX OO
6826 *DBTERA Erlinda E 619-479-9321
6832 HERRON Chas 619-475-3241
*HERRON Estrella 619-475-3241
6838 *BETRUNE 619-267-2271 1
ELEMENTARY SCHOOL
* SD SC ELEM BETHUNE 619-267-2271 0
6836 *AUSTIN Tab E OO 7
6850 *NAVALES George B OO 8
6856 *ABAD Lowell B OO 7
6862 *DIMAGIBA Rodolfo OO +9
6874 *CABALFIN Jose S OO 7
6880 *CORTEZ Efren B OO 7
6886 XXXX OO
X JAKE MILLS CT
X WOODMAN S
* 2 BUS 14 RES 1 NEW

BENNY WAY (94) 92019 EL CAJON

NO LISTINGS

BENSON AV 92114 SAN DIEGO

WEALTH CODE 3 3

X 61ST
6101 ASHAY Bounpraseuth 619-527-4029 0
6103 *LOOMAN Richard J OO 7
6105 *SPIKES Jerry OO +9
6128 XXXX OO
6134 *BAYVIEW BAPTIST CHURCH 619-262-6384 6
*BAYVIEW CHRISTIAN CULTRL BKSTR 619-263-8667 7
*NUBIA LEADERSHIP ACADEMY 619-263-0050 8
* SD SC CHRTR NUBIA ACADEMY 619-262-0050 +9
X JENNA CT
6219 XXXX OO
6247 *ROBINSON Jimmie L OO +9
6251 *TANAY Joseph G OO +9
6275 *DUMAS Jone OO +9
6299 *DONARDO Wilfred C OO +9
6313 *NALAB Kane OO 8
X KRISTIN CT
X HENSON
X ROTH CT
6415 THAMMARATH Mattea 619-527-9977 +9

BENSON AV 92114 CONT.
THAMMARATH Chan 619-264-4791 3
X TEROL CT
6431 XXXX OO
6451 *MARCOS Joseph P OO 7
X JOJO CT
6471 *COOKE Benson Jr 619-264-5858
6491 ARAUJO Domingo 619-263-1283 +9
X 65TH
6545 XXXX OO
X TREEWOOD
X SWEETWOOD
6555 *ESTELLA Ramon E OO 7
6565 XXXX OO
6575 CEBU Antonio 619-262-4849 8
6585 *SPELLMAN Leon M OO +9
X PAGEL PL
6603 *AGUAYO Jose A 619-262-2455
6605 XXXX OO
6611 XXXX OO
6641 XXXX OO
6651 *PAGGETT Bobby 619-264-0566 7
X WOODMAN
6659 CARBAJAL Jorge 619-266-0194 +9
6671 *RABUSA Jerry G OO 7
6681 *VANCE Rolland 619-263-1669
X RITCHEY
6710 *SACHSE Gus F 619-262-6650
6741 *PIFARI Edw 619-262-5244
6745 XXXX OO
6788 FALETUFUGA Onesan 619-263-7160 +9
X AVIATION DR
6799 ABRAMSON Cleveland 619-262-2864
X 68TH
6808 *MILNER Ernest Scpo 619-262-1770
6836 MCKINDRA Ro J 619-263-5152
6846 XXXX OO
X REXVIEW DR
X 69TH
6901 *CARTER Mark C OO 7
6911 *THOMS Robert OO 7
6912 *KEY John F 619-262-9298
6919 WILLIAMS Rose L 619-262-8419
WILLIAMS Rosie Lee 619-262-0785 +9
6929 *WRIGHT William C OO 7
6927 EMPANDA Guadalupe 619-263-2493 8
6925 ALLEN A Beverly 619-262-9725
*ALLEN Wesley H Rev 619-262-9725
ALLEN Wesley H Rev 619-263-6574 8
6935 MAYS Louis G Jr 619-263-8858
MAYS Maree 619-263-8858
6938 *PAGE Henry Rev 619-262-6588
6943 STRINGER Pearline 619-263-8642
6944 XXXX OO
6953 FOSTER Albert Jr 619-266-2070 8
FOSTER Ollie Mary 619-264-1328 1
6958 XXXX OO
6959 XXXX OO
6963 *ZAMORA Jesus A OO 8
6968 *HAYES Aaron E 619-262-5118
6973 *ROBBINS Otho 619-263-5869
6980 *GARRISON Olivia M OO 7
6983 XXXX OO
X WELLING WAY
7003 *WATSON G L Mrs 619-262-5801
WATSON G L Mrs 619-527-1676 +9
7015 *TURNER Tonya S OO +9
7023 XXXX OO
7027 *JOHNSON James T OO 7
7038 *LYNCH R OO 7
7051 *RUSSELL Dessie L OO 7
7069 AVERY Frances 619-266-2196 7
*AVERY James 619-263-2196 7
7085 *BRAGGS James R OO +9
7075 *RILES James E OO 7
7078 *SOLTERO Manuel OO 7
7095 *ROSS Fred 3D 619-262-2732
* 4 BUS 74 RES 16 NEW

BENTLEY DR 91977 SPRING VALLEY

WEALTH CODE 7.0

X HARTZEL DR
9502 *NELSON B L 619-460-2345
9507 *CLAYTON Melvin L 619-697-9748
9512 *SUTHERLAND Joseph P OO 8
9515 *REBOLLEDO Judy A OO 7
9520 SHEPHERD Morris 619-460-3505
*SHEPHERD Nancy 619-460-3505
9526 XXXX OO
9529 BROWN Dani Mark 619-469-1305
9533 *KLEIN Glen R 619-466-8254
9534 GALVIN Erica 619-451-4325 +9
9539 *DUDLEY Donn a C OO +9
9545 *PUCHATY Edward OO 7
9548 *WARREN Richard F OO 8
9553 *BEEMAN Geo W 619-466-8044 7
9558 *PIFER Joseph A OO 7
9568 PHILLIPS Don M F 619-589-1666
X HARTZEL CREST
* 0 BUS 16 RES 2 NEW

BENTON PL 92116 SAN DIEGO

WEALTH CODE 6 0

X MOUNTAIN VIEW DR E
5111 KRACHT Robert L 619-440-5388 +9
5112 XXXX OO
5117 BAILY Jan 619-281-8797
BAILY Luther 619-281-8797
5124 XXXX OO
5127 *CHIPMAN Robert C OO 7
5130 *ALLEY K OO +9
5131 *SCHWEIHS Larry 619-282-0326
5137 *STEMPER Geo R 619-263-2832
5147 XXXX OO
5148 XXXX OO
5156 *LOOKE Joseph P OO 6
5157 XXXX OO
5162 *HUDGENS J 619-584-4311
5163 XXXX OO
5169 *CASSADY Glena J OO +9
5175 BROADHURST Clifton 619-262-9139
*BROADHURST Mary E 619-262-9139
X 35TH
5202 XXXX OO
5207 *MILLER Linda M OO 7
5208 *REED Bruce J 619-280-8273 0
5209 XXXX OO
* 0 BUS 22 RES 3 NEW

BENTON PL (98) 92020 EL CAJON

649 *MEGURO Danny K OO +9
650 *CONTRERAS Daniel OO +9
651 *SIMONCALA Genaro M OO +9
653 RUCKI Alexander 619-590-0377 8
*RUCKI Virginia 619-590-0377 8
657 *GUTIERREZ Brian P OO +9
659 *DOMINGO Justin OO +9
660 PUTRUS Wael 619-440-2901 +9
664 *STALKER Robin OO +9
673 *BIGLETE Faustino A OO +9
679 *WAGNER George J OO +9
685 *PITTS Stewart F OO +9
692 *SWEETWOOD A 619-588-4606 8
693 *REED Rick OO +9
* 0 BUS 14 RES 11 NEW

BENTON WAY 91941 LA MESA

WEALTH CODE 6 0

X COLONY RD
4804 *RAKESTRAW Earl C 619-469-3438
4814 XXXX OO
4827 *KAPALLA David B OO 7
4834 *MORRISON Michael E OO 7
4835 *BALAZAR Christopher 619-468-9566 2
4844 *VARGAS Kate OO +9
4845 *CARLISLE Hilda M OO 7
4850 *MULLINS Carl E OO 7
4851 XXXX OO
4856 XXXX OO
4858 XXXX OO
4861 *BONVENTRE Dani 619-469-8721
4868 XXXX OO
4871 XXXX OO
X AMHERST
* 0 BUS 14 RES 1 NEW

BENTWOOD DR 92021 EL CAJON

WEALTH CODE 3 0

X PEPPERWOOD DR
826 *LAMB Gary OO 8
X PLUMERIA DR
X GARYWOOD
735 XXXX OO
737 *YASUDA John K OO 7
742 XXXX OO
743 *ALLRED Chris 619-448-8294
ALLRED Geoff 619-258-0157 +9
748 XXXX OO
X PARKLAWN DR
* 0 BUS 7 RES 1 NEW

BERENDA PL 92020 EL CAJON

WEALTH CODE 5 0

1475 XXXX OO
1487 POLLACK Cecelia 619-442 9333
*POLLACK Robt Col 619-442-9333
1493 *SEEBER Kieran G OO +9
1498 *LARSEN John T 619-441-0985
1510 *WALLACE J 619-579-8311 8
1513 *WEIL C J 619-447-4988 8
1522 *IWANAGAPENROSE M 619-568-1293 9
1525 XXXX OO
1538 *TITTERINGTON Dale D 619-444-1970
1541 *HANSON Gary N OO 7
1550 *HORN Dick 619-444-8018 8
1555 PETERS Ed 619-589-7688 +9
*PETERS Edw J 619-442-9163
1583 *APPLEMAN Todd OO +9
1588 *BENNETT Rick B 619-444-7570
1574 *ROMERO Rene R 619-444-8897
1581 *LUFFE Steven P OO 8
1582 *HANEY Ross H 619-447-8391
1594 *YOUHOUSE V OO 7
X CHESWICK CT
1607 *JOHNSON Fred H 619-444-8438
1610 HOSS Fred W DDS 619-442-7551
1632 *FLEMING John T OO 7
1647 MATOSIAN Geo S 619-447-3453
*MATOSIAN Pamela J 619-447-3453
1676 *HIGGINS Wm F 619-447-5351
X WESTWIND DR N
* 0 BUS 26 RES 3 NEW

BERKELEY DR 91941 LA MESA

WEALTH CODE 4 0

X HARBINSON AV
7201 *BOURDETTE Rob 619-461-6337
7206 XXXX OO
7207 *ROSENBORG Richard L OO +9
7215 PETERS Jeanette 619-697-7280
*PETERS Neil 619-697-7280
7219 XXXX OO
7224 *ANDERS Denver L OO +9
7225 XXXX OO
7230 *LAVACE Nancee OO 7
7237 XXXX OO
7242 *BONNETT Richard 619-465-5846
7243 *GREEN Marvin E Mrs 619-469-2747
7248 *BALKE V P 619-466-0018
7249 *LAWRENCE Reti OO 7
7254 XXXX OO
7255 *BARRISH Frances P 619-667-3540 +9
7260 *HEISLER Elaine OO 7
7266 XXXX OO
7267 XXXX OO
7271 XXXX OO
X PURDUE AV
* 0 BUS 20 RES 3 NEW

BERKVIEW LN 91977 SPRING VALLEY

WEALTH CODE 4 9

X ILDICA
9011 *SCHEIN Lesl L OO +
9025 BOST Ricky 619-589-2481
*BOST Shirley 619-589-2481
9028 *BORING MACHINE THE 619-466-1340
*HARRIS John V Jr 619-466-8569
9037 *CARAWAY Clyde A OO +
9040 FOX Larry 619-465-2288
FOX Larry 619-303-2526 +
*FOX Sally 619-465-2288
FOX Sally 619-303-2526 +
9049 *REECE Donald R OO
9052 *DEVANEY Marilou 619-469-1547 +
*DEVANEY Michael 619-469-1547 +
9061 *CARRETERO Robert M OO +
9064 *DUEL Kent OO
9073 *MEDINA John A OO
9076 *RANSOME Crystal 619-644-8960 +
9104 *MAIS Shepard L 619-461-5449
9105 *GAYTAN Eliazar OO
9110 *MERWETHER George A OO +
9115 *WILBORN Donald OO
9116 *JUDD Daniel L OO
9122 HARRIS Albert 619-587-6968 +
9127 *TUMALAD Juanito F OO
9128 *HAINES James F OO +
9131 *FABELA Manuel P OO
9134 *CHAMPION Craig 619-463-3443
9139 MITCHELL Cynthia 619-462-7211
*MITCHELL Mitch 619-462-7211
9143 *AGOSTA A M 619-462-8459
9149 XXXX OO
9165 LANDERS Charles E 619-698-5440
9163 *AMBROSE Stephen W OO +
9184 XXXX OO
9167 XXXX OO
* 1 BUS 34 RES 12 NEW

BERKWOOD DR 91977 SPRING VALLEY

WEALTH CODE 4 0

9014 MCQUAID Janet 619-461-1005
*MCQUAID Peter 619-461-1005
9026 XXXX OO
X ILDICA
9035 *FREELAND Gary L 619 697-9842
9041 *PALMA Stephen F OO
9050 *MELBOURNE Eileen J OO
9053 *LEFEVER Yvonne J OO
9062 XXXX OO
9065 *EVANS David R OO
9074 *FISHER Robert E 619-589-6604
9077 XXXX OO
9089 *RHODES John 619-697-1041
9102 *GARNER John F OO +
9103 *TIMMINS Thos A Jr 619-698-8383
9111 *CREGAN Scott P OO +
9120 *MIDDLETON John D 619-469-0457
9121 *BENJAMIN Tennessee P 619-462-6525
9133 *OLSON Chas C OO +
9141 *ARNESEN Carl A OO
9142 *BAKER Edgar D OO
9150 JONES Natasha 619-469-0292 +
JONES Marcus 619-469-0292 +
*WALKER Dana D 619-697-4367 +
* 0 BUS 23 RES 6 NEW

BERLAND WAY 91910 CHULA VISTA

WEALTH CODE 7 0

X WILLOWCREST WAY
447 DENNIS Alan 619-421-0420
LILLEYMAN Hazel 619-421-0429
449 *WILLIAMS Earl S 619-421-8835
451 *OLSHEFSKI Peter J OO
452 *BRECKINRIDGE Bill 619-421-5135
458 *SANDERS Corwin L OO
481 *OSUNA Jesse OO +
487 *HAYNES Billy D OO
489 *HANNING Victor C OO
497 *MAXWELL Robert C OO
470 *KYM Reed D OO
482 XXXX OO
485 XXXX OO
488 XXXX OO
453 *BORE Walter 619-421-2977
494 *HOUSTON W B Lcdr 619-421-2972
497 XXXX OO
X FLOYD AV
501 *LAWSON Walter D Buck 619-421-3192 +
502 *VICEK Andrew M OO
527 *ELLIS Carmen M OO
505 DOBYNS John E 619-421-4508
DOBYNS John E 619-421-9321
511 *VASQUEZ Raymond M OO
512 XXXX OO
517 *LARSEN Loran OO +
516 *HALUPA Paul Jr 619-421-5101
523 BROWN Cheryl L 619-216-3546 +
524 BROWN Susanne D 619-421-6984 +
530 *HELMER Dale P 619-421-8780
531 *MANNONG Nestor Randy OO
534 *CLARK Mildred G OO
535 *SMITH Daniel E OO
536 XXXX OO
539 *MENDEZ Antonio OO +
542 *KEPHART Suzi OO
543 XXXX OO
547 CRUZ Carlos M 619-421-6959
MORETTO Carlos 619-421-6959
550 *MAUTNER Thos 619-421-3855
553 *SLAUGHTER Helen C OO
558 *PELLHOELTER Dennis OO
561 *QUEVARA Victor R 619-482-3068
566 XXXX OO
569 *DUKE Billy 619-656 8720
574 XXXX OO
577 *BURRIS Donny M OO
582 *GOLDEN David L OO
585 *BERRANO Simon OO
590 XXXX OO
X LORI LN
* 0 BUS 19 RES 6 NEW

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TP -

Adjoining ✓

Source Haines & Company

SAMPSON ST 2000

SALEM CT 92109 CONT
8261 HIGGINBOTHAM Betsy D 858-488-4102 8
8311 JONEALL M 858-488-5831 8
8371 BLACKWOOD P 858-488-5724
X BAYSIDE WALK
* 1 BUS 20 RES 2 NEW

SALINA 92020 EL CAJON

WEALTH CODE 4 0

X PAULINE AV
8011 PICTOR Bruce 619-444-8111 4
PICTOR Bruce 619-443-4224 7
PICTOR Linda 619-444-8111 4
PICTOR Linda 619-440-4224 7
804 • MOGUTS 619-444-1633 +9
813 •ANDREW Don F 619-444-7437
820 •KEEFER Jean 619-444-9560
825 XXXX 00
834 •PEACE Dorothy 00 7
837 •MUNGE Robert 00 7
846 •HOWARD Gaela M 00 7
849 GROSSE Edwin G 619-440-1723
GROSSE Nancy A 619-440-1723
858 •BERGENA G D 00 +9
863 •PHILLIPS Alan G 00 +9
872 HARJAC Abdul Salam 619-401-9372 8
888 •FORD Sherry L 00 7
891 •WAGNER Mel J 00 +9
896 XXXX 00
X RENETTE AV E
901 •FINK Esther C 00 7
906 •LUXER Brent 619-444-1850
• MOBILE TV REPAIR 858-679-0304
913 •SORENSON Keith D 00 +9
920 XXXX 00
935 XXXX 00
944 •KOPSKA Teresa 00 7
947 •CHOATE Weldon R 00 7
952 XXXX 00
953 •AGUAYO Marcelia 619-444-8796
956 •CHASE Matthew E 619-444-4859
961 •ROBLEN Gary 00 7
968 CUMMINS Wade O 619-442-2119
CUMMINS Wade O 619-442-2200 8
969 •CARMIE Alice 00 7
970 •HELZER Forrest L 619-442-6003
973 BALEISIS Lina 619-441-2708 +9
985 •BEAUDOIN Raymond G 619-444-0280
X RUBY
* 2 BUS 35 RES 6 NEW

SALLISAW CT 92120 SAN DIEGO

WEALTH CODE 7 0

5825 MATHEWS Lyle D Col 619-582-7234
MATHEWS Susan 619-582-7234
5835 •FAZLI F 619-583-7068 0
5836 XXXX 00
5845 •RIEDY John A 00 +9
5846 BERZINS Aldis 619-229-0809
BERZINS Mara 619-229-0809
5855 CEBULA Andy L 619-286-1588 6
5856 •BLACKMAN Steven L 00 7
5865 •SOMMER Michael T 00 7
5868 •BAGOASHI A 619-286-5358 1
5875 •FRANKLIN Gloria 00 7
5876 XXXX 00
5885 XXXX 00
5898 XXXX 00
X MARGERUM AV
* 0 BUS 15 RES 1 NEW

SALOT 91950 NATIONAL CITY

WEALTH CODE 3 0

X 7TH E
703 •CHRISTIANSEN Richd 619-267-2849
704 •KITAGAWA Geo 619-479-9000
707 •MURLBURT Jas H 619-479-9418
708 BORBON Rebecca 619-479-5378 +9
712 •GAMEZ Edward R 00 7
716 •WAGONER Shirley M 00 7
717 •SUEJNA P 00 +9
720 XXXX 00
X TOLAS CT
724 •PALLARES Maria L 619-470-1274 8
X 8TH E
* 0 BUS 9 RES 2 NEW

SALTA PL 92105 SAN DIEGO

WEALTH CODE 9 0

X CHOLLAS PKY N
3302 •BANDA Yolanda D 00 7
3312 KOZAK Edw P 619-283-4078
KOZAK H B 619-283-4078
3315 CONCEPCION H Jr 619-282-2472
•CONCEPCION Lucy 619-282-2472
3322 PHIPHAK Sara 619-584-4528 7
3325 •DESSNER Andrew 619-284-5287
X STREAMVIEW DR
* 0 BUS 7 RES 0 NEW

SALTBUSH LN (90) 92019 EL CAJON

WEALTH CODE 8 0

1261 XXXX 00
1217 XXXX 00
1233 •CORREA Shane D 00 +9
1241 •BRANCH Alan 00 +9
1249 •HANKS Betty J 00 +9
1257 •TERRENING Alan N 00 7
1265 •PERRY Walter J 00 7
1273 •WEBSTER Brock G 00 +9
1281 •CHEWNING H 00 8
1289 •ROSELLO Doug 619-444-1891 6
1305 •PEPIN Becky 00 8
1317 •BRADFORD E 619-440-7486 6
1341 TOOVEY Mary 619-579-1256 +9
1353 •BLAETTLER Tom 00 7
1365 •GOULD Stephen J 619-579-8790 8

SALTBUSH LN 92019 CONT
1377 •BRESHEARS Vance F 619-442-5146 0
1389 •SNOW Karen R 00 7
1395 XXXX 00
* 0 BUS 18 RES 5 NEW

SAMANTHA LN 91977 SPRING VALLEY

8630 XXXX 00
8640 GREEN Lashawn 619-462-6361 +9
* 0 BUS 2 RES 1 NEW

SAMPSON 92113 SAN DIEGO

WEALTH CODE 0 4

X EVERETT AV
X 28TH S
202 ARZATE Fidel 619-696-5369 6
206 •MONTES Jose A 00 +9
222 XXXX 00
X CLAY AV
236 WRIGHT Willie 619-234-6372 8
241 XXXX 00
244 XXXX 00
X FRANKLIN AV
314 HUEZO Jose Rafael 619-233-4626 +9
315 •CASSERLEY Norman 00 +9
319 XXXX 00
323 FLORES Juan P 619-235-8008 +9
• OLMEDA Juana 00 7
324 PADILLA Eduardo 619-236-0953 +9
325 •CASTILLO Dewey S 00 7
326 XXXX 00
329 XXXX 00
339 XXXX 00
X OCEAN VIEW BLVD
X HARRISON AV
512 XXXX 00
514 MULLINS Kochis S 619-232-8131 +9
515 ORTIZ Elva 619-234-5345 +9
518 XXXX 00
524 ACEVEDO Gisela 619-338-0814 +9
526 ALVAREZ Esther 619-338-0818 7
528 •MCCLENNAN Ross L 619-233-8790
529 XXXX 00
531 GONZALEZ Blanca 619-702-8185 +9
534 •HURTADO Abel 00 8
546 • O-D MARKET 619-232-0584 0
X IRVING AV
603 XXXX 00
609 XXXX 00
611 XXXX 00
615 VARELA Daniel 619-234-0185 +9
618 XXXX 00
621 XXXX 00
623 XXXX 00
629 OCAMPO Carlos 619-696-0862 +9
635 XXXX 00
644 •RUIZ Alfredo C 00 7
646 XXXX 00
X JULIAN AV
704 HOLLMAN Sofia 619-234-0429
721 XXXX 00
724 •BRANCH Nadine R 00 +9
748 XXXX 00
X KEARNY AV
X LOGAN AV
906 ALONSO Ely 619-702-3170 +9
908 XXXX 00
910 XXXX 00
911 CONTRERAS Leticia 619-239-6537 +9
912 XXXX 00
914 RIVERA Ruperto 619-696-5082 8
ZAMORA Mayra 619-235-9480 +9
930 XXXX 00
934 XXXX 00
938 XXXX 00
X NATIONAL AV
X NEWTON AV
X MAIN
X HARBOR DR
1304 • PROPULSION CONTROLS ENGINEERING 619-235-0981
1347 XXXX 00
X BAY FRONT
* 2 BUS 53 RES 15 NEW

SAMS HILL RD 92021 EL CAJON

WEALTH CODE 1 0

1518 SUNSET VIEW APTS
ARCIGA Antonio A 619-449-5825 8
AZIMI Kenn A 619-698-7942 8
BOSE Kelina R 619-258-2862 7
BUERGEY Delores K 619 562-1745 +9
CADOY Nicholas 619-449-5372 +9
CHARGUILAF Michael A 619-448-5627 +9
COOKE K 619-562-7331 4
DURNIN James 619-449-7406 8
FIERRO Victor M 619-528-8548 +9
HALL Michael 619-525-0554 +9
• JAK 619-596-0738 +9
LANCASTER Bryan E 619-562-3941 +9
LONG Christopher 619-562-3259 +9
MAYER Nanl L 619-562-0933 8
MCCUNE Traci 619-562-4172 +9
PFOHL Richard C 619-449-7070 8
RHODES Ernest 619-596-8149 +9
SANDERS Jonathan L 619-448-4857 +9
SHEDLOCK E 619-449-7977 +9
STRATTON Anita 619-448-7949 8
STRATTON Gary 619-448-7949 8
• SUNSET VIEW APTS 619-449-5153 1
VAZQUEZ Jose A 619-596-7637 +9
WENDALE Stuart 619-449-0240 +9
1518
1536 XXXX 00
1554 ATES Robert 619-258-5908 +9
HUFF Dolores 619-448-0445 8
MOSIER Kristina 619-596-8003 +9
VRZ Jean 619-596-2842 +9
X BRADLEY AV E
* 2 BUS 27 RES 17 NEW

SAMUEL 91942 LA MESA

WEALTH CODE 5 0

5880 XXXX 00
5882 • SD SEAGULL 619-466-3255 8
5884 •CANADAY Anna H 00 6
5885 •CROSBY Keith A 00 7
5886 XXXX 00
5888 •CAMPBELL Raymon B 619-463-2032
5895 •DONAHUE Edmund J 00 8
X BOB
5910 •WHITE Linda L 00 7
5915 •LAMB Barbara 00 +9
5920 •MCGEORGE Dana T 00 7
5925 •SKARNELLIS Ellen I 00 7
5930 •VANDERSTRAETEN Mark 00 7
5935 •HALVORSEN Leroy A 619-466-5713
X PAT
5940 •MCCARGAR Theresa M 00 7
5945 BURGAR John W Rev 619-469-6446
5955 •BOUTROS Mark E 00 +9
5960 GHANNI Dominic 619-460-5777
• GHANNI Joanne 619-460-3788
5980 • SOFTSELL 619-697-2339
5985 •EARLY Kathi A 00 7
5995 XXXX 00
X RAINEY
6005 DELLAROCCO Marshall 619-569-5216
6010 •CAMPBELL Fred A 619-466-8790
6015 PESELY E H Col Ret 619-469-5541
PESELY M C 619-469-9852
6020 AGLIANO Mary 619-462-2889 1
JOHNSON Allen 619-462-2889
JOHNSON Mike 619-462-7689
6025 XXXX 00
6030 • ESPINOZA Jorge L 619-697-4339
6035 XXXX 00
6045 •KIMBRELL Martha 00 7
6050 XXXX 00
6055 • DECARBO Nick 619-462-1660
6075 XXXX 00
6080 •WILLIAMS Roy D 00 7
6085 •JABLONSKI Robert R 00 7
6090 •WILSON J Rdick 619-461-3852 7
6095 XXXX 00
X ELPASO
6100 •ALLSING Richard C 00 8
6105 SHIELDS Fredrick V 619-460-9005 5
6110 •ALEXANDER J 619-464-3397
6115 XXXX 00
6120 •SCHWIMMER Edwin 00 7
* 2 BUS 42 RES 2 NEW

SAN ALBERTO WAY 92114 SAN DIEGO

WEALTH CODE 5 0

X SANTA ROSALIA DR
311 •PHILLIPS Clara A 619-263-3923
312 •MCIVOR Cindy D 00 7
320 GRAY Lucia 619-264-4223
•GRAY Maurice 619-264-4223
323 PEACE Helen M 619-262-3606
•PEACE Robt P Rev 619-262-3606
332 •LUNA Mark T 00 7
335 •GAY Millard F 619-263-1751
341 •RAMIREZ Maria 619-264-5778
342 •WATERS Glenn R 00 7
347 •SANCHEZ Francisco 619-266-0946 7
X TRINIDAD WAY
404 XXXX 00
411 •JOHNSON Marcus D 00 +9
412 XXXX 00
419 •CHAPMAN Travis 00 +9
420 •PETTIS Kenneth 00 7
427 XXXX 00
428 •STEWART Betty J 619-264-1961
433 •DELEON Tomas 619-262-2547 4
436 XXXX 00
438 •SMITH Melvin L 00 7
444 DORROUGH Wyliodean 619-262-8931
* 0 BUS 22 RES 2 NEW

SAN ALTOS PL 91945 LEMON GROVE

WEALTH CODE 5 0

1372 LEWIN Margaret 619-667-3538 +9
LEWIN Richard 619-667-3538 +9
X ALBERDI DR
1402 •BAKER Jeffery 00 7
1405 •RUIZ David 619-466-1677 8
1408 •PARKER Kathy E 00 7
1414 •FRIAS T 619-461-0751
1415 SCHOLL Fred W 619-697-9440
1420 •LAZARTE Lucy 00 +9
1421 •ROLLINS Edward L 619-465-0330 7
1425 TARATINO Anamarie 619-663-0862 8
TARATINO Arthur 619-698-0862 8
1433 •CARREND Raul 00 +9
• DOUGLAS PLUMBING SUPPLIES 619-482-8472 +9
1439 •CICCATI J 00 8
1440 •LISKO John L 00 7
1445 XXXX 00
1451 •EGGELING Richard A 00 +9
1453 XXXX 00
1464 GOLD Allen 619-698-9187
•GOLD J E 619-698-9187
1469 •AHRENS William J Jr 00 8
1470 •VILLASENOR A 00 7
1478 •ONTIVEROS Daniel K 00 +9
1481 CASTRO Sthrelo 619-463-7364 +9
1482 •ULLOA Carlos 619-466-1706 9
1487 •JOYCE Michael R 00 7
X PLACENTIA
1501 •TAKAHASHI Richard F 00 7
1504 SHIPPAM Pam 619-469-7663 7
1507 XXXX 00
1511 •SPIVEY Robert B 00 +9
1516 XXXX 00
1522 •WALTER Marilyn J 00 7
1528 XXXX 00
1534 •NILLAGA Benito F 00 7
1535 XXXX 00
1540 •BANCROFT Erbing 00 7
1541 •MONROE Clyde E 00 8
1546 GARCIA Rudy 619-589-0254
•GARCIA Yolanda 619-589-0254
1547 •DARNELL Ronald J 00 7
1552 CASTELLANO E 619-463-8014 0
•CASTELLANO Stephen 619-463-8706 6
1553 •HERNANDEZ Ruben 00 8
1558 •CRISTA Robert L 00 +9

SAN ALTOS PL 91945 CONT
1582 •DOVE Paul 00 7
1565 •KIRK Robt J 619-460-1156
1568 WALKER Grace 619-667-4927 +9
WHEELER Larry R 619-466-5256
1571 LEKENTA Tom M 619-644-0471 +9
•RYAN Daniel H 00 +9
1574 DION Matthew T 619-667-9098 +9
1577 •REYNOLDS Tommie Sr 619-698-7442
1580 •GRISSOM Maynee B 00 +9
• GRISSOMS FAMILY DAY 619-460-0886 5
1583 •MONACELLI D 619-469-8672
1586 •SMITH Yoko 619-469-4533
1589 XXXX 00
X RAMON
1603 •MANSFIELD Lee A 619-460-3478
1609 •SHORT Roland L 00 7
1612 •NICHOLAS Ronald H 619-469-3477
1615 •GONZALES Gloria 00 7
1618 •WELCH Kevin M 00 +9
1621 •KAISER John R 00 7
1624 •DODGETT Rosaline 619-462-1586 +9
1627 •MAZZANTI David H 00 +9
1630 XXXX 00
1633 •SALAS Curtis R 00 +9
1636 •HUFFSTUTLER Robert 00 7
1639 •SHELTON Esperesa C 00 7
1642 •DELIA James V 00 7
1645 •ESTRADA Connie R 00 8
1648 XXXX 00
1651 XXXX 00
1654 •MCBRIDE David C 00 +9
1657 •PACHECO Phil 619-463-5766
1660 •TINDER Layton E 619-463-5077
1666 XXXX 00
1672 NUTT Charles H 619-465-8152
1675 XXXX 00
1678 •BAILEY Robert J 00 7
1680 XXXX 00
1681 •HERNANDEZ Jose 00 7
1689 XXXX 00
X MASSACHUSETTS AV
X MAIN
* 2 BUS 81 RES 20 NEW

SAN ANDRES 91977 SPRING VALLEY

WEALTH CODE 5 0

X LAKEVIEW AV
9105 •WOODS Emma M 00 7
9109 •ONTIVEROS Martha G 00 7
9113 •VANSICKLE Harry V 00 7
9118 •CRUZ Cecilio T 00 7
9117 •WILLIAMS S N 619-469-1360
9121 •WHITENIGHT Lawrence 619-470-8845
9125 GRIEGO Sal 619 267-6664 3
WOODWARD Jas M 619 267-6664
X DATHE
9129 DUPREE John M 619-470-3838 +9
9137 XXXX 00
9153 HORNER Tom 619-267-0195
X KEMPTON
* 0 BUS 11 RES 1 NEW

SAN ANGELO AV 91942 LA MESA

WEALTH CODE 4 0

X CROCKETT
6160 FISKE Calvin 619-460-4200
FISKE Calvin 619-466-8422 8
FISKE Sandra 619-460-4200
•FISKE Sandra 619-466-8422 8
6170 XXXX 00
6180 •COOK Ed 619-469-5886
6190 XXXX 00
X DALLAS
* 0 BUS 7 RES 0 NEW

SAN ANSELMO 92109 SAN DIEGO

WEALTH CODE 9 0

PACIFIC BEACH AREA

X SAN JOAQUIN DR
2507 •SMITH Dale Beaumont 858 272-0570 4
2514 HEFTMANN Rex 858-270-4588
2515 XXXX 00
2525 •GIBBS Jason B 00 7
2530 •WOXEY J F 858 274-5835
2535 •KRAMER J R 858-274-5648
2538 HELLER J M 858-273-7266 5
2543 •MALLARD Jas S 858-273-5855
2548 •WHITE R H 858-274-6478
2554 BARBOUR Jerry M 858-483 7965 +9
•BUCHANAN P A 00 7
2559 •SANT John 858-272-1631 8
SANT Linda 858-272-1631
2562 •BRENTANO Tom 858-272-4954
X PACIFICA DR
* 0 BUS 14 RES 1 NEW

SAN ANTONIO AV 92106 SAN DIEGO

WEALTH CODE 8 0

300 XXXX 00
302 ROTH Lon 619-225-8121 8
•ROTH Matthew 619-225-8121 8
305 •MONAGHAN Brian 00 7
310 •AYLETT Arthur J 00 7
311 XXXX 00
312 XXXX 00
314 •CARRE Peter 00 +9
315 FEDERHART Jas W 619-226-2123
316 REED Josephine Rev 619-222-9211
318 XXXX 00
319 DUNCAN Jas O 619-224-0662
320 POND Fletcher 619-225-1544 7
325 BROWN Shelburne Mrs 619-222-8751
326 HARROP John W 619-222-2158
SPRINGSTEAD Wallace 619-223-1337
333 NORTH Bea 619-222-4189 8
•NORTH Lowell 619-222-4189 8
345 XXXX 00
X KELLOGG

SAN ANTONIO AV 92106 CONT
352 XXXX 00
353 BELLACK R J 619-223-0655 +9
CANNON Curtis 619-224-9945
CANNON Leslie C 619-224-9945
VARDILLO Richd W Dr 619-222-9963 5
WINSTON B B 619-223-5980
362 BURWELL James 619-224-3077 +9
CATES Christian A 619-224-2721 +9
365 •BREITENBACH E A 00 +9
367 NEWSOM Don 619-224-5551 8
368 XXXX 00
369 STRAND Torsten 619-223-3363
371 SNOPKOWSKI Mark E 619 223-4545 8
375 XXXX 00
376 CORDS Lucita 619-222 9358
CORDS Wrham F 619-222-9358
MALLICOAT Joanne 619-222-5119
MALLICOAT Sam B 619-222-5119
PERIN Thos J Dr 619 223-7633 2
THOMSON Jean 619-222-3957 6
379 •LOPRESTI Frank 00 7
X LAWRENCE
404 PARK LA PLAYA APTS
CARL Charles T 619-222-2141 +9
HOWARD John W Capt 619-226-6810
KELLEY Barbara 619-222-2203 2
KELLY Jack 619-222 7859
KELLY Jack 619-222-0075 +9
KIERAN June 619-224-9617
ROSHEK J J 619-222-6073
SHULTZ R Jos 619-222-4322 +9
404 .....
405 XXXX 00
410 XXXX 00
418 XXXX 00
430 APARTMENTS
COATES J H 619-223-8411 +9
COATES J H 619-222-8442 +9
FITZGERALD Brian 619-758 9538 +9
FOREMAN Roberta 619-224-5850
ROBINSON William 619-222-4325 7
430
431 XXXX 00
440 HADEL Wm N 619-223-7832
STEINBECK S E 619-222-2546
441 XXXX 00
X MCCALL
X OWEN
545 •OCONNOR M F 00 7
555 XXXX 00
567 •BURNS C T 619-222-4666
581 MALONE Edward C 619-222-0889 8
588 •JOHNSON Allen 619-224-3822
594 XXXX 00
X PERRY
604 •GRANT Roger L 619 224-4242 7
618 •PLUES Richard E 00 8
SCALLON Bert 619 523-1223 +9
X NOREN PL
630 RIVERA 5 619-223-2873
636 •MCHENRY M 00 +9
645 XXXX 00
X QUALTROUGH
650 SILLIMAN L Anna 619-222-7837
666 XXXX 00
* 0 BUS 74 RES 13 NEW

SAN ANTONIO PL 92106 SAN DIEGO

WEALTH CODE 9 0

809 XXXX 00
810 XXXX 00
821 ARMOUR Ogden B 619 222-1700
845 •HATTOX John S 00 7
850 NORTH Kay G 619-222-8921
851 MONROE Lee Dr 619-226-8881
MONROE Lee Dr 619-222-9199
855 •VARASANO Frank 619-222-4086 7
856 •TARAY David 619-225-1105 8
862 •STGEORGE William R Vadm 619-222-9560
865 NEEB Bess 619-224-4414
870 FELIMOO August 619-223-7554
871 REINSMA Beth 619-222-8345 +9
873 •JOHNSON Norman 619-523-9308 7
874 •OSTRANDER David R 00 7
876 •SHARP U S 00 7
877 •RHODES Cynthia 00 8
880 LIPSEY Geoffrey W 619-523-6626 +9
LIPSEY Lee Rhyne 619-523-6626 +9
887 XXXX 00
X SCOTT
X BESSEMER
* 0 BUS 20 RES 3 NEW

SAN AQUARIO DR 92109 SAN DIEGO

WEALTH CODE 9 0

PACIFIC BEACH AREA

X LORING
5064 HACKER Danna W 858-274-1108 +9
TAYLOR Matthew J 858-483-6406 +9
WELCH Garrett 858-483-6406 +9
5007 WRIGHT Laura 858-483-0487
WRIGHT Tim 858-483-0487
5010 •LEWIS Moe Murat 858-273-7082
5026 •GARSKE Bud 858-273-2510 0
5031 XXXX 00
5035 •ROODHOUSE Ben D 858-274-6054
5036 •HEADLAND Donald L 00 7
5044 SORENSON Debra 858-274-6525
SORENSON Jim 858-274-6525
5051 •ALLEN Mark L 00 +9
5052 ENHOLM Jacob C 858-273-5188 8
SCHREAMER Phillip 656-270-4201 6
5059 •FINN Huck 00 7
5060 STEELE Allan W 858-272-0604
STEELE Allen W 858-272-0222 6
•STEELE K 858-272-0604
5068 •ENGLER L K 00 7
5075 SALZER Beeo 858-581-0076
5076 •NIZYBORSKI Edmund 858-274-4478
5084 •SAVAGE Beverly K 858-273-8709
5092 •JOSE Myron 858-272-8590
X ROMNEY RD
5111 •SAMUELS Bernard L 00 7
5121 •HUNSAKER Darrell H 00 7
5129 XXXX 00
5129 •HILL A Mert 858-272-8162
5145 •BOUTIN Robert D 00 +9
5148 •GOODE John W 00 +9
5153 •COHEN Sami 858-273-8167 0
5171 •JARONE Theodore Jr 858-273-7513

SAN AQUARIO DR 92109 CONT
5172 •MULVANEY Jas F 858-272-3331
5181 •DORT James M 858-274-5189
5182 MOCERI Dominic J 858-273-5024 +9
5187 XXXX 00
5190 •BOOTEN Dewd R 00 7
* 0 BUS 37 RES 7 NEW

SAN BERNARDINO AV 91977 SPRING VALLEY

WEALTH CODE 7 0

X APPLE
1012 •CASIANO J 00 7
1013 •HARRIS John 619-461-5481
1018 •COLOUGHLIN James E 00 7
1017 XXXX 00
1020 •KRUMM T G 00 7
1023 •RUSSELL Soreys 00 +9
1027 XXXX 00
1030 •HIGH Jas D 619-464-2834
X CHESTNUT
1104 •ERLER Richard A 00 7
1107 JAMES Louie 619-466-2052
•JAMES Miyoko 619-466-2052
1108 XXXX 00
1112 •WIRTZ John D 00 7
1120 •ACOSTA Enrique R 00 7
1129 XXXX 00
1130 •KASSAB Nabeel 619-697-2916 1
1205 HUGHES Jeff 619-463-3272 +9
HUGHES Jena 619-463-3272 +9
1208 XXXX 00
1211 •ROWAN Ann 00 7
1212 BERLAN Francisco 619-698-4858 8
1217 XXXX 00
1221 •DONDERO Edward A 00 7
1224 •ARNEY David 00 7
1225 •WALTERS S L 619-466-2571 0
1229 •FLORENCE John 00 +9
1303 BALES Ronald F 619-466-8465
•BALES Virgina M 619-466-8465
1304 •MARINO Karol 00 8
1312 •WONG Hoy F 619-466-9600 8
1313 •WALLACE Patrick J 00 7
1316 FASCHING Daniel 619-697-8382 +9
1319 •BAAR Rybert L 00 +9
1323 MARTINEZ Tony 619-461-4852 +9
1327 XXXX 00
X DATE
1404 XXXX 00
1407 •PAYNOR Frank Anthony 619-466-8570 +9
1409 •MCCAULEY Michael J 00 7
1414 •JORGE Louis J 00 +9
1415 •SANCHEZ Andrew C 00 +9
1418 •ZUCK Jerry 00 7
1427 •STEENSEN Donna 619-482-9432
1431 •HIXON Russell 00 +9
1503 •PARDY Robt E 619-460-3412
1510 XXXX 00
1513 •GRAISON Steve 00 7
1518 LLOYD Katherine 619-697-1052 +9
1521 •BRADLEY Thomas W 00 7
1611 •FRANCES N S 00 7
1615 •SMITH Travis 619-697-9442 6
1618 •MEEKER C R 00 7
1620 •DELOACH Ray 00 7
1626 •BALL Shan K 00 8
1627 XXXX 00
1630 XXXX 00
1631 TAFT William J 619-482-8368 8
1635 •HATHCOCK Robt L 619-698-8226
1636 •COOPER William 619-596-8583 5
1640 •YUMAN Morgan A 00 +9
1641 •ABRIEL Jeanne L 00 +9
1647 XXXX 00
1650 XXXX 00
X EUCALYPTUS
1708 •TETA Amato N 619-463-9036
1711 •CALHOUN Jeffrey L 00 7
* 0 BUS 64 RES 14 NEW

SAN BERNARDO TER 92114 SAN DIEGO

WEALTH CODE 3 0

5202 •STOKELY J E 619-263-7829
5203 •MADLOCK Robert 619-263-2953
5206 •BELL Wite M 00 7
5212 XXXX 00
5218 •WRIGHT Eddie 619-282-8230
5222 •MCLAUGHLIN David W 00 +9
5223 THOMPSON Jos L 619-282-8285
•THOMPSON Mary L 619-282-8285
5228 XXXX 00
5232 •TURNER Joe W 00 7
5240 •SANCHEZ Arnulfo 00 7
5243 •RODRIGUEZ Nora A 00 7
5248 XXXX 00
5251 •LONG Naomi L 00 8
5254 •GARCIA Cecilia 619-264-0248 6
GARCIA Cecilia D 619-264-9368 +9
5265 •JOHNSON R 619-264-1022
5273 XXXX 00
5280 •JOHNSON Rudell 619-264-3896
5282 •EDWARDS J 00 7
X LAPAZ DR
5305 XXXX 00
5314 •AYON L 619-263-2028
X SAN JACINTO DR S
* 0 BUS 22 RES 3 NEW

+SAN BRUNO PL (99) 91914 CHULA VISTA

521 •QUINTANA Carlos 619-656-1324 +9
524 •JAMES Darryl C 619-216-2868 +9
* 0 BUS 2 RES 2 NEW

SAN CARLOS 91977 SPRING VALLEY

WEALTH CODE 4 8

X AKARD
X KEMPTON
X FELICITA AV
9238 DONAHUE Frank 619-670-9926 +9
X CONCEPCION AV
6 MORRISON Howard 619-479-4845 8
9324 ALVAREZ Jamison 619-475-3211 +9
X SACRAMENTO AV

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140*Knightstep Glenda
5742 Apartments
13*Combs Jill 288-3463
14*Lieu Tuan 286-4277
15*Banks Leona 286-4850
16*Mc Kinley Robt
5743 Apartments
141*Buckman Donna 287-7144
142*Hershburger Linda 268-0245
143 Banks Leona M
144*Aoe Y
5744 Apartments
9 Vacant
10*Gold Jimmie 287-7330
11 Vacant
12*Mascarenas Anthony 287-6631
5745 Apartments
145*Nguyen Toan 286-5388
146*Peel Kathy 287-1028
147*Calma Jose 287-4277
148*Rease M E 287-5677
5746 Apartments
5 Lutz Mack
6*Garber Bernadette
7*Carrillo Carlos 286-5956
8*Sheng Haw Low
5747 Apartments
149 Deaton C Steve 582-4326
150 Cook Edith J Mrs 286-2807
151*Li Fummg 287-7009
152*Rothlis Jack
1 Casas Hilda 286-3190
2 No Return
3*Cloud Cleopatra
4 No Return
5749 Apartments
153 Wright G W 268-7184
154 Vacant
155 Archer Robt V 286-7515
156 Gardner Steph
58TH ST INTERSECTS

369
BATISTA ST —FROM 3800 ARVERNE ST EAST

ZIP CODE 92111
6903 Allen *Lyndall D* @ 278-4902
6919 Mc Kelvey Gary P 560-4035
6924 Gibbons Donald R @ 279-7778
6935 Jenkins Thos A @ 292-9259
6951 Wyrsenbach Ben L @ 275-0280
6958 Rhodes Wm L @ 277-2176
6967 Mendez Jose @
6976 No Return
6979*Staat Michl C 277-3795
6988*Jorgensen Stanley R @ 278-7179
6991 Baumgarten Robt H @
6998 Balistreri Salvatore @ 279-3840
BROADLAWN ST INTERSECTS
7003 Distefan Albert M @ 279-2772
7015 *Vieira Celeste Mrs* @ 277-4582
7027 Berggren Janice Mrs @ 279-7899
7039 Hughes Lois E Mrs @ 279-9686
7051 No Return
7063 Wright Donald E @ 277-1488
7075 No Return
BIDDLE ST INTERSECTS
7123 Armstrong E @ 560-7123
7124 Walden James A @ 277-7654
7131*Doyle Kenneth J @ 279-6509
7132 Empey Boyd J @ 277-4207
7139 Larson Robt A @ 277-2937
7140 Garner Herbert H @ 277-0847
7147 Allen Rebecca J Mrs @ 277-5606
7148 Arnette David E @ 279-5312
7155 Schmidt Martha J Mrs @ 277-4164
7156 Vacant
7163 Dunn Glenn A @ 279-8491
7164*Zalinski Mike
7171 Yost Frank L @ 278-6195
7172 Hubbard Kenneth R @ 277-9046
7179 Mc Clure Harold L @ 277-1422
7180 Vacant
7187 Hammond Harry F @ 277-5079
7188 Gross David V @ 279-1523
HATTON ST INTERSECTS

ARMSTRONG ST INTERSECTS
7402 Glithero Phyllis O Mrs @ 277-1421
7410 Vacant
7416 Hoover Joan V Mrs
TIARA ST ENDS
7422 Lang Clara L Mrs @ 560-6654
7423*Roberts Gloria 292-1659
7429 Greer Jack Jr @ 278-0208
7430 Festa Alice M Mrs @ 279-5318
7436 Dunigan A C @ 279-8434
7437 Wood Robt H @ 279-2684
7442 Herman Carl H @ 277-5673
7443 Diaz Anthony @ 277-6310
7448 Christopher Henry @ 277-0460
7449 *No Return*
7454 Adams Myrl L @
7455 Santiago Danl @
7460*Taylor James R @ 571-0311
7461 Asaro Mateo @
7468 Smith Gerald V @ 277-7300
7469 King Alan R @ 279-9353
7474 Ugaita Iza @ 292-9473
7475 Magnus Pamela E
ARGYLE ST INTERSECTS
ASHFORD ST INTERSECTS
ANTIEM ST INTERSECTS

647
BAUSELL CT —FROM SNOOK ST WEST

ZIP CODE 92124
10155 Robinson Ronald
10157*Garcia Manuel
10160 Grant James A
10165 Montgomery Jeffrey D
10166*Cunningham Richd O
10167 Hedlund James D 278-7046
10170 Sisalla Wayne T 268-3196
10175*Mora Joe 278-9143
10176 Shatokin James T 560-5086
10177*Bethel Thos L 278-7871
10180*Mahute Howard 278-5525
10185*Schafer Steph
10186*Funk Robt E 278-6321
10187*Choy Wing M
10190*Allen Neal 279-4263
10195 Vacant
10196*Mc Kinney Joe R
10197*Gesford John

647
BAUSELL PL —FROM SNOOK ST WEST

ZIP CODE 92124
10170 Finkle Jack L 565-9622
10175*Perry Lester G 560-5141
10176*Nelson Durvin
10177*Gallotto Almamu
10180 Calloway Robt E
*10185*Medina Kenneth*
10186*Pollard Lewis D 569-7631
10187*Andrews Thos 565-4098
10190 No Return
10195*Gunn Jack H
10196 Haywood Wm L 571-5143
10197*Contreras Andrew 569-7474

647
BAXTER CT —FROM 5190 BAXTER ST WEST IN A SEMI-CIRCLE

ZIP CODE 92117
4633*Scaramella Rick L 272-6146
4636 Guthrie Robert V 270-1045
4648 Dominguez Carmen @
4655 Hayhurst Robt E @ 276-3231
4666 Thies Fredk A @ 273-8507
4677 Ishihara Mitsuo 273-7371
4684 Weber Herbert E @ 274-4907

647
BAXTER ST —FROM 4800 CONRAD DR NORTH

ZIP CODE 92117
5010 De Bolt Della F Mrs @ 274-2880
5011 Wilhoit Emmett L
5018 Jue Beatrice Mrs @ 273-4535
5025 Gonzalez Hector @ 276-1894
5026 Hines Nancy C Mrs @
5034 Romero Wilfred @
5035 Pavelec Theodore E @ 278-0691
5042 Kasselman Lawrence D 483-2533
5043 Johnston John E @ 270-2067
5050 Parker Ernest R @ 276-2622
5056 Bagwell Mary C @ 278-0346
APPLETON ST INTERSECTS
5061 Gaddy Lloyd A @
5062 Mc Corie Jennie Mrs @ 272-4248
5068 Rice Alton L @
5069*Tarkas Ingrid @ 270-1416
5074 Buckman Alice D Mrs @
5075 Bakos Andre J @ 272-4459
ABERDEEN ST INTERSECTS
BRILLO ST INTERSECTS
5080 Hawkes Gordon W @
5081*Grygier Mark 483-3273
5086 Wagner Wayne M @ 273-3550
5087 No Return
5094 Sunset Carpet Service c/o 272-5674
Pasquarella Fred A 272-5674
5095 Barnes Douglas G 272-2258
LEHRER DR INTERSECTS
5102 Hepburn Richd D 270-3534
5111 Simonda Virgil D @ 273-1613
5112 Hewey Paul L @
5120 Reece John @ 275-3084
5121 Stagner Coy S @ 273-6123
FIRESTONE ST INTERSECTS
5131 Welch Mick R @ 270-8875
5141 Phillips David L @
5144 Olson Geo W @ 274-8577
5150*Whelan Robt E @ 270-3618
63 5161*Sloan Philip A 276-9715
BAXTER CT INTERSECTS
5156 Peterson John J @ 276-8245
5159 La Rocca J M 275-2681
5165 Sinnott Jack L @ 274-7819
5170 Schuler Home & Apartment Repair 270-3080
Schuler Wm J @ 274-6541
5175 No Return
5188 Prazmark James A @ 276-0740
5189 Miller Alma E Mrs @ 276-2685
5198 Balistreri Andrew @ 274-8970

217
BAY CANYON CT —FROM A DEAD END SOUTH OF 4510 GESNER ST NORTH

ZIP CODE 92117
2702 Glover Richd N @ 275-0870
2706*Linn Ron
2710 Geren Robt P @ 276-2074
2714*Vogel Aman 276-2074
2717*La Pierre Dexter 275-1509
2718 Vacant
2722 Teotico Genaro R @ 276-8780
2723 Atkinson David C 276-6210
2729*Slaven Mike 274-6325
2735 Vacant
2741 Larsen D B 276-9049
2747 Carlino Josephine 276-6702
2795 Mc Cracken Howard B 275-3123
2828 Cherif Jamel E 276-1254
2838 Hendrickson Steph
2848 Minor John C 276-7211

905
BAY FRONT ST —FROM 1400 CROSBY ST SOUTHEAST

ZIP CODE 92113
1860 Vacant
1995 Bumble Bee Seafoods canners 235-0160
State Health Dept (Cannery Inspection) 237-7199

17
BAY VIEW CT —FROM 1859 LYNDON RD SOUTH

ZIP CODE 92103
4031 Smith Geo H @ 295-5645
4047 Van Norman Allen @ 296-6451

383
BAYARD ST —FROM 1 SOUTH OF 900 PACIFIC BEACH DR NORTH

ZIP CODE 92109
4005 A King Of All Trades Co electn 272-6960
4025 Criscola Anthony P @ 272-0610
PACIFIC BEACH DR INTERSECTS
4104 Bishop Jane Mrs @ 275-3118
4110 Beckett Herbert L @ 488-8120
4120 Freeman Richd R @ 483-7956
4121*Maintanis Chas R @ 272-5776
4127 Tummen B F @ 272-1436
4128 Vacant
4138 Tellous Harold @ 483-7027
OLIVER AV INTERSECTS
4204 Mesner Steve M @ 273-5286
4205 Gelardi Chas S @ 272-2508
4211 Laird Roy M @ 272-2437
4212 Alderson John A @ 483-0413
4217 Earle R Kenwood @ 270-5344
4218*Schaperkotter M C @ 270-8437
4225*Watkins Robt J 274-9036
4226 Dunbar Annie S Mrs @
4236 Whitman Jack H @ 488-5635
4239 Sugita Sam I gdnr @ 272-2365
4242 Mecklenborg Theo F 274-1798
REED ST INTERSECTS
4277a Graham John H
4277b Vacant
4285 Donovan Paul J
4287*Britting Paul
4289 Anderson Lee W Mrs 278-2461
THOMAS AV INTERSECTS
4310 Kelly Edythe M 272-0863
4316 Vacant
4340*Esberg Robt S @ 273-8156
4348 K B's Cutting Co beauty salon 272-7736

83
GRAND AV INTERSECTS
4406 Dunn's Gun Shop guns retail 270-4691
4408 Drake Leonard Realty 483-6911
4410 Adventure Tours Ltd 272-9660
4412 Vacant
4414 Vacant
4418 Vacant
4425 Hughes Karen
4435 Schmitz Mildred B 272-1792
4441 Mann Frances E Mrs 270-9222
HORNBLEND ST INTERSECTS
GARNET ST INTERSECTS
FELSPAR ST INTERSECTS
4617*Featherstone Jas 483-6979
4627 Kilgore Mary M Mrs 483-8016
4629*Pollock Robt
4636*Mc Farland Scott @ 483-7749
4631 Niehoff Cath A @ 483-7836
4633 Barger Jeanne Mrs 483-7338
4635 Newton Wm 483-3325
4637*Cortash Jas @ 483-6884
4639 Crawford Roy @ 483-8135
EMERALD ST INTERSECTS
4650 Lee Ann M 483-1907
4652 Trifanolif Nikola 274-0513
4654*Maida Lorn 272-7049
4655 Miller Charles J 483-6316
4656*Ricci Scott D 272-3094
4657 No Return
4659 No Return
4661*Richards Lloyd 483-6309
4663 Gross Betty Mrs 488-2336
4679*Hollis Grant 274-8208
4679b Tuzinsky Jackie 272-0586
4682*Thabet Bruce 483-3056
4684 Vacant
4686 Grieg Joe Jr 488-2933
4688 Vacant

87
DIAMOND ST INTERSECTS
4725 Gianiotes Harriett
4726 Adamov Paul 270-9814
4727 Fimbres Ernest R
4728*Garland Mona E @ 483-6653
4737 Britz Wayne W 483-6548
4739*Taylor Ron D 483-7024
4741 Razo Ramiro 270-5040
MISSOURI ST INTERSECTS
4758 Jones Dani 488-0301
4765 Philippe Marc @ 483-7756
4766*Gilbert Greg 483-4094
4778*La Rachelle Florence D Mrs 483-7157
4777 No Return
CHALCEDONY ST INTERSECTS
4815 Spramelli K 272-8092
4824*Riggio Marcello 483-6227
4828 Pingel Carl P @ 488-4020
4827 Aldrich Mildred Mrs @ 488-5648
4878 Corey Joseph J 483-6624
4890*Lakey K Scott 483-7168
LAW ST INTERSECTS
BERYL ST INTERSECTS
4916*Newfield Jerry @ 483-8740
4917 Hursur Peggy Mrs @ 483-6423
4928*Verkest K J 483-6237
4935*Lasada Pat 272-4965
4935½ Vacant
4937*Mioshi Conrad
WILBUR ST INTERSECTS
4964 Mc Taggart Kevin W *488-7756*

387
LORING ST INTERSECTS
5018*Petty Robt L
5027*Patterson Donald B @ 483-4874
5028 Siudzinski Wm J @
5029 Johnson Linda J 270-8673
OPAL ST INTERSECTS
5050*Murray Gene G 272-8724
5075*Pearl Susan
5078 No Return
5079*Hewitt V
5081*Lammons Anna M 557-4473
TOURMALINE ST INTERSECTS
5118 La Fonza Sidney A @ 483-8397
5128 Radlick Geo D 274-7873
5130 No Return
5134 No Return
5138*Bernarski Brian
SAPPHIRE ST INTERSECTS
5150*Mintz Lorraine
5150a Vacant
5160a*Parker Wm A
5160b*Shaeffer D
5161 Coulson Ernest G 488-3815
5162a Brown Wesley G
5162b Koch Reynold R 488-1602
5170 Bayard Apartments
1*Bourdon R 272-5825
2 Vacant
3 Mc Carthy Mary 488-3694
4 Robbins Sylvia Mrs 488-5672
5 Montgomery Robt R 270-8397
6 Campbell Greg J

186
BAYLOR DR —FROM 5309 COLLIER AV NORTH

ZIP CODE 92115
4705*Hall N 287-6077
4711 Conrad Juanita M Mrs @
4717 Damico J 286-4458
4723 No Return
4729 Mc Mullen Nadine L Mrs @ 582-7142
4730 Blum Danl F @ 582-2983
4738 Morgan David E @ 583-1188
4737 Kasik Miles @
4743 No Return
4744 Cruz Manuel I @ 582-5009
4751 Hartley Harold R @ 583-3867
4759 Kreft F Henry @ 582-8716
4803 Bozak Wm @ 286-7249
4804 Jones Maria 286-9682
4809 Hunter Betty A Mrs @ 582-7808
4817 Potter Austin W @ 582-6736
4818 Wren Quitman W @ 583-4237
4823 Kerley Joseph B @ 286-3694
ALCORN PL BEGINS
4829 Robinson Lillian B Mrs @ 582-7335
4830 Vacant
4840 Teig Nels @ 582-1032
4850 Pierson Eug W @ 582-6177
AUSTIN DR INTERSECTS

575
BAYONNE DR —FROM 3400 INGRAHAM ST NORTH

ZIP CODE 92109
3404 Coop Wm E @ 274-3173
3410*Turnblad John 272-6447
*3411*Dawson Wm J @*
3416 Cooper Richd G @ 275-2462
3422 Turner Henry G @ 273-3687
3423 Tsao Louis R @ 276-9689
3428 Molyneaux Geo @ 273-1130
3433*Burkhart E R
3434 Vacant
3437*Peterson Marlen @ 273-5215
3440 Peters James G @ 270-5480
3445*Austin Thos 270-6117
3446 Krueger Geo E Jr @ 274-1428
3451 Cummings Benedict P @ 274-4503
3462 Buckel Arth @ 274-6783
3481*Shipstead Nancy @
3482 King Ruben J @ 274-1342
LA CIMA DR INTERSECTS
3503 Goehl Robt R @ 483-0228
3504 Carroll Wm B bldg contr @ 272-9285
3509 Vezie Timothy T 272-6716
3511 Prescott A E Mrs @
3515 Brauer Martin J 272-3579
3516 Green Benj A @ 274-1817
3521 Gudaitas Grace C Mrs @
3524*Davidson Clayton 483-5537
3529 Van Horn Melvin L @ 278-8057
3530 Shanahan Dennis J @ 273-6677
3535*Mayo Kelly 483-7589
3536 Atha Augustus A @ 274-2308
3541 Clark Wallace L @ 274-1889
3544 Whitaker Chris 272-7925
3547 Schoepfer Mary G Mrs @ 278-2630
3548 Hamilton Donald L 270-9816
3553 Hartin Wm J @ 272-4647
3554 Devine Thos A @ 273-6716
3559 Weingartner Carl J @ 274-2205
3560 No Return
3565 Nickell Orville B @
3566 Kingery Frank A @ 272-3507
LA MANCHA DR INTERSECTS
3603 Pierce Lester E @ 274-1578
3604 No Return

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7434 JACKSON DR. TEL. (619) 697-8844 SAN DIEGO (92119)

BELT ST E 1984

BELLE GLADE AV—Contd
6804 Whitacre Paige
6807 Locke Bonnie Mrs @ 697-0729
6820 Rapp Carl H Jr @ 463-2736
6823 Eckles Joyce M Mrs @ 463-8380
6836 Timms L Graham @ 460-5135
6839 Butler Geo L @ 465-9967
TUCKAWAY ST BEGINS
6852 Burke John P @ 460-9969
BONNIE VIEW DR ENDS
GLENFLORA AV BEGINS
6869 Grippo Ronald L @ 463-3786
HYDE PARK DR INTERSECTS

241
BELLE GLADE LA —FROM 6500 BELLE GLADE AV EAST

6959 Stewart Kenneth D @ 461-1219
6960 Papoulias Thos @ 464-6970
6971 Williams Robt @
6972 Rodieck Gareld D @ 460-8818
6983 Phillips Velma I Mrs 460-5437
6986 Dehmitros A C @ 464-1060
6995 Dishong Raymond C @ 460-2810
6998 Eggleton James C @ 460-4885
7010 Stites James M @ 463-6922
7011 Shoaf Aubrey E Jr @ 465-6505
7027 Hund *Ronald G* @ 460-4461
7032 Becker Wm C @ 463-7062
7041 Armstrong Robt E @ 469-9100
7050*Mc Intosh Michl D @ 697-9320
7057*Broads Kenneth W 463-4968
7074 Pawlisch James R @ 464-8032
7075 Hileman John W @
7087 Barstad Ruth H Mrs @ 465-6586
7088 Alesi Jerome T @

207
BELLE HAVEN DR —FROM 6650 WANDERMERE DR SOUTHEAST

ZIP CODE 92120
6607 Cirrello Mary @
6608 Butler Michl 689-7301
6619 Danitz Robt A @
6620 Tyler Wm L
6631 Stoll Richd A @ 465-1090
6632*Tarpey Mark Jr 461-4194
6641 Erickson Gene E @ 464-3837
6644 Baxter Clifton J @ 466-1991
6651 Hunt Cecil J @ 460-2605
6658 Mizer Walter G @
6659 Igiow Harold @ 286-8765
6665 Murphy John J @ 461-4196
6668*Friend Peter F @ 698-8971
MIRA VISTA LANE INTERSECTS
6675 Bassett David S @ 461-5769
6681 Doyle James H Jr @ 461-1926
6689 Spilkin Edw S @ 466-6271

126
BELLE ISLE DR —FROM ISLA VISTA DR NORTH 1 EAST OF EUCLID AV

ZIP CODE 92105
3105 Jukich Louis
3106 Young Jerry
3121 Russell Helen @
3122 Day Lucille A Mrs @ 281-0503
3137 Hangen Milton @
3138 Todhunter Kenneth I @ 282-1223
3153 Goldfarb Wm @ 282-9208
3154 Schneider Paul @ 282-3459
3169 Berghorn Fredk W @
3170 Griggs J D
3203 *Alvarez Jose Jr @ 281-6785*
3204 Savary Clarence B @ 284-8178
3211 Savary Todd D @ 282-8066
3212*Shellenbarger Thos 280-3323
3221 Gruenwald Margrete
3222 Bishop James V @ 284-7507
3227 Mc Tague P L @ 282-6063
3230 Tobine Robt W @ 282-6168
3235 Cauthen Junior B @ 283-3306
3236 Dallman Roger Rev @ 283-1714
3243 *Keeyes Raymond H @ 282-5520*
3244 Schoenwald John F @ 284-4752
3250*Stein Raymond @ 282-4195
3251*Ray Nat L 284-8418
3261 Brawner R W @ 281-0180
3262 Humision Annie L @
THORN ST INTERSECTS
3304 Flanagan *Kate Mrs @*
3314 Malzahn Alvin C @ 284-4870
3315 Deanda Trinidad @
3320 Attebery Ruth S @ 284-6165
3323 Dunning Jane G Mrs @ 282-2721
3328 Casebolt Elene @ 282-5164
3329*Kinsilius Linda @ 283-3208
3333 Schuler Aug @ *284-6921*
3336 Anderson J @ 283-3344
3344 Coffrein Louise H @ 283-4725
3345*Bogalin Larry T 280-0417
3403 Glass John D @
3404 Saleron Frances Mrs @ 281-9282
3411*Coble Jack 584-2095
3412*Hillemeyer Bud L @ 282-1828
3422 Feeley Edwin L @ 281-9000
3423 Watson Helen @ 282-2043
3426 Laffoon Karen L @
3434 Cohen Wm @ 284-0970
3435*Bronsterin Ely 280-6958
3439 Jones Robt @
3442 Proffitt Glenn E @ 281-6478
3443*Lang Sharon
3458 Taylor Eubert @ 283-8084
3462 Scruggs Ronald F @ 294-2541

89
BELLEVUE AV (LA JOLLA)—FROM 900 COLIMA AV NORTH

ZIP CODE 92037

BELLEVUE PL BEGINS
*5407*Goyette Donald R @*
5420 Gerko Pat A @ 459-7891
5421 Nebel-Thau Anne @ 454-4085
5426 Ruggles John E @ 459-2752
5429*Dalbom Bill @ 459-7891
5430 Zunis Nick D @ 459-2823
5431 Bungay Edw J @ 454-1467
5436 Pawka Steve @ 459-8490
5440 No Return
5441 Rafferty Malachi J 454-7968
5444 Chatham Wm K @ 459-1966
5448 Hoffman Richd S @ 454-2948
5449 No Return
5454 Telford Douglas J @ 454-2406
5457 Sacks Jeffrey L 458-7791
5470 Maleki Hamid @ 459-3966
MIDWAY ST INTERSECTS
5513 *Costello Pedie Mrs 459-6428*
5514 Paschen Clarence J @ 459-2172
5517 Cook Rosemond F Mrs @ 454-5962
5518 Riggles Jos R @ 454-2233
5521 Appleton Sonja C Mrs @ 454-4459
5522 Bromley M Todd @
5525 Maybury F A @ 459-1951
5526*Bean Martin P 454-2824
5529 Mac Donald Elizbeth H @ 454-0910
5532 Kuehner John E @ 454-4672
5537 *Sefton Bart 454-8608*
5540 Kessling Edwin H @ 454-6353
5545 Maccree Larry @ 454-7668
5546 Roberts Wendell C @ 454-2559
5552*Burriston Dean R 459-9488
5553 Liddiard Eunice E Mrs @ 454-7080
5556 No Return
5559 Cueto George @ 459-4587
5571 Kelly B A @ 459-5561
FORWARD ST INTERSECTS
5610 Coombs Geo F @ 459-2091
5611*Zimmerman John C @ 454-8324
5617*Evans Richd E @ 454-2132
5618 Burton J Woodrow @
5623 Mc Mahon Carol A Mrs @ 459-7019
5624 Gross Maurice C @ 459-5683
5630 Bauhan Mary E Mrs @ 459-9024
5633 Bennett Mary E Mrs @
5636 Manternach Judy 459-1163
5637 Harvey Mary E @ 454-1943
5641 Cooke Frank @ 454-4693
5642 Tuomi Wm @ 454-2091
5645*Barbier John P @
5650*Schmitz Dennis @
5651 Haven Dorothy C Mrs @
5654 Esparza Arth @ 459-5733
5655 Leitgeb M A Mrs @
5659*Arthur N 459-2214
5660 No Return
5664 Mc Carthy Leo @ 454-5650
5669 Vogler Dorothy O Mrs @
5672 Guerrini Joanne 459-0908
5675 Buck Frederic W veiw tchr @ 454-7335
5678 Hartman Greg R 466-1319
5681*Diamond Guy @ 459-1920
BIRD ROCK AV INTERSECTS
5705 Castillo Fred 454-4808
5711 Wallace Bruce R @
5712 Harmeling John L @
5720*Buckley Mike 459-1905
5721 Carlberg James M @ 454-6453
5726 Smith K N
5727 Frankowski Jozef @
5731 No Return
5732*Elliott Greg S @ 456-2535
5737 Mc Kinley Thos @ 459-7624
5740*Jurschak J 459-7314
5744 Sham Lu J @ 459-1336
*5747*Moore H Matt @ 459-2204*
5752 Cranston Theo J @ 459-2260
5755 Palevsky Lucia R Mrs @ 459-5407
5761 Vacant
5762 Goodnough Chase G @ 454-2850
5769 Tyler Blanche M Mrs @ 454-7213
5770 Copson Harry D @ 454-2925
5776 Sabados Martha A @ 454-7475
5777 Armstrong Warren W @ 459-5325
5783 Sanders David S @ 459-2586
*5784*Davis Jan @ 459-5235*
5787 Mc Arthur Colin @ 459-8388
5790 Ghosn Noel A @ 454-6371
5791 Kiely James P @ 459-5072
5794 White Leo J @ 459-2864
5795 Brantley Charlotte E Mrs @ 454-4483
5798 Mc Cosh Richd E @ 459-6418

93
FOLSOM DR BEGINS
CAMINO DE LA COSTA ENDS
5819 Carroll Velma @ 454-1508
5820*Mc Carty Leo W @ 454-5650
5827 Solano Richd V @ 454-0227
5828 Mc Culloch Christopher
5835 Nau Douglas E @ 454-5557
5836 Graeber Aldene P Mrs @ 459-3147
5903 Weigle Edw H @ 454-4082
5906 Boaz Geo L @ 459-0323
5912 Schricker G Robt @ 459-1944
5915 Binder Patricia D
5920 Aalbers John A 454-8460
5921 Lee Peter T @
5930 Benton Philip H @ 459-2247
5931 Trujillo Steph M @ 459-1923
5944 No Return
5959 Munroe W R
LA CANADA INTERSECTS
6001 Edwards Arth G Jr @ 459-1053
6008 Fuller Wayne L Rev 459-6039
6009 Nickerson Wm T III
6017 No Return
6018 Spector Morris @ 459-6060
6021*Person C A 456-2635
6030 *Under Constn*
6036 Moreno Manuel A @ 459-3980
6046 Brunet Emile J @ 454-6791
FOLSOM DR ENDS
6080 Paul Barbara Z Mrs @ 459-4942
6085 Stirnkorb Betty M @ 454-6965
6091 Mc Knight Douglas M @ 454-7516
6097 Young Richd S @ 454-5965
WAVERLY AV INTERSECTS

211
BELLEVUE PL (LA JOLLA)—FROM 5400 BELLEVUE AV EAST

ZIP CODE 92037
751 Patton M J Mrs @ 488-9968
759 No Return
767*Buccrarell Daryl E @ 488-4421
777 Bent Jane B Mrs @ 488-2027
785 No Return
795 Ackland Gillian M Mrs 488-9073

120
BELLINGHAM AV —FROM 3650 CHEROKEE AV EAST

ZIP CODE 92104
3675 Johnson Steven R @ 280-3017
3676 Cook Paul S
3679 Pierce Ray F 280-2477
3685 Reynoso Ramon @ 282-9409
3696 No Return

73
BELLOC CT —FROM 5162 EDGEWOOD RD EAST

ZIP CODE 92109
2105 Stough Morrow F III @ 273-6338
2106 Wavra Joseph J @ 270-0756
2118 No Return
2119 Chamberlain Stanley B @ 274-2844
2132 Henline P A @ 272-3391
2133 Gray Thos B @ 273-7008
2144 Hall Elsie O Mrs @ 272-1385
2145 Schmitt R Larry @ 273-7096
2156*Lau Silvanus @ 270-6581
2157 Smith Geo W @ 273-0256
2158 Rahilly Michl R @ 453-2166
2159 Hubbard Ronald D @
2180*Porter John W 272-8210
2181 Fiel Alan @ 273-7771
2192 Baldwin Raymond R @ 273-8212
2193 Larson A Wm @ 270-0493

565
BELLVALE AV —FROM 4500 DERRICK DR EAST

ZIP CODE 92117
5101 Pentz Edwin L @ 277-1349
5102 Vacant
5105 Tocco Vito @ 278-8133
5106 Jones Edw P @
5109 Tyshur Chas @ 279-8282
5110 Tang Thi @ 268-8651
5113 Erwin Ken @ 279-3714
5114*Johnson Linda A
5117 Drob Alex P @ 565-9574
5118 Tarrant Bart
5121*Poletta Emma Mrs @ 279-0104
5122*Casola Margt 278-8364
5125 Ehrhart Geo E @ 277-6072
5125*Fenwick Dale H
5129*Lawrence Rusty
5130 Hansen Paul R @ 278-8626
5133*Rowe Steph P
5134 Loo Lawrence K @ 278-7354
5137 Butler Donald R @ 292-6183
5138*Crowe James R 278-4307
5141 Bell David @ 565-2369
5142 De Leon Pedro @
5145 Rowe Richd T @ 277-0284
5146*Garrido Micario
5149 Koll Robt J @ 279-7749
5150 Simental Gregory @ 276-7468
5153 Trope Robt W @
5154 Vacant
5157 Stone Robt L
5158 Morin Edw R @
5161 Weidlich S L @
5162 Oliver Donald R @ 278-3139
5165 King Michl R 571-8591
5166 Vacant
5170 Matchke Jerome L 279-1990
5171 Finley Wm O @ 277-8577
5174 Schindewolf Richd F @ 277-0484
5177*Garcia Alexander T 279-8508
LYRIC LA INTERSECTS

230
BELMONT AV —FROM 4742 E MOUNTAIN VIEW DR EAST

ZIP CODE 92116
3801 Cooper Clyde A @ 281-2889
3811 Adamson Mildred E Mrs @
3812 Vacant
3819 Beck Nathl 563-8520
3820 *Morefield W Neil* @ 281-5833
3828 Kinninger Allan J @ 282-9581
3829 Ham Earleen @ 282-7500
3832 Vacant
3839*Woodward Bruce P-280-0352
3844 Woodward E Paul @ 282-2636
3853 Howard Alice M 284-3205
3858 Ross Virginia H Mrs @ 281-7074
3861 Armstrong Frank L @ 283-3819
3866 Sund Warren L @ 281-3288
3867 Corby Elwood M @ 284-8039
3875 Wills Steven 282-1480
3876 Kohrs Lewis P @ 281-0691
397TH ST INTERSECTS

369
BELOIT AV —FROM 3900 BLK ARVERNE ST EAST

ZIP CODE 92111
6802 Keagy M Tess Mrs @ 278-6744
6805*Judd Thos @
6826 Hall Leonard K 277-8310
6829 Grangfield Rodney 565-4327
6850 Jackson Eileen Mrs @ 277-3931
6853 Coley Jack R @ 278-6366
6874*Trygstad Mark 571-2062
6877 Ayles Donald L @ 565-4416
6906 Schwartz Richd E @ 279-0628
6907*Catalano Edw @ 565-8964
*6930*Farr Wm E @ 569-6179*
6931 Brandon Floyd @ 279-3192
6954*Zimmerman Epstein
6955*Stanhopes Stan
6975 Marcelo Gliceric @ 571-7916
6978 Trexel John E @ 277-7427

905
BELT ST E —FROM SOUTH OF CROSBY ST SOUTHEAST 1 WEST OF HARBOR DR

ZIP CODE 92113
DEWEY ST ENDS
SAMPSON ST INTERSECTS
2145 Kelco Co (Plant) chem mfrs 232-5363
2305 Delta Lines Inc coml trans line 234-8501
2307 National Pump & Injector Sales & Serv Inc 232-0831
2309 Vacant
2315 Blue Fin Grill 238-9649
SICARD ST INTERSECTS
HARBOR DR INTERSECTS

395
BELVEDERE ST (LA JOLLA)—FROM 7050 NEPTUNE PL EAST

ZIP CODE 92037
NEPTUNE ST INTERSECTS
215*Crawford Michl
215½*Thomas Mark
221 Russell Donald R @ 459-5382
226*Stitt R Dean 459-7091
VISTA DEL MAR ST INTERSECTS
304 Smith Leon F @ 454-5036
324 Manasse Virginia
325 Vacant
329 Vacant
331 Buccigrossi Deborah A
334 Fields Rita D @ 454-1989
338 Van Slyke L Paul asct @ 454-9219
340 Smith Fredk R @ 454-0204
341 Eckhart Walter @ 454-6283
351 Vacant
358 Wishart Harriet @ 454-6852
359 Atkins Jack M @ 454-6463
369 Duckworth Hugh M @
MONTE VISTA AV INTERSECTS
402 Hauer Geo W @ 459-1456
405*Zoalfler Nathan @ 459-6908
407 Grant Igor @ 459-8574
410 No Return
418 Melese-D'Hospital Gilbert @ 454-8974
421 Hyslop Charles P @ 454-5498
424 Ground Barbara D Mrs @ 454-7395
431 Stevens Donald E 459-2839
439*Orr Mary J 454-4496
440 Crutchfield John A @ 454-1439
442 Crutchfield James P 459-9151
447*Byerly Alyce 459-8743
450 Mattson Philip T Jr @ 454-6319
458*Vaus Wm 459-4584
459 Deverick Allan A 459-2729
460*Martin Janet 459-2481
461 Miranda Charles A @ 459-5963
462 Rovang Ingrid Mrs 459-5958
464 Vacant
469*Dolan Shirley 454-7683
LA JOLLA BLVD INTERSECTS

549
BEN ST —FROM 7200 BEAGLE ST NORTH

ZIP CODE 92111
3501*Coiner Erich E @ 560-4494
3511 Pena Eug @ 277-5514
3512 Ellington Glenn R @ 279-6845
3521*Panowitz Walter R @ 277-9885
3522 White Lorraine K Mrs @ 278-0852
3531*Grose David C @ 277-3554
3532 Johnson Bonnie J Mrs @ 279-5806
3541 Kamerling Russ 277-9746
3542 Ludlam Richd H @ 278-0409
3551 Varchol Donald G @
3562 Haley Ben 268-8812
3561 Van Horn Florence Mrs
3562 Jackson Victor E @ 277-7169
3571 No Return
3572 Poquette Vernon A @ 560-8892
3581 Davenport Gerald D @
3582 Schmitten Marlin J @ 278-5566
3591*Austin Lee L 569-1207
3592 Williams Lucille F Mrs 277-7042
3613 Devan J Michl 277-0851
3614 Baker Bryce S @ 292-5437
3624 Burns Kay Mrs
3633 Wendorf Vernon A @ 277-1598
3634 No Return
3643 Arbough S @
3644 Barrios John
3653 Stamy Edw J @ 277-3678
3654 Haluska Mary Mrs @ 278-4741
3663 Campbell John D @ 560-7629
3664 Hicks Tracy C @ 279-6054
3673 Yogerst James A @
3674 Carothers Edwin @
3683*Jenson Robt
3684 Gordon James W @ 278-0850
3695 Manning Edgar W ind eng @ 277-2749

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

SAMPSON ST 1984

963
SAMPLE ST —FROM TAUSSIG ST WEST TO SALMON ST

ZIP CODE 92124
10211*Daigne Sergu T 292-5938
10212 Vacant
10213*Martin Tommy C 571-8671
10214*Asuncion Leonardo
10215*Donaldson Richd V 565-9643
10216*Travis Donald W Jr 571-5323
10217 Batt Steven G 292-7797
10218*Stumpf Max J 576-0327
10231*Brunick Clifford
10232*Benalay P L 571-0706
10233*Richmond W D 571-7102
10234*Nurmi Kenneth
10235*Fry Robt O
10236 Montalbo Lee R
10237 Hidalgo Everiste T 292-8538
10238 Scott John L 560-1450
10251*Brittain Donald
10252*Zimmerman Donald A
10253 No Return
10254*Beasley Thos F 576-1853
10255*Pippin Roy W 571-1798
10256 Vacant
10257 Baranko Wm R 268-8397
10258*Dye D 268-8392
10271 Vacant
10272 Vacant
10273 O'Donnell Tom 560-4726
10274*Obrero Emirie P
10275*Smoky Ronald
10276 Larsen Richd A 279-4917
10277*Hairston Lilyburn
10278 Brough Bud D
10291*Hanssen Larry W 565-8383
10292 Booth John W 277-1762
10293 Lummus Johnny L 292-6537
10294*Aguallra Miguel
10295*Ratrdon John E
10296*Marcelo Dani
10297 Crawford John E
10298*De Jesus Nauro A 278-9091
SALMON ST INTERSECTS

318
SAMPSON ST —FROM 350 S 28TH ST SOUTHWEST

ZIP CODE 92113
202*Allejandro Alex 233-0357
206*Harra Soledad
222*Bolanos Maria
238 Mitchell Alberta Mrs 239-6961
CLAY AV BEGINS
241 Vacant
244 Samye Alphons 233-5758
FRANKLIN AV INTERSECTS
314 Burton Lucille S Mrs @ 323-1340
315 School Of Spiritual-Scientific Non-Med Midwifery priv sch 235-6984
Minzer Midwife natural homebirth 235-6964
Casserley Norman 235-6984
319*Bernard Candelaria @
323 Flores John @ 234-4206
324*Moreno Arturo @
325 Castillo Dimas
328 Apartments
1*Bell J 233-8174
2 Price Woodrow 232-4893
3*Ewell Julie
330*Salgado Adriana
OCEAN VIEW BLVD INTERSECTS
412 Vacant
414 Wrights Laundromat beauty shop
414½*Perez Francisco 233-8922
418*Valenzo Moises 230-1126
415 Boose Leland
415 Vacant
419 Medrano Juan C
420*Ortiz Linda
431 Sandoval Pedro @ 235-0597
441 Cardenas Felipe @ 233-0751

18
HARRISON AV INTERSECTS
512 Vacant
514 Cuevas Thos
515 Thomas Leonia C Mrs @ 239-2792
516 Cuevas Alphonso @ 233-4584
518 Jimenez Miguel 233-0531
520 Esparza Cruz Mrs 232-7286
522 Aliza Jose 232-9866
522*Davis Rose 233-8790
529 Galindo Hilaria G Mrs 236-0634
534 Hurtado Catalina @ 235-5910
546 Teresa's Grocery 232-0584
IRVING AV INTERSECTS
602*Gutierrez Cecilio 584-2241
609*Arrellano Jose 239-7680
611*Duran Enrique 233-6473
615*Guerrero O 239-0296
619 Vacant
621*Lopez Miguel 233-5143
623 Corona Isidoro M
625*Lockat M 232-7210
627*Johnson Doris A 232-7244
629 Garrison Ruth @ 233-0642
635 Sterling Bertha Mrs @ 236-0771
644 Cal Air Conditioning & Refrigeration 234-9383
Garay Jose E @ 233-3307
645*Ramos Antonio
JULIAN AV INTERSECTS
704 Hellman Bernardo M @ 234-0429
717 No Return
721*Lozano Jose M
724 No Return
740 No Return

18
KEARNEY AV INTERSECTS
INTERSTATE 5 CROSSES

LOGAN AV INTERSECTS
906 Corren Ramon F
908 Flores Amador
910*Figueros Maria D
911 Martinez Lucy V Mrs 231-3867
912*Guzman Jose L 234-2672
1*Bahena Javier J 239-4537
2 Vacant
3*Tatum M E 231-4831
924 La Popular Tortilleria (PCTY)
930 La Popular Tortilleria (Annex)
934*Garcia Jose E 234-4470
938 Vacant
942 Vacant
NATIONAL AV INTERSECTS
1016*Ruiz G V
1018 Douglas Vivian Mrs
1020 Aguilar Francisco
1022 Bonilla Guadalupe Mrs
1027*Maldonado Marilena
1037 Quintero Dolores Mrs 233-9770
1043 No Return
NEWTON AV INTERSECTS
MAIN ST INTERSECTS

905
HARBOR DR INTERSECTS
1304 Bayside Harbor Properties 233-8487
Propulsion Controls Engineering boiler repr 235-0961
AT&SF RY CROSSES
1336 S D G & E (Transformers)
1347 Ace High Transportation Inc frt trucking 234-4178
1348 San Diego Gas & Electric Co (Silver Gate Station) power sta
BAY FRONT ST INTERSECTS
BELT ST INTERSECTS
1401 National Petroleum Inc 239-0256
E BELT ST INTERSECTS
ft Southwest Marine shipbldrs 238-1000

68
SAN ALBERTO WAY —FROM 5200 TRINIDAD WAY NORTH

ZIP CODE 92114
311 Phillips Otha L @ 263-3923
312 Blackledge Saundra @
317 Taitano Guillermo P @
320 Gray Maurice @ 264-4223
323 Pence Helen M Mrs @ 262-3906
327 Shine Bill @
332 Morales Miguel @ 262-6172
335 Gay Millard F @ 263-1751
341 Simpson Mazie Mrs @ 262-5684
342 Johnson Eddie L @ 263-3519
347 Cox Evon Mrs @
403 Woods Louis G @ 262-1458
404 Lewis Charles M
411 Romero Hilbert M @
412 No Return
419 Burris Ross C @ 262-8917
420 Grant Carrie Mrs @ 264-7736
427 Arreola Julio M @ 262-8458
428 Stewart Bettye J Mrs @ 263-6261
433 De Leon Thomas @ 262-2547
436 Muckelroy Ruby R Mrs @
439 Vacant
444 Darrough Willie D @ 262-8931

373
SAN ANSELMO DR —FROM 4900 SAN JOAQUIN DR EAST

ZIP CODE 92109
2507 Williams Barbara
2514 Green Geo @
2516 Huetter Bernard R Jr @ 273-4619
2522 Lang Kenneth T @ 272-0302
2525 Casutt Max @ 272-0896
2530 Wixey John F Illustrator coml artist 270-3585
Wixey John F @ 274-5835
2535 Kramer Joseph R @ 274-5846
2538 Downs David L 274-0798
2543 Ballard James S @ 273-5885
2546 White Ray H @ 274-8478
2554 Buchanan David L 272-9378
2559 Doss Curtis R @ 270-7728
2562 Brentano Thos F @ 272-4954
PACIFICA DR INTERSECTS

39
SAN ANTONIO AV —FROM 1 EAST OF 300 ROSECRANS ST NORTH

ZIP CODE 92106
302*Bowers Ralph W 223-7660
306 Soul Rita H Mrs @ 222-9200
310 Rubio Henry H @ 224-1929
310½ Hernandez Fernando 224-1639
311 La Villa Plaza Apts
Seeberg Wm F
315 Earnshaw Evelyn R Mrs 224-7567
316 No Return
316½*Stanchfield Kiki A 225-1199
318 Reed Josephine S Mrs 222-9211
319 Duncan James O 224-0869
320 No Return
325 Brown Lois Mrs @ 223-8751
326 Springstead Wallace @ 223-1337
333 Johnson Earl W @ 226-1640
345 Morgan Kent 222-9284
KELLOGG ST INTERSECTS
352 Somes Fred 234-4558
353 Vista Del Bahia apts
1 Toomey Bernard C
2 Barry E J
3 Thompson Earl F @ 223-3226
4 Bagwell Lucille B Mrs @ 222-8365
5 Cannon Curtis W @ 224-9945
6 Winston B B 223-6980
7 Jessop Joseph E Jr 223-6478
8 No Return
9 Steen Noreen A Mrs @ 224-3846
STREET CONTINUED
362 La Playa Townhouse apts 223-8513
1 Davidson George C 224-9576
2 No Return
3 No Return
4 No Return
5 Duncan J D 223-9525
365*Bruyea R Paul 226-8768
367 Vacant
369 Kelly Jack A @ 233-7810
371 Welsh Robert J @ 224-0670
373 Mc Millan T M
375 Bruyea Paul R
379 Spicer Raymond D Jr @ 222-9079
385 No Return
390 Park La Playa Apartments 222-7242
1 Dunham Robt C 225-1342
2*Lewter Graham C 223-3730
3 Vacant
4 Pack H Conrad 222-7242
5 Hills Richd E 222-3891
6 Muir Fredk W 223-7358
7*Chandler A Scott 224-4736
8*Vaughn C K 223-9348
11 Albrecht Emile J Mrs 223-1444
12 No Return
13 Brennesman Beatrice E Mrs 223-0110
14 Duncan Robt B 224-4774
15 Stefanson Dolly J Mrs @ 224-1372
16 Ackerman Carl J Jr 223-6940
LAWRENCE ST INTERSECTS
404 La Playa Condominiums
404a Byrnes Geo H @ 222-0947
404b Wilhoit John W Jr @ 223-1203
404c Heazler John D @ 222-4818
404d Dicker Robt 224-0880
404e No Return
404f Neyenesch Fred F @ 225-8772
404g Vanier Kieran F @ 224-0617
404h Benjamin Burton J
404i Reaves Peter C
404j Kahn Zila
404k Rashek John J 222-6073
404l Nelson Geo A @ 222-5304
404m Guymon J Irons 223-6007
404n Hage W
4040 Stover Wm W 223-8972
405 Boehm Wm R @ 224-6927
429 Hustar Brian
430 Apartments
1 Mac Donald Fay Mrs 222-9568
2 Blanchard H M 222-5160
3 Humes Rita H Mrs
4 Heiser M Bert 422-8455
5*Fireman Robt C 224-6650
6*Dau Debra 225-1634
431 Harop John W @ 224-0381
440 Point La Playa apts
1 Danalls Mabel N Mrs @ 224-5462
2 Trumbo Marjorie B Mrs 223-3845
3 Edmonds Thorpe L 222-4682
4*Mcintosh T W
5 Eves Harriett P Mrs @ 222-4312
6 Muser Geo B 224-3341
7 Kennedy Roger @ 222-2056
8*Warmer H C @ 223-1982
9 De Long Charles B Jr 223-7647
10 Steinbeck Stanford E 222-2546
11 Hadel Wm N @ 233-7632
12 Woodard Helen O Mrs @ 223-7616
STREET CONTINUED
441 Vacant
449 No Return
MC CALL ST INTERSECTS
NICHOLS ST INTERSECTS
OWEN ST INTERSECTS
545 Ballard A Verne @ 223-8328
555 Brown Phyllis M Mrs 222-9639
566 Stone Phyllis M Mrs @ 222-9227
567 Burns C T 222-4666
581 Under Consn
584 Gould E Gartzmann @ 226-0456
586 Johnson Alan H @ 224-3822
594 Ensey Charles R @ 222-2070
595 Carter Hugh C @
PERRY ST INTERSECTS
604 Grant Roger L @ 224-4242
615 Lister Marcia J Mrs @ 223-1559
616 Vacant
624*Olson Richd 222-1972
NOREN PL BEGINS
630 Rivera Murray @ 223-2873
636 Pyle Brawley H 224-5806
645 Schaffer Nancy D @ 224-6000
648*Caris Wm 223-0212
QUALTROUGH ST INTERSECTS
650 Sillman F Raymond @ 222-7837
666 Roberts James R @ 224-5925

39
SAN ANTONIO PL —CONTINUATION OF SAN ANTONIO AV

ZIP CODE 92106
509 No Return
521 Armour Ogden B @ 222-1700
545 Hanna Fidelia Mrs @ 223-7230
550 North Lowell O @ 222-8921
551*Monroe Lee @ 226-8881
555 Reynolds Jas F @ 222-0796
556 Smith Norman T @ 222-6897
562 St George William R @
565 No Return
569 Tyson Robt E bldg contr @ 222-3621
570 Felando Aug J @ 223-7654
571 Newton W H @ 234-5820
573 Donnelley John A @ 223-1003
574 Townsend Richd E 222-2555
576 Sharp Ulysses 222-2405
577*Russell Helen S
580 Vacant
588 Vacant

73
SAN AQUARIO DR —FROM 2400 ROMNEY RD SOUTH

ZIP CODE 92109
5004 Bolduc Maurice K @ 274-1084
5007 Hanson C Edw @
5010 Lewis Muriel J Mrs @ 273-7692
5015*Andreach John
5023*Quinby John W
5026 Carey Robt K @ 272-1180
5031*Cairncross Jos E @ 270-1171
5035 Roodhouse Ben O Jr @ 274-6054
5036 De Bold Joseph F @ 273-8245
5043*Burgeaud Geo @ 274-4402
5044 Jacobson Geo A
5051*Seid Colin 483-4453
5052 Larson
5059 Gregory John A 483-3436
5060 Worcester W J @ 270-5729
5067 Vacant
5068 Engler Ludmillak Mrs @
5075 No Return
5076 Nizyborski Edmund 274-4478
5081 Sams Brently K @ 273-8709
5082 Jose Myron L @ 272-8690
5101 Picone Joseph W @ 274-3416
5102 Rath E Ray @ 274-3985
5110 Hoffman Bronson @ 274-6386
5111 Samuels Bernard L @ 274-6376
5118 Wilbur Bud @
5121*Greene Stacie 483-1915
5125 Hill Albert M 272-8182
5132 Madison James
5137 Vacant
5145 Irvin Eliz B Mrs @ 274-0945
5148*Regan Herman L
5150*Lank Carol
5153 Cohen Saml @ 273-8167
5162 No Return
5171 Jardine Theo P Jr @ 273-7513
5172 Mulvaney Jas F @ 273-3331
5181 Dort James M @ 274-5189
5182 Schall John T @ 273-5100
5187 Haworth Arth F @ 273-2592
5190 Wilhite Sampson L Jr @ 274-7086
5193*Cary James S @ 270-5177
5199*Gregory Rick 483-5517

68
SAN BERNARDO TER —FROM 5200 LA PAZ DR EAST

ZIP CODE 92114
5202 Stokeley J E @ 262-7629
5203*Maddock Robt @ 263-2953
5206*Goodie Willa M Mrs @
5207 Moore Geo A @
5211 Gay Leonard @ 262-8843
5212 No Return
5216 Graham Carolyn Mrs @ 263-6230
5217 Williams Agnes
5222 Warren Barbara A Mrs 262-2501
5223 Thompson Joseph L @ 262-8286
5228 Southern Alberta A Mrs @ 264-8977
5229 Woolridge Connie B 264-0868
5252 Turner Joe W @ 262-1776
5235 No Return
5237 No Return
5243 Haffenden Robt F mus tchr @ 262-2785
5251*Mc Cann James E 264-9101
5259*Johnson K
5265 Johnson Robt @ 264-1022
5273 Smith James L @ 264-7748
5280 Johnson Malvin @ 264-3696
5286 Johnson Charlie
5292 Murray Lonzadell H Mrs @ 262-1558
LA PAZ DR INTERSECTS
5305 Jones Alex @ 264-3777
5306 No Return
5314 No Return
5324 Martin Robt L @
5327 Collins Eula Maye @ 264-5114
SAN JACINTO DR

245
SAN CARLOS DR —FROM 6500 COWLES MOUNTAIN BLVD EAST

ZIP CODE 92119
7903 Overholser Roger
7904 Lane John @
7909 Bradshaw Kenneth @ 460-3769
7914 Hammer Geo J @
7915*Franco Steven @ 462-5159
7921 Birgel Robt @ 469-7075
7927 Mash Harold R @ 461-7627
7930 Cabesina J L
7933 Krull Russell O @ 466-9396
7939*Prince C 698-5860
7940 Horstman Helen M Mrs @
7947 Shecora Joseph J @
7948 Peterson Lynwood S @
7955 Rilling Victor @ 696-3909
7956 Williams M D @ 463-7530
7963 Rinder Raymond W @ 460-2454
7964 Orlando Joseph P @ 463-1964
7973 Fulmer Gerald M @
7974 Mc Minn Barbara Mrs @
7983 Deeds Orlo M @ 469-9614
7984 Kosmas Mike @ 463-0196
7994 Tenney Stanley E @ 466-1642
BANTAM LAKE AV INTERSECTS
8003 Bates Chas B
8015*Dixon Robt @ 465-4027
8027*Johnson L P Mrs 460-8148
8039 Crismon John
8051 Tellez Victor 698-0291
8063 Somes Tom A @
LAKE BADIN AV INTERSECTS
8103 Earp Homer D @
8113 Luntzel James R Jr @ 461-9639
8123*Ahmad Omar A 462-6219
8133*Mc Breaty James @ 697-5611

BAY FRONT ST 1980

BATES ST—Contd
5731 Apartments
125 Chappan Richd Y 583-2748
126 Kostel Larry J
127 Culberson M A Mrs 286-2086
128★Rogers Duane 265-1816
5734 Apartments
25★Smith V
26 Asaeby Tina C 583-8589
27 Hawkins Herman H
28 No Return
29 Williams Florence T 583-1969
30★Phuong So Mrs 286-2278
31★Tolliver Regina
32★Cloud Cleopatra 265-7509
33★Holmes Debra 582-0688
34 No Return
35★Roberts Dorothy E
36 De Locht John L 583-5662
5737 Apartments
129★Rotz David 286-0375
130 Reagan Leo R 582-6151
131★Jones Wm P
132★Stratson Lina 265-2797
133★Coffman Joann 286-1321
5738 Apartments
21★Bortnik Yuka 286-8915
22★Farasa Masood
23★Lemons Donald C 265-7506
24 Harris Tricia R
5739 Apartments
133 Hill M 286-0459
134 Phillips Steph 287-6617
135★Green Donna L 286-0302
136 Archer Paul C
5740 Apartments
17★Klein Helen
18 Spence Jay D 582-4045
19 Harner Ruth M 583-5740
20★Gonzales Bobby 583-3708
5741 Apartments
137★Lefemine Janis K 286-9706
138 Vacant
139 Fayer J 265-0591
140 Howser Thos J 582-2168
5742 Apartments
13★Suk Tae Don 582-3798
14★Klempan Cath A 287-4604
15★Conyer Darryl A 286-8463
16★Flournoy Darlene R 265-1973
5743 Apartments
141★Thompson Jerry F
142 Coffey June L 287-3180
143 Banks Leona M
144 Jackalone Linda R Mrs
5744 Apartments
9 Georgatos Arsanoi 582-0750
10 Simons Lucia H Mrs 582-9286
11 Hill Kathleen M Mrs 583-2950
12★Rolsten Karla
5745 Apartments
145★Marshall Sharon L
146 No Return
147★Adams Rhonda
148 Guernsey David M 583-4924
5746 Apartments
4 Klose Alan 287-6864
5 Lutz Mack
6★Simmons Doris M Mrs 286-9136
7★Spark Flora
8★Gonzales Raul 286-8457
5747 Apartments
149 Deaton C Steve 582-4326
150 Cook Edith J Mrs 286-2807
151 Vacant
152 Bentson Evelyn M Mrs 583-8815
5748 Shady Hollow Apartments 583-2232
1★Casna Hilda 286-3190
2 Womack Elsie R Mrs 287-8365
3 Shady Hollow Apts (Ofc) 583-5170
4★Williams Gerard A 287-1166
5749 Apartments
153★Wright G W 265-7184
154 Vacant
155★Archer Robt V 286-7515
156★Gardner Steph
58TH ST INTERSECTS

369
BATISTA ST —FROM 3800 ARVERNE ST EAST

ZIP CODE 92111
6903 Allen Lyndall D ◎ 278-4902
6919 Mc Kelvey Gary P
6924 Gibbons Donald R ◎
6935 Jenkins Thos A ◎ 292-9259
6951 Wyttenbach Ben L ◎ 279-0280
6958 Rhodes W L ◎ 277-2176
6967★Mendez Jose ◎
6976 Staats Michl C 277-3795
6979 No Return
6988 Capelotti Michl E ◎ 277-4085
6991 Baumgarten Robt H ◎ 277-7745
6998 Balistreri Salvatore ◎ 279-3640
BROADLAWN ST INTERSECTS
7003 Distefan Albert M ◎ 279-2772
7015 Vieira Celeste Mrs ◎ 277-4582
7027 Berggren Tom ◎ 279-7899
7039 Hughes Lois E Mrs ◎ 279-9686
7051 Reitmeyer Ronald R ◎ 278-0126
7063 Wright Donald E ◎ 277-1488
7075 No Return
BIDDLE ST INTERSECTS
7123 Armstrong E ◎ 560-7123
7124 Walden James A ◎ 277-7654
7131 Saraceno Albert ◎
7132 Empey Boyd J ◎ 277-4207
7139 Larson Robt A ◎ 277-2937
7140 Garner Herbert H ◎ 277-0847
7147 Allen Floyd E ◎
7148 Arnette David E ◎
7155 Schmidt Martha J Mrs ◎ 277-4164
7156 Vacant
7163 Dunn Glenn A ◎ 279-8491
7164 Wagner Dennis E 277-7290
7171 Yost Frank L ◎ 278-6195
7172 Hubbard Kenneth R ◎ 277-9046
7179 Mc Clure Harold L ◎ 277-1422
7180 Vacant
7187 Hammond Harry F ◎ 277-5079
7188 Gross David V ◎ 279-1523
HATTON ST INTERSECTS

63
ARMSTRONG ST INTERSECTS
7402 Glithero Phyllis O Mrs ◎
7410 Vacant
7416 Hoover Joan V Mrs
TIARA ST ENDS
7422 Lang Clara L Mrs ◎ 560-6654
7423 Dunaway W Frank ◎
7429 Greer Jack Jr ◎ 278-0208
7430 Festa Alice M Mrs ◎ 279-5318
7436 Dunigan A C ◎ 279-8434
7437 Wood Robt H ◎ 279-2684
7442 Herman Carl
7443 Diaz Anthony ◎ 277-6310
7448 Christopher Henry ◎ 277-0460
7449 No Return
7454 Adams Myrl L ◎ 279-5794
7455 Santiago Danl ◎
7460 Johnson Darrel L Rev ◎ 278-5802
7461 Asaro Mateo ◎
7468 Smith Gerald V ◎ 277-7300
7469 King Alan R ◎ 279-0893
7474 Ugaitafa Iata ◎
7475★Magnus Pamela E
ARGYLE ST INTERSECTS
ASHFORD ST INTERSECTS
ANTIEM ST INTERSECTS

647
BAUSELL CT —FROM SNOOK ST WEST

ZIP CODE 92124
10155★Robinson Ronald
10157★Gracia Manuel
10160 Grant James A
10165 Montgomery Jeffrey D
10166 Hamill Larry 292-0327
10167 Hedlund James D 278-7046
10170 Susalla Wayne T 268-3196
10175 Mathis Jake W 560-0527
10176 Shatokin James T 560-5086
10177★Zimmerman Robt F 569-0890
10180 Carter Joseph N 279-8578
10185 Williams Paul K
10186★Cadiz Joe
10187★Gresham Robt J 268-8361
10190★Smith Benson
10195 No Return
10196★Grave Charles L 571-8688
10197 Vacant

647
BAUSELL PL —FROM SNOOK ST WEST

ZIP CODE 92124
10170 Finkle Jack L 565-9622
10175 Cambelle Clifford D 297-9850
10176 Scott Charlie 292-5329
10177 Shadowens Robt 560-5306
10180 Calloway Robt E
10185★Thomas Charles 571-7816
10186 Guevara Adolfo H 268-8542
10187 Vacant
10190 Wenck Roger H 571-8827
10195★Hazen David C 292-7138
10196 Haywood Wm L 571-5143
10197 Furgeson Timothy 571-8475

667
BAXTER CT —FROM 5190 BAXTER ST WEST IN A SEMI-CIRCLE

ZIP CODE 92117
4633 Hively Robt R 272-3381
4636 Guthrie Robert V 270-1045
4648 Dominguez Carmen ◎
4655 Hayhurst Robt E ◎ 276-3231
4666 Thies Fredk A ◎ 273-8507
4677 Ishihara Mitsuo 273-7371
4684 Weber Herbert E ◎ 274-4907

667
BAXTER ST —FROM 4800 CONRAD DR NORTH

ZIP CODE 92117
5010 De Bolt Della F Mrs ◎ 274-2880
5011★Wilhoit Emmett L
5018 Jue Beatrice Mrs ◎ 273-4535
5025 Gonzalez Hector ◎ 276-1894
5026 Hines Nancy C Mrs
5034 Romero Wilfred ◎
5035 Peveler Theodore E ◎ 275-0691
5042★Kassleman Lawrence
5043 Johnston John E ◎ 270-2067
5050 Parker Ernest R ◎ 276-2622
5056 Bagwell Mary C ◎ 275-0346
APPLETON ST INTERSECTS
5061 Gaddy Lloyd A ◎
5062 Mc Corie Jennie Mrs ◎
5068 Rice Alton L ◎ 276-8687
5069 Hoover Ruth M Mrs ◎ 273-7759
5074 Buckman Ernest A ◎ 276-8922
5075 Bakos Andre J ◎ 272-4459
ABERDEEN ST INTERSECTS
BRILLO ST INTERSECTS
5080 Hawhee Gordon W. ◎
5081 Majewski Michl 843-3273
5086 Wagner Wayne M ◎ 273-3550
5087 Miller Raymond C ◎
5094 Sunset Carpet Service cln 272-5674
Pasquarella Fred A 272-5674
5095 Barnes Douglas G 272-2258
LEHRER DR INTERSECTS
5102 Hepburn Richd D 270-9534
5111 Simonds Virgil D ◎ 273-1613
5112 Hewey Paul L ◎
5120 Reece John ◎ 273-1030
5121 Stagner Coy S ◎ 273-6123
FIRESTONE ST INTERSECTS
5131★Welch Michl R ◎ 270-8875
5141 Phillips David L ◎
5144 Olson Geo W ◎ 274-8577
5150 Nelson Garth C ◎ 274-9013
5151 Vacant
BAXTER CT INTERSECTS
5156 Peterson John J ◎ 276-8245
5159 La Rocca J M 275-2681
5165 Sinnott Jack ◎ 274-7819
5170 Schuler Home & Apartment Repair 270-3080
Schuler Wm J ◎ 274-6541
5175 No Return
5188 Prazmark James A ◎ 276-0740
5189 Miller Alma E Mrs ◎ 276-2685
5198 Balistreri Andrew ◎ 274-8970

217
BAY CANYON CT —FROM A DEAD END SOUTH OF 4510 GESNER ST NORTH

ZIP CODE 92117
2702 Glover Richd N ◎ 275-0870
2706 No Return
2710 Geren Robt P ◎ 276-2074
2714 Pena Gary G 276-1865
2717 Matson Jack 276-7833
2718★Dubler Kenneth 276-0769
2722 Teotico Genaro R ◎ 276-8780
2723 Atkinson David C 276-9210
2729★Brown Jim
2735★Manlove Mark
2741 Larsen D B 276-9049
2747 Carlino Josephine 276-6702
2795 Mc Cracken Howard B 275-3123
2828 Cherif Jamel E 276-1254
2838★Hendrickson Steph
2848 Minor John C 276-7211

905
BAY FRONT ST —FROM 1400 CROSBY ST SOUTHEAST

ZIP CODE 92113
1860 Vacant
1995 Bumble Bee Seafoods canners 235-0160
State Health Dept (Cannery Inspection) 237-7199

17
BAY VIEW CT —FROM 1859 LYNDON RD SOUTH

ZIP CODE 92103
4031 Smith Geo H ◎ 295-5645
4047 Van Norman Allen ◎ 296-6451

383
BAYARD ST —FROM 1 SOUTH OF 900 PACIFIC BEACH DR NORTH

ZIP CODE 92109
4005 Scripps Thos O ◎ 272-0650
4025 Criscola Anthony P ◎ 272-0610
PACIFIC BEACH DR INTERSECTS
4104 Bishop Jane Mrs ◎ 275-3118
4110 Beckett Herbert L ◎ 488-8120
4120★Freeman Richd R ◎ 488-4696
4121 Tichenor W Bruce ◎ 274-8569
4127 Tammen B F ◎ 272-1436
4128 Vacant
4138 Tellous Margie B Mrs ◎ 488-2238
OLIVER AV INTERSECTS
4204 Mesner Steve M ◎ 273-5286
4205 Gelardi Charles W ◎ 272-2508
4211 Laird Roy M ◎ 272-2437
4212 Alderson John A ◎ 488-6307
4217 Earle R Kenwood ◎ 270-5344
4218 Berger Robt A ◎ 272-2514
4225 Dickson K A 270-5201
4226 Dunbar Annie S Mrs ◎
4236 Whitman Jack H ◎ 488-5635
4239 Sugita Sam I gdnr ◎ 272-2365
4242 Mecklenborg Theo F 274-1798
REED ST INTERSECTS
4277a Graham John H 270-0820
4277b No Return
4285 Donovan Paul J
4287 Brewer Patricia
4289 Anderson Lee W Mrs 488-6981
THOMAS AV INTERSECTS
4310★Kelly Edith M
4316 Ryder Thos F 273-1018
4340 Denton Ruth Mrs ◎
No Return
4348 Hair Incorporated beauty salon 488-3194

83
GRAND AV INTERSECTS
4406 Drake Realty Co 488-2886
4408 Vacant
4410 Vacant
4412 A B R A Crown Employment Agcy 488-0505
4414 Anchor Travel Agency 270-6080
4425 Hughes Karen 272-1824
4435 Schmitz Mildred B 272-1792
4441 Mann Frances Mrs
HORNBLEND ST INTERSECTS
GARNET ST INTERSECTS
FELSPAR ST INTERSECTS
4617 Capehart Kenneth 488-8770
4627 Kilgore Mary M Mrs 488-5136
4629 Hoffman Tom 270-6844
4630 Platt Douglas ◎ 276-9216
4631 Niehoff Cath A 488-4216
4633★Barger Jeanne Mrs 488-3217
4635★Newton Wm 483-3325
4637 Ruggles Bud E 270-9764
4639 Crawford Roy 488-5490
EMERALD ST INTERSECTS
4650★Lee A M 483-1907
4652 Trifanolif Nikola 274-0513
4654 Thalken A 488-5163
4655 Miller Charles J 488-0397
4656 Schofield Peter D 488-8625
4657 Elliott Patricia D 488-6810
4659 No Return
4661 Holland Dannu I
4663 Gross Betty Mrs 488-2336
4679★Traynor Brien
4684★Featherstone James 270-6256
4686★Grieg Joe Jr 488-2933
4688 Vacant

87
DIAMOND ST INTERSECTS
4725 Gianiotes Harriett
4726 Adamov Paul 270-9814
4727★Fimbres Ernest R
4728★Mac Millan E 274-3415
4737 Britt Wayne W 488-0906
4739 No Return
4741★Razo Ramiro
MISSOURI ST INTERSECTS
4758★Jones Danl 488-0301
4765 Philippe Marc ◎ 488-4004
4766 De'leon avis M
4776★Trenfel Loreli
4777 La Rochelle Florence D Mrs ◎ 488-2669
4780 Western Adventure Tours tour apr 272-7795
CHALCEDONY ST INTERSECTS
4815 Spramelli K 272-8092
4824 Marcello Riggio
4826 Pingel Carl P ◎ 488-4020
4827 Aldrich Mildred Mrs ◎ 488-5645
4878★Corey Joseph J
4890★Musial B M Mrs 272-1544
LAW ST INTERSECTS
BERYL ST INTERSECTS

BELLEVUE AV (LA J)—Contd
5819 Carroll Velma @ 454-1508
5820 Voegtle Richd B @
5827 Solano Richd V @ 454-0227
5828 Mc Cullach Christopher
5835 Nau Douglas E @ 454-6557
5836 Graeber Aldene P Mrs @ 459-3147
5903 Weigle Edw H @ 454-4082
5906 Boaz Geo L @ 459-0323
5912 Schricker G Robt @ 459-1944
5915★Binder Patricia D
5920★Aalbers John A 454-8460
5921 Lee Peter T @
5930 Benton Philip H @ 459-2247
5931 Trujillo Steph M @ 459-1923
5944 Moeller James E @ 459-1303
5959★Munroe W R
LA CANADA INTERSECTS
6001 Edwards Arth G Jr @ 459-1053
6008★Fuller Wayne Rev
6009★Nickerson Wm T III
6017 No Return
6018 Spector Morris @ 459-6060
6021★Schalit Louis 459-4585
6030 Cooke Florence E @ 454-1008
6036 Moreno Manuel A @ 459-3980
6046 Brunet Emile J Jr @ 454-6791
FOLSOM DR ENDS
6080 Paul Barbara Z Mrs @ 459-4942
6085 Stirnkorb Betty M @ 454-6965
6091 Mc Knight Douglas M @ 454-7515
6097★Young Richd S @ 454-5965
WAVERLY AV INTERSECTS

211
BELLEVUE PL (LA JOLLA)—FROM 5400 BELLEVUE AV EAST

ZIP CODE 92037
751 Patton M J Mrs @ 488-9988
759 No Return
767 Simonds Ann F Mrs @ 488-3497
777 Bent Jane B Mrs @ 488-2027
785 No Return
795 Ackland Gillian M Mrs 488-9078

120
BELLINGHAM AV —FROM 3650 CHEROKEE AV EAST

ZIP CODE 92104
3675 Johnson Steven R @ 280-3017
3676★Cook Paul S
3679 Pierce Ray F 280-2477
3685 Reynoso Ramon @ 282-9409
3696★Mc Gee Mazie Mrs 280-6724

73
BELLOC CT —FROM 5162 EDGEWOOD RD EAST

ZIP CODE 92109
2105 Stough Morrow F III @ 273-6388
2106 Wavra Joseph J @ 270-0756
2118 Stinson
2119 Chamberlain Stanley B @ 274-2844
2132 Henline P A @ 272-3391
2133 Gray Thos B @ 273-7008
2144 Hall Elsie Mrs @
2145 Schmitt R Larry @ 273-7096
2156 Geibel Donald @ 274-5249
2157 Smith Geo W @ 273-0256
2168★Rahilly Michl R @ 483-2168
2169 Hubbard Ronald D @
2180★Johnson Jerome
2181 Fiel Alan @ 273-7771
2192 Baldwin Raymond R @ 273-8212
2193 Larson A Wm @ 270-0493

565
BELLVALE AV —FROM 4500 DERRICK DR EAST

ZIP CODE 92117
5101 Pentz Edwin L @ 277-1349
5102 Morris Walt
5105 Tocco Vito @ 278-8133
5106 Jones Edw P @
5109★Tyahur Chris @
5110★Tang Thi @ 268-8651
5113 Erwin Ken @ 279-3714
5114★Fryer Robt 278-1848
5117 Drob Alex P @ 278-8068
5118 Tarrant Bart
5121★Polletta Guerino @ 279-0104
5122★Loly Scott 268-0819
5125 Ehrhart Geo E @ 277-6072
5126 No Return
5129★Bennett James G
5130 Hansen Paul R @ 278-8626
5133★Hoofard Ron
5134 Loo Lawrence K @ 278-7354
5137 Butler Donald R @ 292-6183
5138★Dye H P
5141 Bell David @ 565-2369
5142 De Leon Pedro @
5145 Rowe Richd T @ 277-0284
5146★Aardsvold T E
5149 Koll Robt J @ 279-7749
5150 Simental Gregory @ 278-7468
5153 Trope Robt W @
5154 Vacant
5157 Stone Robt L 565-2231
5158 Morin Edw R @
5161★Weidlich S L @
5162 Oliver Donald R @ 278-3139
5165★King David
5166 Conway June A Mrs @ 279-2125
5170★Matchke Jerome L 279-1990
5171 Finley Wm O @ 277-8577
5174 Schindewolf Richd F @ 277-0484
5177 Vacant

230
BELMONT AV —FROM 4742 E MOUNTAIN VIEW DR EAST

ZIP CODE 92116
3801 Cooper Clyde A @ 281-2880
3811 Adamson Mildred E Mrs @
3812 Vacant
3819★Beck Nathl 563-9520
3820 Morefield W Neil @ 281-5833
3828 Kinninger Allan J @ 282-9581
3829 Ham Earleen @ 282-7500
3832 Vacant
3839 No Return
3844 Woodward E Paul @ 282-2636
3853 Howard Alice M 284-3205
3858 Ross Virginia H Mrs @ 281-7074
3861 Armstrong Frank L @ 283-3819
3866 Sund Warren L @ 281-3288
3867 Corby Elwood M @ 284-8039
3875 Wills Steven 282-1480
3876 Kohrs Lewis P @ 281-0691
39TH ST INTERSECTS

369
BELOIT AV —FROM 3900 BLK ARVERNE ST EAST

ZIP CODE 92111
6802 Keagy M Tess Mrs @ 278-6744
6805 Adams Norman A @ 279-3749
6826 Hall Leonard K @ 277-8310
6829★Grangfield Rodney 565-4327
6850 Jackson Hiram E Jr @ 277-3931
6853 Coley Jack R @
6874 Hess Jerry A 565-4641
6877 Ayles Donald L @ 565-4416
6906 Schwartz Richd E @ 279-0628
6907 No Return
6930 Lang Robt F @ 277-6239
6931 Brandon Floyd @ 279-3192
6954★Lopez Paul
6955 No Return
6975 Marcelo Glicerio @ 279-3919
6978 Trexel John E @ 277-7427

905
BELT ST E —FROM SOUTH OF CROSBY ST SOUTHEAST 1 WEST OF HARBOR DR

ZIP CODE 92113
DEWEY ST ENDS
SAMPSON ST INTERSECTS
2145 Kelco Co (Plant) chem mfrs 232-5363
2305 Delta Lines Inc coml trans line 234-8501
Air Express International air freight forwarder 236-1637
2307 National Pump & Injector Sales & Serv Inc 232-0831
2309 Southland Transportation Corp freight carrier 236-1637
2315 Blue Fin Grill 238-9649
SICARD ST INTERSECTS
HARBOR DR INTERSECTS

228
BELTON AV —FROM 6195 MONTEZUMA RD WEST

ZIP CODE 92115

395
BELVEDERE ST (LA JOLLA)—FROM 7050 NEPTUNE PL EAST

ZIP CODE 92037
NEPTUNE ST INTERSECTS
215★Huddleston Darrell D
215½★Farley Steve
221 Russell Donald R @ 459-5382
226 Drake Ann A
VISTA DEL MAR ST INTERSECTS
304 Smith Leon F @ 454-5036
324★Manassa Virginia @ 454-8440
325★De Francisco Michl @
329 Vacant
331★Buccigrossi Deborah A
334 Fields Rita D @ 454-1989
338 Religious Sciences Ch Of San Dieguito (Admn Ofc) 456-2300
Van Slyke L Paul acct @ 454-9219
340 Smith Fredk R @ 454-0204
341 Eckhart Walter @ 454-6283
351 Drake Margt P Mrs @ 459-5833
358 Wishart Harriet @ 454-6852
359 Atkins Jack M @ 454-6463
369★Duckworth S M @
MONTE VISTA AV INTERSECTS
402 Hauer Geo W @ 459-1456
405 Shepard June @ 459-6908
407 Grant Igor @ 459-8574
410 No Return
418 Melese-D'Hospital Gilbert @ 454-8974
421 Hyslop Charles P @ 454-5498
424 Ground Barbara D Mrs @ 454-7395
431★Stevens Donald E
439 Lamothe Charles J 454-5450
440 Crutchfield Beatrice P Mrs @ 454-1439
442 Crutchfield James P @ 459-9151
447★Karinen Allen R @
450 Mattson Philip T Jr @ 454-6319
458 Donald Nancy M 454-0697
459 Deverick Allan A 459-2729
460 Stover Allan J 459-5622
461 Mirandon Charles A @ 459-5983
462★Rovang Ingrid Mrs 459-5958
464★Holbrook Ann Mrs 456-1574
469 No Return
LA JOLLA BLVD INTERSECTS

569
BEN ST —FROM 7200 BEAGLE ST NORTH

ZIP CODE 92111
3501 Vogan James W @ 279-6013
3511 Pena Eug @
3512 Ellington Glenn R @ 279-6845
3521 Donnelly Robt F @
3522 White Lorraine K Mrs @ 278-0852
3531 Coath Robt L @ 277-9668
3532 Johnson Bonnie J Mrs @ 279-5806
3541 Kamerling Russ 277-9746
3542 Ludlam Richd H @ 278-0409
3551 Varchol Donald G @ 277-5038
3552★Haley Ben 268-8812
3561 Van Horn Florence Mrs
3562 Jackson Victor E @ 277-7169
3571 No Return
3572 Poquette Vernon A @ 560-8892
3581 Davenport Gerald D @
3582 Schmitten Marlin J @ 278-5566
3591 Vacant
3592 Williams J H 277-7042
3613 Devan J Michl 277-0851
3614 Baker Bryce @ 277-5236
3624 Burns Kay Mrs
3633 Wendorf Vernon A @ 277-1598
3634 No Return
3643 Arbough S
3644 Barrios John
3653 Stasny Edw J @ 277-3678
3654 Haluska Mary Mrs @ 278-4741
3663 Campbell John D @ 560-7629
3664 Hicks Tracy C @ 279-6054
3673 Yogerst James A @
3674 Carothers Edwin @
3683 Vacant
3684 Gordon James W @ 278-0850
3695 Manning Edgar W ind eng @ 277-2749
3696★Salvatierra Fernando 569-8155

363
ARMSTRONG ST INTERSECTS
3701 No Return
3702 Yasinski John @
3707 Eckert Orrin D @ 278-9267
3708 Maiers Ruby Mrs @ 277-1027
3714 Tincup Cathleen Mrs
3715 Perry Sally A Mrs @ 277-8421
3720 Ribas Pete P @
3721 Blue Douglas @ 277-7225
3727 Mosley James A @
3730 Wray Francis M @ 277-8136
3733 Mason John P @ 277-8074
3738 Beebe James E @ 277-8558
3740 Cox Richd E @ 277-6352
3746 Miller Mathew J @ 278-1689
BAGDAD ST BEGINS

63
3801 Hartsough Christopher @ 292-0243
3809 Kantro Henry @ 277-3252
3810 No Return
3817 Cates R Frank @ 277-5545
3818 Blackwell Ora T Mrs @
3825 Jackson Lewis N Jr @ 279-1450
3826 Montgomery Calvin L @ 279-0980
3833 Eckes James @
3834 Stroud Sandy J @ 278-0017
3842 No Return
3845 Bromann Wm F @ 277-3974
3850 No Return
3856 Ray J D @ 277-3513
3861 Settle Harry D @ 279-6453
3864 M L Construction Co 278-1039
Ogden Alan D @ 278-1039
3869 Stonebraker Terry @ 292-7883
3872 Smith Steph L @ 278-9481
3877★Waslewski John W @ 279-6112
3880 Baldridge Wilbert L @ 277-8349
3883 Sellers Raymond B @ 277-8602
3889 Overway Ethel G Mrs @ 277-1373
3895 Salazar Enrique H @ 565-8654
ARGYLE ST ENDS

272
BENDIGO COVE —FROM 7750 BENDIGO RD NORTH

ZIP CODE 92126
10777★Fareed Yasir @
10780 Ahlgren Janice L Mrs @ 566-0745
10785 Singh Rama N P @ 566-6795
10790 Herr Sally @
10793 Hom Jing Y @ 566-6237

272
BENDIGO RD —FROM 10800 PARKDALE AV EAST

ZIP CODE 92126
7708★Lunos Myrl 271-1636
7709 Garcilazo Alex 566-1130
7716 Daly James K 578-4379
7717 Armstrong Ralph N @ 271-8688
7724 Vacant
7725 Greenberg Henry E @ 566-5765
7732 Clay Robt D @ 271-6686
7733 Ginther Gayle J @ 566-7962
7740 Mc Cardle Michl B 566-0085
7741★Vitale Piertro @ 578-8637
7748 Sardina Kath Mrs @
7749 Horton Leonard Jr @ 566-1370
7756 Scholl Harold T @ 566-3309
7757 Sauls Ruth L Mrs @ 271-6612
7764 Steckbauer John E @ 578-4293
7765 Cowan C James @ 566-6735
7772 Mohammadzadeh Abbas 578-7711
7773 Lambert Geri Mrs
7781 Graber Richd P @ 566-0074
BURLINGTON WAY INTERSECTS

657
BENDIX ST —FROM 8280 RONSON RD NORTH

ZIP CODE 92111

643
BENGAL CT —FROM 10643 MONTEGO DR NORTH

ZIP CODE 92124
5411 Minkler Randy V @ 292-7572
5412 Nagypal Bela @ 279-6871
5423 Ott Wm C @ 565-8067
5426★Spadoni Gerald @ 277-5110
5435★Sweat Locklyns @
5440 Harr Larry E @ 292-9925
5447★Morley Bradford C 569-8188
5454★Del Gado G A @
5459 Daghy Joseph @
5468 Griswold Anthony R @ 279-3859
5471 Curtis R E @ 279-6503
5482 Cole Roberta J Mrs @
5483 Colton Michl C @ 560-9839
5495★Scurr Ronald G 279-6199
5496 Carem C 279-1715

181
BENHURST AV —FROM 6300 FARLEY DR EAST

ZIP CODE 92122
4275 Higby Ronald E @ 452-1286
4285 Crow Howard @ 453-7838
4286 Le Pari Vivian Mrs @ 453-5186
4295 Andrus Fredk H 453-8146
4296★Lord Lynda L 453-0601
4304 Doumas Speros A @ 453-0471
COZZENS ST BEGINS
4315 Solsson Tina Mrs @
4318 Baddour John D @ 453-5853
4327 No Return
4332 Horn Elton W @
4339 Chase Dana C @ 453-7546
4346 Layton Richd W @ 453-3990
4351 Maddux Robt E Rev @ 455-6417
4360 Raines Robt B @ 560-7750
4363 Marcone Pat J @ 453-4890
4375 No Return
4376 Williams G W @ 452-7639
4387 David Harold 453-2276
4390 Sousa Manuel M @ 453-5808
4397 Ekno Harry R @ 453-2966
4407 Graner Carl E @ 453-8962

TP | Adjoining | Source
- | ✓ | R. L. Polk & Co.

SAMPSON ST 1980

SALMON ST—Contd
3298★Elwood Chris

208
SALTA PL —FROM 5100 CHOLLAS PARKWAY NORTH

ZIP CODE 92105
3302 Banda Joaquin C @ 282-1255
3303 Bultez Louis R @ 283-5206
3312 Kozak Edw P @ 283-4076
3315 Oliver Albert R @ 282-3315
3322 Collet Thos J @ 284-3922
3325 Gessner Andrew M @ 284-5287

271
SALUDA AV —FROM 8380 JADE COAST DR NORTH

ZIP CODE 92126
10150 Burgsteiner Gladys @ 271-4874
10151 Nesseler Lonnie L @ 566-9539
10158 Pardenbary Harold G
10159★Gallagher Kim 566-3223
10166★Utz B J 578-6202
10167 Deep John @ 271-4987
10172 Mc Neil Claude @ 271-1723
10175 Vacant
10180 Reza M Steve @ 578-0372
10183 Dominguez Adolfo @ 271-0364
10190 Vacant
10191 Vacant
10204★Crites Gregory P 566-0956
10205★Russell Conley E
10210 Koenig Julia Mrs @ 566-6136
10211 Merrill Wm W @
10216 Weakland Barbara Mrs 566-8534
10217★Santiago Marino @ 271-1373
10222★Boemker Robt @ 578-1239
10223 Vale Cruz Ruben P 271-4726
10228 Martinez David @
10229★Bremser Steve 578-5668
10234 Tooman Kathaleen @ 271-4098
10235 Owen Gerald A @ 271-4630
10240 Pettiford Eliz @
10241 Bugera Ernest @
10246 Cox Darold D 566-5868
10247 No Return
10252★Shiels Hugh 271-6462
10253 Mc Pherson Sandy @ 271-5229
10258★Hollenbeck H Kenneth 566-4148
10259 No Return
10264★Summerfield Malinda
10265 Sada Donald E @ 271-4610
10270 Wimberly Thos M @ 566-4318
10271 Mc Ginnis Geo R
10276 Ulit Antonio D
10277★Stark Rodney L @ 578-3214
10282 Rynders John W 578-6723
10283 Dasaro Miles V @
10288 Hollenbeck Jack W @ 271-4588
10289 Hornberger Dorothy E Mrs @ 271-6291
10294 Vogeler Virgil L @ 271-7320
10295★Lau Charles @ 271-1398

189
SAMOSET AV —FROM 4225 SAGINAW AV NORTHEAST

ZIP CODE 92117
4204 Shull H C
4212★Hanson S @
4215★Hindle R Y @
4220 Thurman Richd L @ 273-8925
4225 Evans James H @ 273-0841
4228★Griswold Jeffery L
4235 Perez Marciano @ 270-8428
4236 No Return
4244 Wilber Charles H 276-1882
4245 Martinez Cipriano @ 273-6257
4255 No Return
4260 Manougian Horan M @
4265 Edwards Judith @
4268 Kraska Sally @
4275 Kitting Walter L @ 274-7823
4276★Simmons Wm 274-7109
4285 Fortier E Russell
4286 No Return
4304 Hogue Robt L @ 273-2223
4311 Mitchel I J
4314 Smick Donald C @ 273-9379
4324 Allen Carol E Mrs 274-3897
4325 Roche Robt J @
4334 Mosby Dan @ 276-9718
4335 Cihak Rudolph J Jr @ 276-1309
4344 Brammell Ellinor S Mrs @ 273-2955
4345 Porter Frank L @
4354 Bange E 270-3749
4355 Occhipinti Carl G @ 273-1884
4364 Cantrell Ronald K @
4365 Garber Bernice L Mrs @ 274-1685
4374★Thumb Guy T @ 275-2472
KLEEFELD AV INTERSECTS
4403 Ruhnow Holly R @
4404 No Return
4414 Ashby Joseph E Jr @ 274-1536
4415 Magill John Jr 272-4004
4424 Andrews B Joy @ 274-2534
4425 Steinmetz Harry L 270-0868

663
SAMPLE ST —FROM TAUSSIG ST WEST TO SALMON ST

ZIP CODE 92124
TAUSSIG ST INTERSECTS
10211 Perry Jim C 278-5973
10212★Gray Jacques D 278-9148
10213 Flesher James D 278-2247
10214★Williams Nathaniel 569-1352
10215 Stoddard Charles M Jr 292-0540
10216 De Mosa Rodney R
10217 Batt Steven G 292-7797
10218 Fox Bobbie W 292-1135
10231 Totterer Steph L 279-9916
10232 Redmon James T 560-6744
10233★Trujillo Ruperto 560-9292
10234 Basile Paul D 560-6776
10235 Ruf Clifford J
10236★Montalbo Lee R
10237 Hidalgo Everiste T 292-8538
10238 Scott John L 560-1450
10251 Apida Robt J 560-6083
10252 Wright Wm L R 277-4592
10253 Turner Robt L
10254★Sinclair Sam M 569-1702
10255 Laguitan Sam O 560-8699
10256 Nelsen Gordon N P
10257★Baranko Wm R
10258★Austin Donald D 565-7618
10271 Peshek Gary E
10272 Mateos Rolando 277-6903
10273 O'Donnell Tom 561-4726
10274★Skaggs Kenneth D 569-0554
10275 Whitson Wm C 278-4578
10276 Larsen Richd A 279-4917
10277 Holder James E
10278★Brough Bud D 569-8440
10291★Curley Robert C 571-8403
10292★Bouth John W 277-1762
10293 Lummus Johnny L 292-5537
10294★Mayo Frank B Jr
10295★Wenzlaff George H
10296 Striegel Wm L
10297 Crawford John E
10298★Fear Lewie A
SALMON ST INTERSECTS

318
SAMPSON ST —FROM 250 S 28TH ST SOUTHWEST

ZIP CODE 92113
202 King Pauline Mrs
206 Foster Willie Mrs
222 Palomina Lupe Mrs 235-4017
238 Mitchell Alberta Mrs 239-6961
CLAY AV BEGINS
241 Vacant
244 Samyn Alphons @ 233-5758
FRANKLIN AV INTERSECTS
314 Burton Paul @ 323-1340
315 School Of Spiritual-Scientific Non-Med Midwifery priv sch 235-6984
Mister Midwife natural homebirth 235-6984
★Casserley Norman 235-6984
319 Vacant
323 Flores John @ 234-4209
324 Comptom Joseph
325 Castillo Dimas 239-2589
328 Apartments
1★Morgan Kyle
2 Price Woodrow 232-4693
3★Bell Leonard
339 Padilla Jose R 232-1506
OCEAN VIEW BLVD INTERSECTS
412 Whitmore Apartments 232-2856
414 Golden Unicorn Salon beauty shop 233-3032
414½★Avalos Maria Mrs 235-6049
415 Munoz Virginia Mrs 231-2919
416★Boone Leland
418 Vacant
419 Medrano Juan C
420 Gastelum Elvira
431 Sandoval Pedro @ 235-0597
441 Cardenas Felipe @ 233-0751

18
HARRISON AV INTERSECTS
512 Vacant
514 Cuevas Thos
515 Thomas Leonia C Mrs @ 239-2792
516 Cuevas Alphonso @ 233-4564
518 Jimenez Miguel 233-0531
520 Esparza Cruz Mrs 232-7288
522★Alixo Jose 232-0656
528 Vacant
529 Galindo Hilaria G Mrs 238-0634
534★Hurtado Catalina @ 235-6910
546 Martin's Grocery 232-0584
IRVING AV INTERSECTS
603 Vacant
609 Turner Curtis 232-9361
611 Gladney Florence Mrs
615 Zoch Robt 233-4044
619 Vacant
621★Rabadon Martha
623★Corona Isidoro M
625 Vacant
627 Clayton Harry 231-5824
629 Garrison Beaumont D @ 233-0642
635★Sterling Geo @ 236-0771
644 Cal Air Conditioning & Refrigeration 234-9383
Garay Joses @ 232-3307
645 Gamez Jose 235-0284
JULIAN AV INTERSECTS
704 Hollman Bernard M @ 234-0429
717 No Return
721 Parra Armando @ 235-8115
724 No Return
740 No Return

16
KEARNEY AV INTERSECTS
INTERSTATE 5 CROSSES
LOGAN AV INTERSECTS
906 Correa Ramon F
908 Flores Amador
910 Alvarez Marciano 234-6869
911 Martinez Lucy V Mrs 231-3867
912 Alvarez Jose 234-0716
914 Apartments
1 Garcia Ricardo E 235-8790
2 Vacant
3★Guzman Jose 234-2672
4★Miranda Juan
5★Contreras Mario 233-1181
924 La Popular Tortilleria (FCTY)
930 La Popular Tortilleria (Annex)
934 Vacant
938 Vacant
942 Vacant
NATIONAL AV INTERSECTS
1016 Gonzalez Alexander 232-9471
1018 Douglas Vivian Mrs 233-8347
1020 Aguilar Francisco
1022 Bonilla Guadalupe Mrs
1027 Gonzalez Roberto 239-9598
1037 Quintero Dolores Mrs 233-9770
1043 No Return
NEWTON AV INTERSECTS
MAIN ST INTERSECTS

905
HARBOR DR INTERSECTS
1304 Volker Wm & Co Inc fl covering & home furn 239-9205
AT&SF RY CROSSES
1335 S D G & E (Transformers)
1347 Atchison Topeka & Santa Fe Railway (Frt Ofc) 232-0197
Ace High Transportation Inc frt trucking 234-4178
G & H Transportation Inc trucking & freight forwarders 234-4161
1348 San Diego Gas & Electric Co (Silver Gate Station) power sta
BAY FRONT ST INTERSECTS
BELT ST INTERSECTS
1401 National Petroleum Inc 239-0256
E BELT ST INTERSECTS
ft Southwest Marine shipbldrs 238-1000

68
SAN ALBERTO WAY —FROM 5200 TRINIDAD WAY NORTH

ZIP CODE 92114
311 Phillips Otha L @ 263-3923
312 Blackledge Saundra @
317 Taitano Lounette Mrs @ 263-4936
320 Gray Maurice @ 264-4223
323 Peace Helen M Mrs @ 262-7239
327 Shine Bill
332 Morales Miguel @ 262-6171
335 Gay Millard F @ 263-1751
341 Simpson Maxie
342 Johnson Eddie L @ 263-3519
347 Cox Evoa Mrs @
403 Woods Louis G @ 262-1458
404 Thomas Gwendolyn M Mrs @ 262-7675
411 Romero Hilbert M @
412 Nunley John O @ 264-3734
419 Burris Ross C @ 262-8917
420 Grant Carrie Mrs @ 264-7736
427 Arreola Julio M @ 262-6458
428 Stewart Bettye J Mrs @ 264-1961
433 De Leon Thomas @ 262-2547
436 Muckelroy Ruby R Mrs @
439 Jackson Bertha Mrs @ 264-3282
444 Dorrough Willie D @ 262-8931

373
SAN ANSELMO DR —FROM 4900 SAN JOAQUIN DR EAST

ZIP CODE 92109
2507 Williams Barbara
2514 Green Geo @
2515 Huetter Bernard R Jr @ 273-4619
2522 Lang Kenneth T @ 272-0302
2525 Casutt Max @ 272-0896
2530 Wixey John F Illustrator coml artist 270-3585
Wixey John F @ 274-5835
2535 Kramer Joseph R @ 274-5646
2538★Downs David L 274-0798
2543★Ballard James S 273-5885
2546 White Ray H @ 274-8478
2554 Buchanan David L 272-9378
2559 Dose Curtis R @ 270-7728
2562 Brentano Thos F @ 272-4954
PACIFICA DR INTERSECTS

39
SAN ANTONIO AV —FROM 1 EAST OF 300 ROSECRANS ST NORTH

ZIP CODE 92106
302★Porter Wayne R 223-7324
305 Small Rita H Mrs @ 222-9200
310★Rubio Henry H @ 224-1929
310½★Hernadez Fernando 224-1639
311 La Villa Plaza Apts
Soeberg Wm F
315 Earnshaw Evelyn R Mrs 224-7567
316 Beatty Dee 224-9197
318 Reed Josephine S Mrs 222-9211
319 Duncan James O 224-0869
320 No Return
325 Brown Lois Mrs @ 223-8751
326 Springstead Wallace @ 223-1337
333 Johnson Earl W @
345 Morgan Kent 222-9264
KELLOGG ST INTERSECTS
352 Somes Fred 224-4556
353 Vista Del Bahia apts
1 Toomey Bernard C
2★Barry E J
3 Thompson Earl F @ 223-3228
4 Rogwold Lucille B Mrs @ 222-8365
5 Cannon Curtis W @ 224-9945
6 Winston B B 223-5980
7 Jessop Joseph E Jr 223-6476
8 No Return
9 Steen Noreen A Mrs @ 224-3846
STREET CONTINUED
362 La Playa Townhouse apts 223-8513
1★Davidson George C 224-9576
2★Heilbron Howard P 224-1438
3 Cotle
4★Royle Vesta Mrs 223-0582
5★Duncan 223-9525
365 Boney
367 Terraform Inc 223-4007
369 Kelly Jack A @ 223-7810
371 Welsh Robert J @ 224-0670
373 Mc Millan T M
375★Bruyea Paul R
379 Spicer Raymond D Jr @ 222-9079
385 No Return
390 Park La Playa Apartments 222-7242
1 Dunham Robt C 225-1342
2★Mathews B C 223-5939
3 Vacant
4 Peck H Conrad 222-7242
5 Hills Richd E 222-3891
6 Muir Fredk W 223-7358
7 No Return
8 Vacant
11 Albrecht Emile J Mrs 223-1444
12 No Return
13 Brenneman Beatrice E Mrs 223-0110
14 Duncan Robt B 224-4774
15 Stefanson Dolly J Mrs @ 224-1372
16 Ackerman Carl J Jr 223-6940
LAWRENCE ST INTERSECTS
404 La Playa Condominiums
404a Byrom Geo H @ 222-0947
404b Wilhoit John W Jr @ 223-1203
404c Henzler John D @ 222-4818
404d Dicker Robt 224-0880
404e Arenson
404f Neyenesch Fred F @ 225-8772
404g Vanier Kieran F @ 224-0617
404h Benjamin Burton J
404i Reeves Peter C
404j Kahn Zila
404k Roshek John J 222-6073
404l Nelson Geo A @ 222-5304
404m Guymon J Irons 223-6007
404n Hage
4040 Stover Wm W 223-8972
405 Boehm Wm R 224-6927
429★Huster Brian
430 Apartments
1 Mac Donald Fay Mrs 222-9568

TEL (714) 563-4060

BAY FRONT ST 1975

ROSECRANS AT SPURLOCK AV 225-9373
Factory authorized sales, service & parts
ET & LINOLEUM CO. INC. National City

273

BATAVIA RD —FROM 11200 BERRYKNOLL ST EAST

ZIP CODE 92126
7752 Guyllot Denis M @ 566-7748
7764 Vacant
7776★Kinman Dennis R 566-0033
7788 Brumbaugh Steven @ 271-5544
7798 Soda Darlene Mrs 271-6260

428

BATES ST —FROM WEST @F 3800 58TH ST EAST

ZIP CODE 92115
5705 Apartments
1 Hopkins Kath Mrs 287-2674
2 Toledo Judith A Mrs 583-2387
3★Burke Merrill S 287-0655
4★Sheibley Edw 582-8711
5★Boynton Michl V 287-9049
6 Bond Robt E
7★Wheaton James
8 Payne Gary S 582-5046
9★Lettmer James
10★Poschman Barbara 286-4766
11 Vacant
12★Mays Jill M Mrs
5706 Apartments
1 Vacant
2★Hernandez Raul E
3★Keizerman Mikle 286-9946
4★Kemmerle Howard J 287-9926
5 Beavers Vivian Mrs 286-7672
6★Beans Karen Mrs 287-6001
7★Young K
8 No Return
9 No Return
10 Knight Joyce Mrs 583-5953
11 Vacant
12 Vacant
5714 Apartments
1★Jacovus Carlton J
2 Widdekind James
3 Robinson June Mrs
4 Vacant
5 Greer Jennie M Mrs
6 Richard Paul L
7 Vacant
8★Tafoya Agapito 287-2473
9★Bann Wm 287-1806
10 Ferracci S 287-1029
11★Shaw Judy G Mrs 287-4489
12★Pusey M Lawrence 287-5748
5715 Apartments
1★Mc Arthur Yancy 286-3974
2★Gardner Phyllis Mrs
3★Guz Roman 286-8826
4 Elkins Larry E 287-3078
5★Reading Joanne K 583-4198
6★Murphy Lisa A Mrs
7★Reynolds Patsy Mrs
8★Mc Elwee Jan
9 O'Brian Charles T
10 Vacant
11 Vacant
12★Molina Robt D Jr 287-3195
5721 Apartments
1★Bumgardner Florence E 286-8893
2★Pederson Larry J
3★Bonner Wilbert E
4★Snypes Kathy
5722 Apartments
1 Vacant (Apts 1-4)
5★French Michl W 287-4097
6★Loyd Helen A
7 Vacant
8 Vacant
9 Ayers Charles N 287-8123
10★Levan Arlene
11 Vacant
12 Vacant
5723 Apartments
1★Cowles Ivan R 287-1828
2 Vacant
3 Vacant
4★Salpadimas Geo 287-1562
5727 Apartments
1★Shannon Charles Jr 286-3806
2★Love Sandra A
3 Vacant
4 Lambert Luz Mrs 287-2608
5728 Apartments
1★Rosier Robt A 287-8453
2 Pace Martha Mrs
3★Paulredin Paul
4 Vacant
5 Jones Joyce H Mrs 583-2382
6 Bates B W 286-9835
7 Vacant
8 Vacant
9 Stockton Jean A Mrs 286-4766
10 Ortiz Henry 583-4384
11 Vacant
12 Mc Nutt Richd

5729 Apartments
1★Ernst Douglas J 286-9260
2 Trusott T E
3 Wilt Terry 286-1617
4 Vacant
5731 Apartments
1 Piazza Alma Mrs
2★Sousa Manuel 286-1304
3 No Return
4★Rascop Thos W
5734 Apartments
1 Ruxer Candy E Mrs 286-2139
2 Monal Jose 287-1635
3★Gordon Homer L
4 De Locht John L 583-5662
5 Williams Florence T 583-1969
6★Palmer Michl J
7★Mason Sonja Mrs
8★Herridge Luther G
9★Ventura Enrique 286-8050
10★Vierra Vincent G 287-3545
11★Lumbres Eliseo L 286-3799
12★Remz L John 286-3213
5737 Apartments
1 Vacant
2★Byrnes Colleen Mrs
3★Hollingsworth Darrell R 286-7897
4 Detry Wm 287-6048
5738 Apartments
1 Hill Maureen R
2★Stephenson Joseph G
3★Olds G
4★Giordano Sergio
5739 Apartments
1★Hughes Kathleen
2★Kamrath Steven L 287-7206
3 Vacant
4 Ricanor Miguel
5740 Apartments
1 Wightman John S
2 Sepulveda Joy 286-4837
3 Sebastian Marciano 582-0941
4★Dorsey James C 286-7641
5741 Apartments
1 Bruce Alice R Mrs 583-6963
2★Levin Roberta 287-5826
3 Sanford Charles P 287-7728
4 No Return
5742 Apartments
1★Covert Charles H
2 Butts Darryl
3 Hastings Gary C
4★Stambaugh Craig N 582-3162
5743 Apartments
1 No Return
2★Georgatos Arsenios
3 Coffey June L 287-3180
4 Jacalone Linda R Mrs 286-2578
5744 Apartments
1★Ventura Eloy
2 Hill Kathleen M Mrs 583-2950
3 Guernsey David M 583-4924
4 Herren Sylvia 287-0687
5745 Apartments
1 Mc Whorter Wm G 583-1167
2 Morris Winifred F Mrs
3★Berzon Wayne
4★Mc Grath Margt Mrs
5746 Apartments
1★Castillo Manuel R
2★Kennedy Minnie Mrs 582-3136
3 Grimard Thelma Mrs 287-0643
4 Reynolds Albert 287-6864
5747 Apartments
1 Deaton C Steve 582-4326
2 No Return
3★Garner Bill J 286-8291
4 Jones Joyce 287-7639
5748 Belleview South apts 583-2232
1 Belleview South (Ofc)
2 Belleview South (Model Apt)
3★Womack E R 287-8365
4★Bobo James B 287-9664
5749 Apartments
1 Gallardo Michl A 286-7908
2 Dantz Robt L
3★Casma H
4 Zienkewicz Frank P 287-4137
58TH ST INTERSECTS

349

BATISTA ST —FROM 3800 ARVERNE ST EAST

ZIP CODE 92111
6903 Allen Lyndall D @ 278-4902
6919 Bates Ida B Mrs @
6924 Gibbons Donald R @ 279-7778
6935 Jenkins Thos A @ 292-9259
6951★Wyttenbach Lillian
6958 Rhodes W L 277-2176
6967 Schoettmer Robt G @ 277-8767
6976 Bradford Wm H Sr 279-2108
6979 Staats Michl C 277-3795
6988 Capelotti Michl E @ 277-4085
6991 Baumgarten Robt H @ 277-7745
6998 Balistreri Salvatore @ 279-3840
BROADLAWN ST INTERSECTS
7003 Distefan Albert M @ 279-2772
7015 Vieira Celeste @ 277-4587
7027★Jacobs Karl E @ 279-7899
7039 Hughes Lois E Mrs @ 279-9686
7051 Reitmeyer Ronald R @ 278-0126
7063 Wright Donald E @
7075 Vacant
BIDDLE ST INTERSECTS
7123 Vacant
7124 Walden James A @ 277-7654
7131 Saraceno Albert @ 277-7597
7132 Empey Boyd J @ 277-4207
7139 Larson Robt A @ 277-2937
7140 Garner Herbert H @ 277-0847
7147 Allen Floyd E @
7148 Arnette David E @ 278-0783
7155 Schmidt Martha J Mrs @ 277-4164
7156 Huff Tilford K @ 277-6916
7163★Dunn Glenn A @ 279-8491
7164 Pickard Donald E @ 278-8172
7171 Yost Frank L @ 298-4681
7172 Hubbard Kenneth R 277-9046
7179 Mc Clure Harold L @ 277-1422
7180 Vacant
7187 Hammond Harry F @ 277-5079
7188 Linden Paul A Jr @ 277-2187
HATTON ST INTERSECTS

63

ARMSTRONG ST INTERSECTS
7402 Glithero Phyllis O Mrs @ 277-1421
7410★Hayes Gary
7416 No Return
7422 Nebeker Delbert @ 277-0471
7423 Dunaway W Frank @ 279-7006
7429 Greer Jack @
7430 Festa Alice M Mrs @ 279-5918
7436 Dunigan A C @ 279-8434
7437 Wood Robt H
7442 Herman Carl
7443 Diaz Anthony @ 277-6310
7448 Christopher Henry @ 277-0460
7449 Vacant
7454 Adams Myrl L @ 279-5794
7455 Santiago Danl @ 277-5531
7460★Johnson Darrell @ 278-5802
7461 Asaro Mateo @
7468 Smith Gerald V @ 277-7300
7469★Vollrath Harry @ 279-2117
7474 Vacant
7475 Barker Geo D 565-7548

667

BAXTER CT —FROM 5190 BAXTER ST WEST IN A SEMI-CIRCLE

ZIP CODE 92117
4633★Saliga T V 270-7662
4636★Poynor Larry R 270-4412
4648 Dominquez Carmen @
4655 Hayhurst Robt E @ 273-5894
4666 Thies Fredk @ 273-9507
4677 Ishihara Mitsuo 273-7371
4684 Weber Herbert E C @ 274-4907

667

BAXTER ST —FROM 4800 CONRAD DR NORTH

ZIP CODE 92117
5010 De Bolt Della F Mrs @ 274-2880
5011 Cox Phyllis N Mrs @ 273-4367
5018 Jue Henry @ 273-4535
5025 Gonzalez Hector @ 276-1894
5026 Hines Donald W @ 273-8104
5034 Romero Wilfred prod dlr @
5035★Oosdyke Patricia L 270-1225
5042 Perez Aurora Mrs
5043★Kruse Linda Mrs 272-7783
5050 Parker Ernest R @ 276-2622
5056 Bagwell James C @ 274-4182
APPLETON ST INTERSECTS
5061 Gaddy Lloyd A @
5062 Mc Crorie Cecil @ 272-4248
5068 Rice Alton L @ 276-8678
5069 Hoover Ruth M Mrs @ 273-7759
5074 Buckman Ernest A @ 273-0787
5075 Bakos Andre J @ 272-4459
ABERDEEN ST INTERSECTS
BRILLO ST INTERSECTS
5080 Hawhee Gordon W @ 276-3929
5081 Fischer Ronald F @
5086 Wagner Wayne M @ 273-3550
5087 Miller Raymond C @ 274-5497
5094 Sunset Carpet Service cln 272-5674
Pasquarella Fred A 272-5674
5095★Barnes Douglas G 272-5085
LEHRER DR INTERSECTS
5102★Tayrien Mark W 272-5085
5111 Simonds Virgil D @ 273-1613
5112 Hewey Paul L @
5120 Jones Saml N @ 273-6125
5121 Stagner Coy S @ 273-6123
FIRESTONE ST INTERSECTS
5131 Torzillo David G @ 273-1760
5141 Cardona Jean Mrs @
5144 Olson Geo W @ 274-8577
5150 Nelson Garth C @ 274-9013
5151 Vacant
BAXTER CT INTERSECTS
5156 Peterson John J @ 274-9847
5159 La Rocca Bartholomew 276-4657
5165 Sanott John L @
5170 Schuler Wm J @ 274-6541
5175 Stankovics Gertrude A Mrs @ 273-4495
5188 Prazmark James J @ 276-0740
5189 Farhat Jerry L @ 276-2581
5198 Balistreri Andrew @ 274-8970

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BAY FRONT ST —FROM 1400 CROSBY ST SOUTHEAST

ZIP CODE 92113
1860 Vacant
1995 Westgate Terminal Inc coml fishermn 232-7311
Sun Harbor Industries canners 232-7311
State Health Dept (Cannery Inspection) 236-7213

1

BAY VIEW CT —FROM 1859 LYNDON RD SOUTH

ZIP CODE 92103
4031 Smith Geo H 295-5645
4047 Van Norman Allen @ 296-6451

38

BAYARD ST —FROM 1 SOUTH OF 900 PACIFIC BEACH DR NORTH

ZIP CODE 92109
4005 Scripps Thos O @ 272-0650
4025 Criscola Anthony P @ 272-0610
PACIFIC BEACH DR INTERSECTS
4104 Bishop Janie Mrs @
4110 Beckett Herbert L @ 488-8120
4120 Freeman Richd R @ 488-4696
4121 Tichenor Alice L Mrs @ 272-0675
4127★Tammen B F 272-1436
4138 Tellouis Margie B Mrs @ 488-2238
OLIVER AV INTERSECTS
4204 Howard W L 272-6824
4205 Gelardi Charles W @ 272-2508
4211 Laird Roy M
4212 Alderson John A @ 488-6207
4217★Earle Ken 270-5344
4218 Berger Robt A @
4225★Lloyd Michl D 272-8503
4226 Dunbar Palmer H @ 488-4122
4236 Whitman Jack H @ 488-5635
4239 Sugita Sam I gdnr @ 272-2365
4242 Swift Russell W @
REED ST INTERSECTS
4277 Graham John H 270-0820
4285 Vacant
4287 Sylvester Marie Mrs
4288★Anderson Lee W
THOMAS AV INTERSECTS
4310★Klink Michl C 488-8563
4316 Christensen Frank @
4340 Denton Ruth Mrs @ 488-6968
4348 Hair Inc beauty salon 488-3194

8

GRAND AV INTERSECTS
4406 Drake Realty Co 488-2886
4408 El Dorado Engineers Inc civil eng & land surveyors 270-1623
4410 Hollenbeck-Gibson Agency emp agcy 488-1043
4412 Abra Employment Agency 488-0505
4414 Anchor Travel Agency 270-6080
4425 Vacant
4435 Schmitz Mildred B 272-1792
4441 Gavett Emily R Mrs 272-2552
HORNBLEND ST INTERSECTS
GARNET ST INTERSECTS
FELSPAR ST INTERSECTS
4617★Nolan Patk 588-5421
4627 Kilgore Mary M Mrs 488-5136
4629★Holz Evan J 488-4863
4630 Miller Len 488-0285
4631 Niehoff Cath A 488-4216
4633 Barger Jeanne Mrs 488-3217
4635★Beal Barbara 488-5343
4637 Vacant
4639★Hallstrom Nils
EMERALD ST INTERSECTS
4650★Rauschl Robin 488-9141
4652 Vacant
4654★Thalken A 488-5163
4655★Veltmann J W Mrs 488-2609
4656 Plumer Sarah Mrs
4657★Libertine John 488-6810
4659 Manvell Leslie Mrs

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

BELT ST E 1975

BELLEVUE AV (LA J)—Contd
5705 Castillo Fred
5711★De Maio Christopher 459-6985
5712 Harmeling John L ◎
5720 Burriesci Robt W ◎ 454-1556
5721 Broedling Timothy J ◎ 454-6219
5726★Juirblis Alex A 459-8524
5727 Frankowski Joseph ◎
5731 Copeland Dempsey D ◎ 454-4882
5732 Brissenden Paul ◎ 459-1706
5737 Delafield Geo S ◎ 459-6331
5740 Steinfeld Alex P ◎ 454-0887
5744★Granger Clive J 459-1336
5747 Telford Horton R ◎ 459-7777
5752 Harding Isabel S Mrs ◎
5755 Palevsky Lucia R Mrs ◎ 459-5407
5761 Macurda Margt D Mrs ◎ 454-0025
5762 Goodnough Ruth G Mrs ◎ 454-2850
5769 Tyler Wilfred L ◎ 454-7213
5770 Copeon Harry D ◎ 454-2925
5776 Sabados Martha A ◎ 454-7475
5777 No Return
5783 Sanders David S ◎ 459-2586
5784 Purdie Joe E 459-2745
5787★Mc Arthur Colin ◎ 459-5388
5790 Dumesrel Mary M Mrs ◎ 454-5738
5791 Kiely James P ◎ 459-5072
5794 White Leo J ◎ 459-2864
5795 Brantley Robt H ◎ 454-4483
5798 Mc Cosh Richd E ◎ 459-6418

93
FOLSOM DR BEGINS
CAMINO DE LA COSTA ENDS
5819 Carroll Velma M Mrs ◎ 454-1508
5820 Voegtle Richd B ◎ 459-8080
5827 Hatch La Donna Mrs ◎ 454-0227
5828 Mc Cullah Chris
5835 Nau Douglas E ◎ 454-6557
5836 Graeber John J ◎ 459-3147
5903 Weigle Edw H ◎ 454-4082
5906 Boaz Geo L ◎ 459-0323
5912 Harris Ray ◎
5915 Binder Patricia D Mrs 459-4546
5920 Jones D N Mrs ◎ 454-6296
5921 Lee Peter T
5930 Benton Philip H ◎ 459-2247
5931 Mc Gilvery Lawrence 454-4443
5944 Moeller James E ◎ 459-1303
5959 Monroe Kath J Mrs ◎ 454-4155
LA CANADA INTERSECTS
6001 Edwards Arth G Jr ◎ 459-1053
6008 Matson Richd G Rev 459-8039
6009★Guillen Claudio 454-8294
6017 Doyle Robt J ◎ 454-2386
6018 Lehman Robt E 454-4983
6021 Meyer Charles H
6030 Cooke Florence E ◎ 454-1008
6036★Moreno Manuel A ◎ 459-3980
6046 Brunet Emile J Jr ◎ 454-6791
FOLSOM DR ENDS
6080 Paul Roy W ◎ 459-4942
6085 Stirnkorb Betty M 454-6965
6091 Vacant
6097 Mc Carthy John A ◎ 454-0619
WAVERLY AV INTERSECTS

211
BELLEVUE PL (LA JOLLA)—FROM 5400 BELLEVUE AV EAST

ZIP CODE 92037
751 Miller Francis ◎ 488-7848
751a Mowry Jeff 488-0958
759 No Return
767★Simonds A F ◎ 488-3497
777 Bent Jane B Mrs ◎ 488-2027
785 Blair Ramon R ◎ 488-5968
795 White Roger 488-9073

120
BELLINGHAM AV —FROM 3650 CHEROKEE AV EAST

ZIP CODE 92104
3675 Marshall Thos R ◎
3676★O'Dean David A 281-0467
3679 Mc Cuan Gene W 282-8009
3685 Vacant
3696 Reddington James

73
BELLOC CT —FROM 5182 EDGEWOOD RD EAST

ZIP CODE 92109
2106 Wavra Joseph J ◎ 270-0756
2118 No Return
2119 Chamberlain Stanley B ◎ 274-2844
2132 Milliken James R ◎ 273-7849
2133 Gray Thos B ◎ 273-7008
2144 Hall Dennis J ◎ 272-1385
2145 Schmitt R Larry 273-7096
2156 Geibel Donald ◎ 274-5249
2157 Smith Geo W ◎ 273-0256
2168 Gallagher Edw W 274-1409
2169 Hubbard Ronald D ◎ 270-4975
2180 Porter John W ◎ 272-0273
2181 Fiel Alan ◎ 273-7771
2192 Baldwin Raymond R ◎ 273-6212
2193 Larson A Wm ◎ 270-0493

566
BELLVALE AV —FROM 4500 DERRICK DR EAST

ZIP CODE 92117
5101 Pentz Edwin L ◎ 277-1349
5102 Zwahlen Paul E Jr ◎
5105 Tocco Vito ◎ 278-8133
5106 Jones Edw P ◎
5109 No Return
5110 Hoffman Clarence W ◎ 560-8898
5113 Erwin Ken ◎ 279-3714
5114 White Kenneth H ◎ 565-1876
5117 Drob Alex P 278-8068
5118 Tarrant Bartines B ◎ 560-1211
5121 Polletta Guerino ◎ 279-0104
5122 Antoun Zoher S 565-2806
5125 Ehrhart Geo E ◎ 277-6072
5126 Fenwick Dale H ◎ 278-8508
5129 Kaminski Frances A Mrs 278-6235
5130 Hansen Paul R ◎ 278-8626
5133 No Return
5134 Lee Lawrence K ◎ 278-7354
5137 Babbel Robt N ◎ 278-8776
5138 Shultz Richd S 565-1868
5141 Lane Richd J ◎ 279-4636
5142 D'Leon Pero ◎
5145 Rowe Richd T ◎ 277-0284
5146 Garsow Michl 292-9604
5149 Koll Robt J ◎ 279-7749
5150 Simental Gregory ◎ 278-7468
5153 Marzec Willy ◎ 277-8549
5154 Dettore Leo T ◎ 279-7898
5157★Stone Robt L 565-2231
5158 Charles Norris A ◎ 277-3462
5161 Brower Linda 560-1697
5162★Oliver Donald R 278-3139
5165 Odom James T
5166 Conway Charles E Jr ◎ 279-2125
5170 Matchke Jerome L ◎ 279-1990
5171 Finley Wm O ◎ 277-8577
5174 Schindewolf Richd ◎ 277-0484
5177 Vest Charles S ◎ 278-7389

230
BELMONT AV —FROM 4742 E MOUNTAIN VIEW DR EAST

ZIP CODE 92116
3801 Cooper Clyde A ◎ 281-2680
3811 Adamson Mildred E Mrs ◎
3812 Vacant
3819 Giesing Philip R 284-2407
3820 Morefield W Neil ◎ 281-5833
3828 Kinninger Allan J ◎ 282-9581
3829 Ham Earleen ◎ 282-7500
3832 Vacant
3839 Vacant
3844 Woodward E Paul ◎ 282-2636
3853 Howard Alice M 284-3205
3858 Ross Virginia H Mrs ◎ 281-7074
3861 Armstrong Frank L ◎ 283-3819
3866 Sund Warren L ◎ 281-3288
3867 Corby Elwood M ◎ 284-8039
3875★Clopton Paul 281-9056
3876 Kohrs Lewis P ◎ 281-0691

369
BELOIT AV —FROM 3900 BLK ARVERNE ST EAST

ZIP CODE 92111
6802 Keagy M Tess Mrs ◎ 278-6744
6805 Adams Norman A ◎ 279-3749
6826★Hutchins Robt 565-1450
6829★Ferguson Sandra ◎
6850 Jackson Hiram E Jr ◎ 277-3931
6853 Coley Jack R ◎
6874★Stitzie M C 560-5021
6877 Osborne Wm E ◎ 278-2315
6906 Ferguson Morris E ◎ 278-8960
6907 Stammich Clifford J ◎ 278-3242
6930 Lang Robt F
6931 Vacant
6954★Ainsworth Wm L ◎ 279-2252
6955 Standhope Clyde E
6975 Marcelo Gliceric ◎ 279-3919
6978★Trexel John E ◎ 277-7427

905
BELT ST E —FROM SOUTH OF CROSBY ST SOUTHEAST 1 WEST OF HARBOR DR

ZIP CODE 92113
DEWEY ST ENDS
SAMPSON ST INTERSECTS
2145 Kelco Co (Plant) chem mfrs 232-1011
2305 Delta Lines Inc comi trans line 234-8501
Shulman Air Freight 239-0815
2307 National Pump & Injector Sales & Serv Inc 232-0831
2315 Blue Fin Grill 239-9610
SICARD ST INTERSECTS
HARBOR DR INTERSECTS

905
BELT ST N —FROM 100 WEST F ST NORTH

ZIP CODE 92113
SAMPSON ST ENDS

395
BELVEDERE ST (LA JOLLA)—FROM 7050 NEPTUNE PL EAST

ZIP CODE 92037
NEPTUNE ST INTERSECTS
215 Morgenstern Herbert ◎ 454-4759
215½★Johnson Wayne
221 Russel Donald R ◎ 459-5382
226 Stitt R Dean ◎ 454-7808
VISTA DEL MAR ST INTERSECTS
304 Smith Leon F ◎ 454-5036
324 Hall Timothy C 459-6165
325 Laidlaw Ashton ◎ 454-2939
331 No Return
334 Moore Eliz D Mrs ◎ 454-1989
338 Van Slyke Paul ◎ 459-6228
340 Smith Fredk R ◎ 454-0204
341★Eckhart Walter ◎ 454-6283
351 Drake Margt P Mrs ◎ 459-5833
358 Wishart Harriet ◎ 454-6852
359 Atkins Jack M ◎ 454-6463
389 Duckworth Ruth B Mrs ◎ 454-1628
MONTE VISTA AV INTERSECTS
402 Walseth Harvey S ◎ 459-8840
405★Boyce Robt V ◎ 445-0674
407 Vacant
410 No Return
418 Stork Nancy S Mrs greeting cards ◎ 459-2786
421★Hyslop Charles P ◎ 454-5498
424 Ground Barbara D Mrs ◎ 454-7395
431 Campbell Leroy T ◎ 454-1530
439 Vacant
440 Crutchfield Beatrice T Mrs ◎ 454-1439
442 Crutchfield James F ◎ 459-9151
447 Sinclair Robt C ◎ 454-6576
460 Mattson Philip T Jr ◎ 454-8319
458 Sweet Horace L 454-0296
459 Deverick Allan A 459-2729
460 Stover Allan J 459-5622
461 Mirandon Charles A ◎ 459-5963
462 Pratt Dean 454-0689
464★Heitzman Hal 454-8073
469★Newsom Clerca C 454-8385
LA JOLLA BLVD INTERSECTS

569
BEN ST —FROM 7200 BEAGLE ST NORTH

ZIP CODE 92111
3501 Roosa Wm F ◎ 277-9686
3511 Pena Eug ◎
3512 Ellington Glenn R ◎ 278-6845
3521 Donnelly Robt F ◎
3522 White Edw F ◎ 278-0852
3531 Coath Robt L ◎ 277-9668
3532 Johnson Bonnie J Mrs ◎ 279-5806
3541 Kamerling Russell C ◎ 277-9746
3542 Ludlam Richd H ◎ 278-0409
3551 Varchol Donald G 277-5038
3552 Willey Max ◎
3561 Vacant
3562 Jackson Victor E ◎ 277-7169
3571 Vacant
3572 Poquette Vernon A ◎ 278-5674
3581★Davenport Gerald D
3582 Schmitten Marlin J ◎ 278-5566
3591 Casey John F ◎ 278-5060
3592 Frost Jack ◎ 279-5547
3613★Devan J Michl 277-0851
3614 Ortiz Martin L 560-8763
3624 Vacant
3633 Wendorf Vernon A ◎ 277-1598
3634★Zittel Henz 279-3411
3643 Arbaugh Trucking 278-4994
Arbaugh Robt W ◎ 278-4994
3644 Barrios Mary E Mrs
3653 Palmer Thos C ◎ 278-4480
3654 Miller Howard R ◎ 278-4016
3663 Frevert Bobby R ◎
3664 Stasny Edw J ◎ 277-3678
3673★Yogerst James A ◎
3674 Vacant
3683 Jenson Darrol E 277-9767
3684 Gordon James W ◎ 278-0850
3695 Manning Edgar W ◎ 277-2749
3696 Watson Pauline Mrs

363
ARMSTRONG ST INTERSECTS
3701 Floyd Albert T ◎ 277-7482
3702 Yasinski John ◎
3707 Eckert Orrin D ◎ 278-9287
3708 Maiers Edw B ◎ 277-1027
3714 Tincup Cathleen Mrs
3715 Perry Sally A Mrs ◎ 277-6421
3720 Ribas Pete P ◎
3721 Blue Douglas ◎ 278-1017
3727 Mosley James A ◎
3730 Wray Francis M ◎ 277-8136
3733 Mason John P ◎ 277-8074
3739 Beebe James E ◎ 277-6558
3740 Cox Richd E ◎ 277-6352
3746 Miller Mathew J ◎ 278-1689
BAGDAD ST BEGINS
SALIZAR ST INTERSECTS

63
3801 Olivarez Lou ◎
3809 Kantro Henry ◎ 277-3252
3810 Vacant
3817 Cates R Frank ◎ 277-5545
3818 Vacant
3825 Dunlavey Glenn O ◎ 278-0254
3826 Montgomery Calvin L ◎ 279-0980
3833 Eckes James ◎
3834 Stroud Sandy ◎ 278-0017
3842★Mailheau Lisa Mrs
3845 Bromann Wm F ◎ 277-3974
3850 Butler Lucy B Mrs ◎ 278-0385
3856 Ray J D ◎ 277-3513
3861 Settle Harry D ◎ 279-6453
3864 Ogden Alan D ◎ 278-1039
3869 Sims M L ◎ 560-1680
3872 Smith Steph L ◎ 278-9481
3877★O'Keefe Tim J ◎ 560-5806
3880 Baldridge Wilbert L ◎ 277-8349
3883 Sellers Raymond B ◎ 277-8602
3889 Overway Stanley M ◎ 277-1373
3895 Salazar Enrique H ◎ 277-4184

272
BENDIGO COVE —FROM 7750 BENDIGO RD NORTH

ZIP CODE 92126
10777 Storms Michl A ◎ 566-1541
10780 Ahlgren Edw V ◎ 566-0745
10785★Singh Rama N P 566-0796
10790 Herr Gerald ◎
10793 Ervice Greg ◎

272
BENDIGO RD —FROM 10800 PARKDALE AV EAST

ZIP CODE 92126
7708 Finch Randal C ◎ 566-1890
7709 Garcilzo Alex 566-1130
7716★Martinez Dani
7717 Armstrong Ralph N ◎ 271-8688
7724★Ward Roger L 271-7827
7725 Sutliff Lynn W ◎ 566-1009
7732★Clay Robt D ◎
7733★Baczynski Stanley J III 271-5276
7740 Mc Cardle Michl B 566-0085
7741 Rafter Henry O ◎ 566-0206
7748 Sardina Kath Mrs 566-1754
7749 Horton Leonard Jr ◎ 566-1370
7756 Moore Clarence E ◎
7757★Sauls Roosevelt 566-0893
7764 Turner Phillip ◎ 566-1554
7765 Parshall Walter E ◎ 566-0345
7772★Dye Frank Jr ◎ 566-2031
7773 Lambert Geri Mrs
7781 Graber Richd P ◎ 566-0074

643
BENGAL CT —FROM 10643 MONTEGO DR NORTH

ZIP CODE 92124
5411 De Lozier Roger D ◎ 292-9251
5412 Nagypal Bela ◎ 279-6871
5423 Bell Bill G ◎ 565-9251
5426 Davis Wayne E 277-5110
5435 Sweat Wm L ◎
5440 Harr Larry E 292-9925
5447 Patchin Theo P ◎ 279-6727
5454 Coopwood Paul Y ◎ 292-5184
5459★Daghy Joseph
5468 Angst Raleigh D ◎ 279-4298
5471★Kaiser Thos W ◎
5482 Verrilli Robt J ◎ 565-2714
5483 Pereira Nelson ◎ 560-6342
5495 Veraluis Larry A 565-0270
5496★Rutledge Michl R 565-6681

181
BENHURST AV —FROM 6300 FARLEY DR EAST

ZIP CODE 92122
4275 Higby Ronald E 452-1286
4285 Denis Robt R ◎ 453-0843
4286 Le Pari Charles ◎
4295 Andrus Fredk H 453-6146
4296 Lord Ronnie C ◎ 453-8695
4304 Doumas Speros A ◎ 453-0471
4315 Hogue Charles ◎ 453-8556
4318 Baddour John D ◎ 453-5853
4327 Vacant
4332 Horn Elton W 453-6627
4339 Nichols Roy E ◎ 453-1628
4346 Layton Richd W ◎ 453-3990
4351 Mason Billie M ◎ 452-1329
4360 Bickford Fred K ◎ 453-4928
4363 Vacant
4375 No Return
4376 Mendoza Stanley A 453-8286
4387 David Harold 453-2276
4390★Souza Manuel M 453-5808
4397 Ekno Harry R ◎ 453-2966
4407 Graner Carl E ◎ 453-8962
4417 Lee Teh H ◎ 453-2292
4420 Kirby Alvin A ◎ 453-1105
4427 Vacant
4432 Deaderick James H ◎
4437 Cariani Philip D ◎ 453-9311
4446 Tipton Jack R ◎
4447 Kellogg Neil D 453-6397
4457 Edwards Merle J ◎ 453-7887
4458 Vacant
4469 Gotthelf Edward J real estate ◎ 453-3246
4470 Stock Wm E ◎ 453-1164
4481★Scheible F Wm ◎ 453-4648

SAMPSON ST 1975

273
SALINAS WAY —FROM 7760 TRIPOLI RD NORTH

ZIP CODE 92126
10939 Grimes Michl L @ 566-0755
10940★Echavarria Domingo @
10943 Hartnett Robt K @ 271-7679
10944 Fung John @
10947★Waldrop Kenneth R
10948 Shock Paul W @ 271-7759
10951 Hermes Sandra Mrs @
10952 Winters Lawrence F 566-2118
10955★Berndt Douglas G @ 566-3121
10956 Couture Andre F @ 271-4796
10959 Daily Charles P @ 271-9175
10960 Davila Felix P janitoral serv @ 271-1893
10963 Weaver Therald N @ 271-1513
10964★Blunck Ronald D @ 566-6824
10967★Ramsay Mary L Mrs 271-0102
10968 Edmister Jerry E 271-7722
10971 Matthews Thos A @ 271-1482
10972★Gomez Sausedo
10975★Sheppard Ronald D @ 566-5923
10976★Wright Paul T 566-3898
10979 Glasser Joseph C @ 271-0756
10980 Monroe James H @ 566-2484
10983 Lagerblade Keith H 271-5135
10984 Mc Farland Carl R @

201
SALISBURY DR —FROM SOUTH OF 8456 ABBOTTSHILL RD NORTH

ZIP CODE 92123
2257 Dacy Wm M @ 279-0562
2263 Keller Richd F Jr @ 278-7757
2270 Neal Basil E @ 560-8904
2271 Reid Danl J
TRUCKEE AV INTERSECTS
2278 Schmidt James C @ 278-7605
2287 Haviland Vernon W @ 277-1403
2290 Nash Shepard K Jr @ 278-2192
2296 Bates Geo
ABBOTSHILL RD INTERSECTS
2307 Rose Monte D @ 277-3406
2312 Reynolds Wm L @ 278-6279
2317 Brandt Richd E @ 278-7915
2322 Peyer Harold H pub relations @ 278-7864
2327 Anderson Clair K @ 278-7608
KINGSLAND RD INTERSECTS
2337★Levin Alex 565-4776
2347 Tattersall Jack V @ 277-4752
2352 Myers Howard L @ 277-0932
2357 Wells Donald A @ 279-9279
2367 Greene Louis H @ 278-5648
ROYCE CT INTERSECTS
2383 Colvin Bill G @ 277-9719
2392 Hollowell L E @ 292-7966
ENCINO AV INTERSECTS

469
SALIZAR CT —FROM 4000 MT ALBERTINE AV WEST

ZIP CODE 92111
6403 Larner Walter C @ 277-8040
6404 Amarillas Sal @ 560-9093
6415 Morris Diane C Mrs @ 279-1448
6426 No Return
6427 Fillingame Sam C @ 278-0945
6439 Alderink James W @ 279-3360
6451★Freese Roger L @ 279-1178
6452★Mitchell John G @ 277-5950
6463 Mc Knight Charles H @ 279-4509
6475★Hoshko Michl Jr @ 278-1790
6487 Reich Wilson D @ 279-0331

469
SALIZAR ST —FROM 4000 MT ALBERTINE AV EAST

ZIP CODE 92111
6502★Simpson Ray 560-7136
6503 Stauffer W Dale @ 279-5619
6516 Kresowaty Edw F @ 277-0666
6517★Leech Howard A @ 277-5418
6530 Sands Luverne W Rev @ 279-0939
6531 Dixon Gene @ 279-0678
6544 Wolcott Steph J 279-6788
6545 Du Moulin John L @ 279-5003
6558 Alvarado Phillip
6559 Winder Roy B @ 277-5973
6572 Potts Jerry A @ 565-9046
6573 Fausett Construction Co genl contrs 279-3645
Fausett Eug W @ 279-3645
6586 Jurist Sheldon L @ 279-8285
6587 Kerosck Kirk @ 277-6795
6613 Vacant
6626★Hartman Kenneth J 279-6507
6635 Stirling J Robt @ 279-5572
6642★Moribe Lee J @ 565-6594
6653★Pereira Vasco
6656 Felden G P Construction Co genl contr 277-9050
Felden Geo P 292-5575
6669 Warnecke Morris @ 277-9037
6695 Domis Jack C @
AUBURNDALE ST INTERSECTS
6702 Turken Julius 277-9800
6709 Sandler Herbert E @ 278-5412
6714 Vaughn John H @ 278-8408
6719 O'Malia Charles F @
6726 Otsuji Haruhiko @ 278-3343
6733 Stratton Raymond E @ 278-4157
6738★Caudwill G Wayne @ 279-5426
6739 Pursell Robt T @ 565-1114
6747 Vacant
6750 Long Danl M @ 565-6901
6759★Whitaker Wm G @ 560-9226
6762 Groenig Stan R @ 565-7352
6805★Casciola Cesar E
6808 Merritt Trevor 277-1496
6823 Holmes Holly @ 278-9726
6826 Rogers Richd M @
6841 Van Houten Paul B
6844 Mc Cormick John I 279-4483
6859 Hardesty Harold C 277-5041
6862 Drumm Walter S @ 278-1789
6907 Bridenstine J B Jr 279-6796
6912 Mc Cauley Wm @ 279-5698
6927★Price Lloyd
6932 Vacant
6947 Armstrong Gilbert A @ 279-5768
6952 Fehl Fredk C Jr @ 279-6618
6967 Vacant
6972 Haacke Karl M @ 277-8167
6987 Mc Cord Dennis C @
STRONG DR BEGINS
7120 King Calvin L @ 292-9487
7127 Warnock Lewis W @ 278-1162
7128 Johnson Wm L @ 278-0315
7135 Dentt Frank S @ 278-1147
7136★Sayer Ralph H @ 279-0718
7143 Van Cleave Jack M @
7144 Knowles Roy A @
7151 Carniglia Phillip @ 278-1728
7152★Marquardt Curtis 278-8176
7159 Meister Jane Mrs @
7160 Funk Diane Z Mrs @ 565-9746
7167 Vacant
7168 Vacant
7175★Haas M Mrs @ 279-4021
7176★Middleton Lelia @
7184 Mc Donald Phillip W @ 277-4349
ARMSTRONG ST INTERSECTS

63
7401 Wood Robt F @ 277-5010
7407 Haneiwich Konstanty @ 278-0978
7411 Saxon Charles @ 277-1704
7415 Peterson Edw C @ 278-9231
7419 Pendergrass Lester W @ 279-6833
TIARA ST BEGINS
7423 Ford Joseph L @ 277-8739
7426 Roberts Arron @ 277-0711
7427★Hildenbrand John F 278-6976
7431 Imo Eddie @ 277-5436
7432 Hosteder Danl K @ 277-4684
7435★Adame Edw @ 277-7647
7441 Brown Clarence E @ 277-4855
7447 Sawatzki Rose C Mrs @ 278-0897
7451 Collins J L 278-2556
7457 Pasnak Theo F @
ROSETTA CT INTERSECTS
7461 Cook Elmer H @ 277-1592
7465 Delgadillo Gregorio @ 277-1510
7468★Manaker Herman
7469 Hyvarinen Geo M
7475 Ashworth Charles S @
7476 Van Boxtel Frances J Mrs @ 277-7977
7479 Frey Donald G @ 277-8146
7482 Minto Joseph P @ 277-4275
7485 Dunlavy Gary C @
7491★Sawalski Bob
ASHFORD ST INTERSECTS
7505 Stemen Quinn F @ 278-0646
7517 Burgi Charles E @ 278-0648
7529★Caudillo Edw @
7541 Wynns Robt C @ 277-8459
ANTIEM ST INTERSECTS
7553 Phillippi Fred M @ 292-4237
7565 Konold James H @ 277-8458

208
SALTA PL —FROM 5100 CHOLLAS PARKWAY NORTH

ZIP CODE 92105
3302 Banda Joaquin C @ 282-1255
3303 Bultez Louis R @ 283-5206
3312 Kozak Edw P @ 283-4076
3315★Oliver Albert R @ 282-3315
3322 Sprinkle Robt E Jr @ 282-4466
3325 Gessner Andrew M @ 284-5287

271
SALUDA AV —FROM 6380 JADE COAST DR NORTH

ZIP CODE 92126
10150 Burgsteiner Ben L 271-4874
10151 Blechynden Michl L @ 271-4071
10158 Damm Wm T @ 271-1615
10159 Frederick Larry E @ 271-1616
10166★Wamack David C 566-3062
10167 Deep John @ 271-4987
10172 Biondo Nicholas A @ 271-1617
10175★Mc Neil S 566-5298
10180 Grewal Harnek S @ 271-5477
10183 Dominguez Adolfo @ 271-0364
10190★Martinez Edw B @ 566-5942
10191★Richardson Barry C @ 566-1925
10204 De Santiago Ruben 271-8177
10205★Ganci James J @
10210 Koenig John M @ 271-4447
10211 Vacant
10216 Garcia Steven P @ 271-0519
10217 Viets Victor E @ 271-4180
10222★Mirales Antonio Jr @ 566-3555
10223 Vale Cruz Ruben P 271-4726
10228 Martinez David @
10229★Hobbs Richd A
10234 Tooman Roger N @ 271-4098
10235 Loop John R @ 271-7993
10240 Vogel Georg @ 271-4477
10241 Bugera Ernest @
10246★Holdenfield Harvey J @
10247 No Return
10252★Henderson Floyd
10253 Parker James D @ 271-4531
10258 Vacant
10259★Estrella Abr J @ 271-6957
10264★Morlett Richd A 566-4569
10265 Sada Donald E @ 271-4610
10270 Esteban Jaime S @ 271-4743
10271★Connell Jack 271-5347
10276★Courtright Charles R @ 271-7727
10277 Lighting Supply Co lighting mtce 271-4186
★Cossman Paul T @ 271-4186
10282★Creighton Jon 566-5419
10283★Thomsen Alice Mrs 271-4483
10288 Hollenbeck Jack W @ 271-4588
10289 Hornberger Ernest @ 271-6291
10294 Fortuna Frank @
10295★Elliott Gerald F @ 566-3644

189
SAMOSET AV —FROM 4225 SAGINAW AV NORTHEAST

ZIP CODE 92117
4204★Brow Gary L @ 270-7255
4212 Ketchin Ray V @
4215 Lawrence Dawn E @ 274-4193
4220 Thurman Richd L @ 273-8925
4225 Evans James H @ 273-0841
4228★Johnston Douglas A
4235★Perez Marciano 273-3611
4236★Michaur R John 270-1057
4244 Wilber Charles 276-1882
4245 Martinez Cipriano @ 273-6257
4255 Hollingsworth Sharon G Mrs
4260★Ramsey John R 272-3133
4265★Evilsizor Hubert E 270-0489
4268 Kraska Sally
4275 Kitting Walter L @ 274-7823
4276 Womack Arletta G Mrs boarding hse @ 274-7109
4285 Fortier E Russell @ 274-3437
4286★Day Raymond L
4304 Hogue Robt L @ 273-2223
4311 Gladin Theresa Mrs @ 276-4007
4314 Smick Donald C @ 273-9379
4324 Allen Carol Mrs 274-3897
4325 Roche Robt J @
4334 Cammon Jorine
4335 Cihak Rudolph J @ 276-1309
4344 Brammell Ellinor S Mrs @ 273-2955
4345 Porter Frank L 272-0957
4354 Clarkson William H @ 274-0845
4355 Occhipinti Carl G @ 273-1884
4364★Cantrell Ronald K 273-4958
4365 Garber Lucille Mrs @ 274-1685
4374 Robertson Gladys L Mrs @ 273-4691
KLEEFELD AV INTERSECTS
4403 Ruhnow Holly R @
4404★White R S @ 274-7958
4414 Ashby Joseph E Jr @ 274-1536
4415★Schulz Janet @
4424 Andrews Barbara J Mrs @
4425 Steimetz Harry L 270-0868

318
SAMPSON ST —FROM 250 S 28TH ST SOUTHWEST

ZIP CODE 92113
202 Greene Jesse R
206 Turner John C 236-0972
222 Vacant
238 Hamilton Bessie M Mrs @ 239-0758
CLAY AV BEGINS
241 Marshall Thos W @ 234-7518
244★Samyn Alphons @ 233-5758
FRANKLIN AV INTERSECTS
314 Burton Paul @ 232-1340
315 Vacant
319 Cedillo J Paulo 235-8890
323 Flores John 234-4209
324 Vacant
325★Parra Ramon 235-8934
328a★Shine Olivia Mrs 233-1490
328b★Price Woodrow 232-4893
339★Padilla Jose R 232-1506
OCEAN VIEW BLVD INTERSECTS
412 Whitmore Apartments 232-2856
414 Allie's Beauty Shop 232-0528
414½★Roberts Charles V 238-0583
415★Bean L Mrs @ 239-2537
416 Vacant
418 Vacant
419★Carter Gene 235-4120
420 Jones Glenn E 232-9558
431 Vacant
441 Vacant

18
HARRISON AV INTERSECTS
512 Vacant
514★Guzman Miguel V 235-8224
515 Thomas Otis Rev @ 239-2792
516 Vacant (516-22)
528 Mc Clennan Rosa 233-8790
529 Lizarraga Olimpia G Mrs 238-0634
534 Moore Thelma Mrs @ 239-3561
546 Martin's Grocery 232-0584
Hurtado Abel 234-7640
IRVING AV INTERSECTS
603 Quintero Richd
609★Turner Curtis 232-9361
611 Vacant
615 Buccat Aida
619 Mc Intosh John D
621★Esparza Antonio 232-5458
623 Brown Willie 232-4791
625 Vacant
627 Gurst Georgine Mrs 239-7668
629 Garrison Beaumond D @ 233-0642
635 Tyler Bertha Mrs @ 236-0771
644★Mullen Annie L Mrs 238-0576
645 Vacant
JULIAN AV INTERSECTS
704 Hollman Bernardo M @ 234-0429
717 Vacant
721 Parra Armando 235-8115
724 Smith Ruth Mrs 238-0354
740 Franco Frank Jr 234-5913

16
KEARNEY AV INTERSECTS
LOGAN AV INTERSECTS
906★Valenzuela Guadalupe F Mrs 235-9073
908 Torres Juan 235-6876
910★Bonales Lucy Mrs
911★Oleson Richd
912★Aiello Eitan
914★Seto Jewell Mrs
924 La Popular Tortilleria (Whse)
930 Garcia Otilia Mrs
934 Martinez Jose M 233-7828
938★Munoz Ascenion
942★Cordero Peter
NATIONAL AV INTERSECTS
1016★Ayala Raul
1018★Genervo Helen Mrs
1020★Ybarra Jose 234-7765
1022 Gomez Evelyn 239-3913
1027★Mendoza Rose Mrs
1037 Quintero Dolores Mrs 233-9770
1043 Reyna Miguel @ 236-1840
NEWTON AV INTERSECTS
MAIN ST INTERSECTS

905
HARBOR DR INTERSECTS
1304 Volker Wm & Co Inc fl covering 239-9205
AT&SF RY CROSSES
1335 San Diego Marine Construction Corp (whse)
1347 Santa Fe Railway (Frt Hse) 232-0197
Santa Fe Trail Transportation Co trucking 239-0155
1348 San Diego Gas & Electric Co (Silver Gate Station) power sta
BAY FRONT ST INTERSECTS
BELT ST INTERSECTS
1401 National Petroleum Co 239-0256
E BELT ST INTERSECTS
ft San Diego Marine Construction Corp shipbldrs 238-1000

68
SAN ALBERTO WAY —FROM 5200 TRINIDAD WAY NORTH

ZIP CODE 92114
311 Phillips Otha L @
312 Grays Stacy E @ 264-7012
317 Taitano Guillermo T @ 264-0097
320 Gray Maurice @ 284-4223
323 Peace Robt T @ 262-7239
327 Vacant
332 Munoz David M @ 264-5974
335 Gay Millard F @ 263-1751
341 Simpson Charles A @ 262-9082
342 Johnson Eddie L @ 263-3519
347 Vacant
403 Woods Louis G @ 262-9170
404 Thomas Gwendolyn M Mrs @ 262-7675
411 Romero Hilbert M @
412 Nunley John @ 264-3734
419 Burris Ross C @ 262-6917
420 Grant Carrie Mrs @ 264-7736
427 Arreola Julio M @ 262-6458
428 Stewart Eddie Rev @ 264-1961
433 De Leon Thos @ 262-2547
436 Muckelroy Ruby R Mrs @
439 Jackson Roland E @ 264-3282
444 Dorrough Willie D @ 262-8931

373
SAN ANSELMO DR —FROM 4900 SAN JOAQUIN DR EAST

ZIP CODE 92109
2507 No Return
2514 Green Geo @
2515 Huetter Bernard R Jr @ 273-4619
2522 Lang Kenneth T @ 272-0302
2525 Casutt Max @ 272-0896
2530 Wixey James F @ 274-5835

BAY FRONT ST 1966

BAXTER ST--CONTD

5111 SIMONDS VIRGIL D • 273-1613
5112 GAUT EDW A • 273-1939
5120 JONES SAML N • 273-6125
5121 STAGNER COY S • 273-6123
5131 SCHOONOVER EVERETT O • 273-1690
5141 KYES RUTH MRS 273-6553
5144 OLSON GEO W • 274-6577
5150 VOJTKO GEO R • 273-4294
5151 VACANT
5156 VACANT
5159 VACANT
5165 JOHNSON CARL A •
5170 SATTERLEE MICHL C • 276-1465
5175 VACANT
5188 PRAZMARK JAMES A •
5189 FARHOT JERRY L • 276-2581
5198 BALISTRERI ANDREW • 274-8970

905

BAY FRONT ST -FROM SIGSBEE SOUTHWEST TO SAMPSON

1995 NATIONAL MARINE TERMINAL INC
CONL FISHERMN 232-7311
WESTGATE-CALIFORNIA CORP CANNERS 232-7311
WESTGATE CALIFORNIA PRODUCTS INC CANNERS 232-7311

17

BAY VIEW CT -FROM 1859 LYNDON RD SOUTH

4047 HAMILL ALICE E • 296-6451
4051 ROCLE LOUISE MRS • 295-6122

83

BAYARD ST -FROM 1 BLK SOUTH OF 900 PACIFIC BEACH DR NORTH

4005 SCRIPPS THOS O • 488-2633
4025 CRISCOLA ANTHONY P • 488-0355
---PACIFIC BEACH DR INTERSECTS
4104 BARNES JOHN D 488-7396
4110 BECKETT HERBERT L • 488-8120
4120 WINBERGER RICHD C • 488-2083
4121 TICHENOR ALICE L MRS • 488-4304
4127 TAMMEN BILLY F • 488-5107
4138 TELLOUS HAROLD O • 488-2238
---OLIVER AV INTERSECTS
4204 SCHUSTER LENOIR MRS • 488-3672
4205 GELARDI CHARLES W • 488-2219
4211 BOWMAN JOHN P • 488-8230
4212 SCHAPERKOTTER MARSHAL C • 488-6307
4218 SZALONEK CAROLINE MRS • 488-0372
4225 GRAY ERNEST S • 488-4166
4226 DUNBAR PALMER H • 488-4122
4236 WHITMAN JACK H • 488-5635
4239 SUGITA SAM I • 488-0162
4242 SWIFT RUSSELL W • 488-4316
---REED ST INTERSECTS
4277 POWRIE WM D 488-4297
4278 KINGSLEY ALICE M 488-0874
4280 WARFIELD LOUISE F MRS 488-1184
4282 CARTER BERNARD M 488-7498
4284 VACANT
4285 VACANT
4287 CHRISMAN CLARA B MRS 488-6297
4289 VACANT
---THOMAS AV INTERSECTS
4310 MEADY ROBT 488-4673
4316 CHRISTENSEN DOROTHY N MRS •
---GRAND AV INTERSECTS
4406 DRAKE REALTY CO 488-2886
4408 BOBBIE'S TAILORING MENS & LADIES ALTERATIONS 488-5066
4410 COTTON JESSE D TAX CONSULTANT 488-6608
4412 ABRA EMPLOYMENT SERVICE 488-0505
4414 CLAIREMONT APPLIANCE HSEHOLD APPL DLRS 273-3959
4425 FRYE JOSEPHINE L MRS 488-6263
4435 SCHMITZ MILDRED B 488-4269
4441 GAVETT EMILY R MRS 488-8881
---HORNBLEND ST INTERSECTS
---GARNET ST INTERSECTS
4516 SMITH HENRY
4518 MEJIA TONY 488-2641
---FELSPAR ST INTERSECTS
4627 KILGORE MARY M MRS 488-5136
4629 MC CUE MARY A 488-5785
4630 CARTER JACK R • 488-4694
4631 NIEHOFF CATH MRS 488-4216
4633 RAYCE JOSEPH
4635 CROCKER CHARLES B
4637 SONNESON ERIC
4639 SCOTT EARL 488-6029
---EMERALD ST INTERSECTS
4650 FULLER ELIZ MRS
4652 VACANT
4654 WATTERS HELEN M MRS 488-1815
4655 STRAMAGLIA JOE 488-7161
4656 RICE LAWRENCE R 488-0230
4657 CALLAN MAUREEN H MRS 488-2208
4658 RICE ROBT
4659 PATITUCCI JACK O 488-8556
4661 VACANT
4663 VACANT
4679 BISBY LLOYD L 488-0202
4682 HVEEN HELENE
4684 NELSON WM H 488-1485
4686 VACANT
4688 MILLER MIRIAM MRS 488-9874

87

---DIAMOND ST INTERSECTS
4725 KEMPER RALPH V • 488-5709
4726 WASHINGTON MOZELLE S MRS 488-4645
4727 DENHAM JAMES H 488-9798
4728 MORGAN THURMAN 488-3826
4737 ARNDT PAUL JR
4739 HAMMOND BESSIE MRS • 488-4442
4741 SHAW LINDA L
---MISSOURI ST INTERSECTS
4758 NO RETURN
4765 ERICKSON ALVINA MRS •
4766 VACANT
4776 TRENFEL JACQUELINE T MRS • 488-6693
4777 LA ROCHELLE JAMES V • 488-2669
4780 VACANT
---CHALCEDONY ST INTERSECTS
4815 NO RETURN
4824 ROSENBOHM RICHD H • 488-1823
4826 VACANT
4827 ALDRICH CARROLL E • 488-5645
4878 COREY JOSEPH 488-5246
---LAW ST INTERSECTS
---BERYL ST INTERSECTS
4890 FISHER MARK
4916 BALZER JOHN J • 488-3905
4917 SPIES ROSALIE MRS • 488-9604
4926 DAVIS ODESSA S MRS 488-0489
4935 WILSON JOHN C 488-7108
4937 BAKKEN ERWIN M REV • 488-3063
---WILBUR ST INTERSECTS
4964 COLIANNA FRANK G • 488-0070
---LORING ST INTERSECTS
5018 CURRAN EDITH G MRS • 488-4788
5027 VACANT
5028 SIUDZINSKI WM J • 488-8141
5029 CAPOUCH PHILIP D 488-2061
---OPAL ST INTERSECTS
5075 PALMER ROBT L 488-0264
5076 ROCHOW RANDALL F
5079 HAMILTON CURTIS W • 488-1549
5081 TRUE PAUL E JR 488-6911
---TOURMALINE ST INTERSECTS
5116 LA FONTA SIDNEY A • 488-6248
5126 BOEHM SHEILA K
5130 NO RETURN
5134 VACANT
5138 BOEHM KATH G
---SAPPHIRE ST INTERSECTS
5150 MUNSON EDNA F
5160 VACANT
5160½ CHODZKO RAY A
5161 KELLY HERBERT E 488-1749
5162 LAFFEN LAWRENCE E
5162½ KOCH REYNOLD R 488-1802
5170 BAYARD APARTMENTS
1 NEAL VIRGINIA N
2 VACANT (APTS 2-4)
5 DRIER FRANCES
6 NO RETURN
5173 VACANT

166

BAYLOR DR -FROM COLLIER AV NORTH 3 WEST OF 54TH

4705 VACANT
4711 CONRAD GLENN R • 582-4233
4717 ABRAMS MACY L • 582-4204
4723 HIATT MARION • 583-2147
4730 BLUM DANL F • 582-2983
4736 MORGAN DAVID E • 583-1198
4737 MEANS ROY •
4743 DE MEULIS JEAN • 582-5153
4744 LOSS ERWIN C • 582-0502
4751 HARTLEY HAROLD R • 583-3867
4759 KREPT F HENRY • 582-8718
4803 FEINBERG BELLA MRS • 582-6017
4809 HUNTER RALPH A • 582-7808
4817 POTTER AUSTIN W • 582-6736
4818 NO RETURN
4823 BELKIN PAUL • 582-8657
---ALCORN PL BEGINS
4829 ROBINSON JOHN W • 582-7335
4840 TEIG NELS • 582-1032
4850 PIERSON EUG W • 582-6177
---AUSTIN DR INTERSECTS

79

BAYONNE DR -FROM 3400 INGRAHAM NORTH

3065 GOWLAND GEO • 273-0729
3404 COOP WM • 274-3173
3410 BROOKS JOSEPHINE D MRS • 274-2729
3411 PETERSEN ARNT • 273-2966
3416 COOPER RICHD G • 274-1689
3422 TURNER HENRY G • 273-3687
3423 OTT CLARA W MRS • 274-1635
3428 MOLYNEAUX GEO • 273-1130
3433 DODSON JAMES • 274-5404
3434 SHISLER HENRY G • 274-1441
3437 FOSTER DON S 274-2445
3440 GILLILLAN ROBT D • 273-8319
3445 MILANDER MERLIN L • 273-5526
3446 KRUEGER DAISY V MRS • 274-1428
3451 CUMMINGS BENEDICT P • 274-2615
3452 BUCKEL ARTH • 274-6783
3461 HARRIS FRANK O • 274-2155
3462 KING RUBEN J • 274-1342
---LA CIMA DR INTERSECTS
3503 ASMAN FRANCES P MRS • 274-5986
3504 CARROLL WM B • 274-3911
3509 LECOG EUG D • 273-0845
3510 ANDERSON JACK K PRESCOTT A E MRS 274-1189
3515 PEARSALL RUTH E MRS • 274-1405
3516 GREEN BENJ A • 274-1817
3521 GUDAITAS GRACE C MRS • 274-6653
3524 CHRISTENSEN RICHD P • 274-5198
3529 VAN HORN MELVIN L • 273-8057
3530 GARNER MYRON O •
3535 GOW RUSSELL D • 274-2299
3536 ATHA AUGUSTUS A • 274-2308
3541 CLARK WALLACE L • 274-1889
3544 STEELMAN NORMAN L •
3547 REMER RAYMOND E 274-4488
REAR LEE EMILIE P MRS 273-9997
3548 HAYDEN SAYLIN E •
3553 HARTIN WM J • 274-0336
3554 VACANT
3559 WEINGARTNER CARL J • 274-2205
3560 MILLER FLORIAN H • 273-9237
3565 NO RETURN
3566 VACANT
---LA MANCHA DR INTERSECTS
3603 PIERCE LESTER E 274-1578
3604 NO RETURN
3610 LAFFERTY EUG H • 274-1895
3611 WELLINGTON LORENA N MRS
3615 BELT OPAL MRS • 274-2617
3616 HAMILTON ERNEST A • 274-2256
3621 GARCIA GUILLERMO E •
3622 BRAUER JOHN N • 274-2856
3627 PATTERSON MAGDALENE S MRS • 273-8999
3628 GREEN MARLAND O • 274-2189
3633 DAVIDSON ANN MRS • 273-3634
3634 WALKER PATRICIA A MRS
3639 ROETHEL GEO • 274-1059
3640 STEVENS NORMAN C • 274-1348

BELT ST E 1966

BELLVALE AV--CONTD

5166 CONWAY CHARLES ● 277-6978
5170 MATCHKE JEROME L ● 279-1990
5171 FINLEY WM O ● 277-8577
5174 SCHINDEWOLF RICHD ● 277-0484
5177 VEST CHARLES S ● 278-7389

230

BELMONT AV -FROM E MOUNTAIN VIEW DR EAST 2 NORTH OF 3800 ADAMS AV

3801 PACK COLLETTE A 281-8598
3811 ADAMSON MILDRED E MRS ●
3812 CALAM THOS H ● 282-0969
3819 VACANT
3820 BUMBAR PETER ● 283-6990
3828 KINNINGER ALLAN J ● 282-9581
3829 D'AURA JOHN ● 281-8013
3832 VACANT
3839 SEXTON DANL A ● 284-9860
3844 WOODWARD E PAUL ● 282-2636
3853 HOWARD ALICE L MRS ● 284-3205
3858 ROSS CLARENCE B ● 281-7074
3861 ARMSTRONG FRANK L ● 283-3819
3866 SUND WARREN L ● 281-3288
3867 CORBY ELWOOD N ● 284-8039
3875 MC KEE WM A 283-3062
3876 KOHRS LEWIS P ● 281-0691

69

BELOIT AV -FROM ARVERNE EAST 1 SOUTH OF PETIT

6802 BENNETT PAUL W
6805 ADAMS NORMAN ● 279-3749
6826 HUSEBYE H KEITH ● 278-7743
6829 KUSSEMAN STANLEY E ● 278-9734
6850 JACKSON HIRAM E II ● 277-3931
6853 MORGAN MILTON E ● 278-0185
6874 SAMONS DAVID F ● 278-4094
6877 OSBORNE WM E ● 278-2315
6906 FERGUSON MORRIS E ● 278-8960
6907 MC NEIL LAWRENCE ● 278-3242
6930 LANG ROBT F ● 277-6239
6931 HENIFIN EDW E 277-5349
6954 LYNN ROBT J ● 277-5993
6955 STANHOPE CLAUDE E ● 278-3768

905

BELT ST E -FROM SOUTH OF CROSBY SOUTHEAST

2098 KELCO CO (YARD)
2145 KELCO CO (PLANT) CHEM MFRS 232-1012
2293 HARCO ENGINEERING 239-0861
2295 ETS-HOKIN & GALVAN ELEC CONTRS 234-6301
2305 D N C MOTOR FREIGHT SYSTEM TRANS LINE 234-8401
2315 BLUE FIN GRILL 239-9610
---HARBOR DR INTERSECTS

905

BELT ST N -FROM 100 WEST F ST NORTH

---GRAPE ST INTERSECTS
---HAWTHORN ST INTERSECTS

95

BELVEDERE ST (LA JOLLA)-FROM 3 BLKS WEST TO 7050 LA JOLLA EAST

---NEPTUNE ST INTERSECTS
215 MORGENSTERN HERBERT 454-4759
221 HOWE JOHN E 459-2128
226 MOREHEAD HAROLD L ● 454-2035
---VISTA DEL MAR ST INTERSECTS
304 MASON DONNA M 454-1323
324 NESTOR JOHN L ● 459-5076
325 LAIDLAW ASHTON ● 454-2939
329 KLOKE CORT ● 459-4811
331 CLARK GILBERT D 459-5411
334 MOORE ELIZ D MRS ● 454-1989
338 VAN SLYKE MARTIN C ● 459-6228
340 DEGENER ARMIN ● 454-5010
341 NO RETURN
351 DRAKE MARGT P MRS ● 459-5833
358 WISHART HARRIET ● 454-6852
359 VACANT
369 DUCKWORTH HUBERT B ● 454-1628
---MINTE VISTA AV INTERSECTS
402 SWEET HORACE L ● 454-1032
405 SIPES ADA F MRS ● 454-7294
407 CURTIS HAROLD F ● 454-1354
410 EBERT HOWARD P ● 459-1003
418 BEAL ELOISE F MRS ● 459-5196
421 VACANT
424 PERKINS ALLAN M ● 454-1009
431 CAMPBELL LEROY T ● 454-1530
439 LEDIN ERIC 454-1455
440 CRUTCHFIELD JAMES P
442 CRUTCHFIELD BEATRICE T MRS ● 454-1439
447 SINCLAIR MABEL J MRS 454-6575
450 MATTSON PHILIP T JR ● 454-6319
458 RICHARDSON FLORENCE MRS 454-0211
459 VACANT
460 DAHL EVELYN T
461 SMITH NORMAN M ● 459-2460
462 SAUNDERS JOSEPH C 454-7449
464 JENKINS FLOY 454-9657
469 GANTNER JOSEPH F 459-6822
---LA JOLLA ST INTERSECTS

69

BEN ST -FROM BEAGLE NORTH 1 EAST OF BELFORD

3501 ROOSA WM F ● 277-9686
3511 PENA EUG ●
3512 ELLINGTON GLENN R ● 278-3121
3521 DONNELLY ROBT F ● 278-5804
3522 WHITE EDW F ● 278-0853
3531 COATH ROBT L ● 277-9668
3532 JOHNSON JAMES N ● 277-2494
3541 KAMERLING RUSSELL C ● 277-9745
3542 LUDLAM RICHD H ● 278-0409
3551 JONES JOYCE MRS ● 277-9745
3552 MILLS RUTH S MRS
3561 MC DANIEL WAIDE 279-0338
3562 JACKSON VICTOR E ● 277-7169
3571 MAPEL GORDON B ●
3572 NORTON RICHD H 278-8630
3581 DAVENPORT GERALD D
3582 SCHMITTEN MARLIN J ● 278-5566
3591 DUNLAP ROBT D ● 277-9689
3592 MC LANES DON L ● 277-4295
3613 NO RETURN
3614 DUPRE ARTH ●
3624 NO RETURN
3633 WENDORF VERNON A ● 277-1598
3634 DRURY EDW A 278-0803
3643 ARBAUGH ROBT W ● 278-4994
3644 POLICH ELMER J 277-5895
3653 KINMAN KENNETH C ● 277-9695
3654 MILLER HOWARD R ● 278-4016
3663 SHIVE JAMES V ● 277-8144
3664 STASNY EDW J ● 277-3678
3673 BURGER EDW L ● 277-1303
3674 SHERER FRANCIS P ●
3683 JENSON DARROL E ● 277-9767
3684 GORDON JAMES W ● 278-0850
3695 MANNING EDGAR W ● 277-7641
3696 RAGOZZINO GERALD ●

63

---ARMSTRONG ST INTERSECTS
3701 FLOYD ALBERT T ● 277-7482
3702 YASINSKI JOHN ● 277-5009
3707 HOLMES MURIEL M 277-2727
3708 MAIERS EDW B ● 277-1027
3714 PACIFIC BUILDERS BLDG CONTR 277-6503
QUIST JOHN W ● 277-6503
3715 PERRY WAYNE A ● 277-6421
3720 RIBAS PETE P PNTR CONTR ● 277-1203
3721 MINTER ROBT E ● 277-0856
3727 MOSLEY JAMES A ●
3730 WRAY FRANCES M ● 277-8136
3733 MASON JOHN P ● 277-4056
3739 BEEBE JAMES E ● 277-6558
3740 COX RICHD E ● 277-6352
3746 BEZICK THOS N ● 279-2647
3801 KERR JAMES R 279-2537
3809 KANTRO HENRY ● 277-3252
3810 MC MILLEN MICHL ● 278-9173
3817 CATES RICHD F ● 277-5545
3818 MARTIN ORA MRS
3825 DUNLAVEY GLENN O ● 278-0254
3826 MONTGOMERY CALVIN L ● 279-0980
3833 ECHES JAMES H ● 278-0108
3834 GOODMAN WM B ● 277-6386
3842 PHOTINOS JAMES O ● 277-4647
3845 BROMANN WM F ● 277-3974
3850 BUTLER CALVIN O ● 278-0385
3856 RAY J D ● 277-3513
3861 PEACOCK GAIL D ● 277-6954
3864 OGDEN ALLEN D 278-1039
3869 STEIDL ELWIN J ● 277-1355
3872 SMITH STEPH L ● 277-4825
3877 FAITH JACK L ●
3880 BALDRIDGE WILBERT L ● 277-8349
3883 SELLERS RAYMOND B ● 277-8602
3889 OVERWAY STANLEY M ● 277-1373
3895 SALAZAR ENRIQUE H ● 277-4184

129

BENICIA ST -FROM 2 BLKS SOUTH OF 5500 GAINES NORTH

1055 ORCUTT HAZEL M MRS ● 295-9996
1100 SAN DIEGO GAS & ELECTRIC CO (SUB STA)
1133 KELLEY DAVID T 295-1903
1213 GENERALAO JULIAN ● 298-0319
1233 ARCHER RALPH ● 298-7596
1235 RACHMANOW ANDREW A ●
1236 CLARK JOHN E ● 295-5432
1266 SPEARS HARRY H 295-4803

196

BENSON AV -FROM 61ST ST EAST 4 SOUTH OF IMPERIAL AV

6130 NEAL WAYNE C ● 264-1715
6611 VACANT
6660 SELLS ROBT ● 264-4717
6681 VANCE ROLLAND L ● 264-9010
---RITCHIE ST INTERSECTS
6710 SACHSE GUS F ● 262-6650
6741 PIFARI EDW ● 262-5244
6745 MILLER KATH E MRS ● 264-1778
6864 MORRIS HOWARD V ●

76

---69TH ST INTERSECTS
6901 CARTER MARK ●
6911 STRAUSS SEYMOUR ● 263-1486
6912 BANAGA CONCEPCION MRS ESTRADA OCTAVIO ● 262-5405
6919 ALLDS RICHD E ● 262-2148
6920 VACANT
6927 BRASHARS WILBUR ● 264-8727
6928 IDIOMA MANUEL J ● 262-6922
6935 WILSON RAY E ● 262-6038
6936 VACANT
6943 AHLHEIT GEO ●
6944 GONZALEZ JOSE ● 262-2124
6953 SPENCER E DAVID REV 262-7398
6956 RAMIREZ EDWIN
6963 PURCELL HERSCHEL ● 262-5218
6968 HAYES ARON 262-5118
6973 HAMILTON LESLIE ● 264-4253
6980 THOMAS PAUL E ● 264-9852
6983 MILLER EDW S ● 262-7416
6993 RIVAS ALFONSO ● 264-7698
7003 WATKINS GANO O PAINTING CONTR 262-0985
7015 RODRIGUEZ RAYMOND ●
7027 CAMP RALPH ● 264-7672
7036 FOSTER GERALD J 264-9103
7039 MASON MILDRED MRS ● 262-7390
7048 VAUGHT RICHD 262-0932
7051 RUSSELL JACKIE S ● 262-5853
7060 HELM WM A ● 262-0386
7065 POWELS EDGAR ●
7070 GREAVES OSCAR ● 264-8903
7075 FENNER MILTON G ●
7078 GILMORE THOS 262-7666
7086 MARBACH WM J ● 264-7175
7089 DILL BENJ ●
7096 FERNANDEZ CARLOS ● 263-1636

230

BENTON PL -FROM 3550 E MOUNTAIN VIEW DR NORTH

5105 KENDRICK FRANCIS A ● 284-8834
5111 SAMPSON ELMER J ● 284-2891
5112 PIERCE RICHD H ● 283-3323
5117 STADLER KENNETH D ● 281-8737
5124 SANDHAGE RAYMOND F ● 284-1898

TP	Adjoining	Source
-	✓	R. L. Polk & Co.

SAMPSON ST 1966

SALERNO ST--CONTD

7409 REDDINGTON EDW J • 277-7445
7416 REINA VINCENT S • 277-6062
7417 HALL WORTH W • 277-3315
7425 WILSON FRANK M •
7426 BECKNER ROBT A • 277-5819
7433 STRONG WAYNE 278-4204
7434 HARDCASTLE ROSS M • 279-2735
7441 CARPENTER KEITH M • 277-2413
7442 VACANT
7449 LONGTIN FRANK J • 277-6393
7450 LARSEN HAROLD F • 277-5696
7457 VACANT
7458 MC IVER WERNER 279-2119
7465 NICHOLSON JAMES H 278-9583
7466 LUCKS JACK E • 277-8083
7473 VACANT
7474 MENDIOLA LOUIS • 277-7729
7481 WILSON RALPH E • 277-7824
7482 CASTLE JOE C 277-0177
7492 RANDALL GEO N • 277-8020

65

SALISBURY DR -FROM ENCINO AV WEST AND SOUTHEASTERLY 1 WEST OF ENCINO AV

2257 ETHRIDGE S S 278-7951
2263 KELLER RICHD F JR • 278-7757
2270 MURPHY HARWOOD S • 278-7945
2271 CHASE ARTH W JR • 278-8519
2278 SCHMIDT JAMES 278-7605
2287 GABER ROBT W
2290 NASH SHEPARD K JR • 278-2192
2295 BELCHER SYLVESTER A 278-0147
2307 VACANT
2312 REYNOLDS WM L • 278-6279
2317 BRANDT RICHD E • 278-7915
2322 PEYER HAROLD H • 278-7864
2327 ANDERSON CLAIR K • 278-7608
2337 SMITH JOHN B •
2347 DE WITT CLARENCE J • 278-6850
2352 MYERS HOWARD L • 277-0932
2357 RAMSEY CLEO F • 277-6859
2367 QUINN JACK Q 278-8668
2383 MC NEIGHT THOS E • 278-6663
2392 HOLLOWELL LLOYD E • 278-7966

69

SALIZAR ST -FROM AUBURNDALE EAST

6695 GODWIN JAMES H • 277-3363
6702 TURKEN JULIUS J • 277-9800
6709 SANDLER HERBERT E • 278-5412
6714 VAUGHN JOHN H • 278-8408
6719 BONNEMA ORVILLE • 277-1187
6726 OTSUJI HARUHIKO 278-3343
6733 STRATTON RAYMOND E • 278-4157
6738 LUXFORD HARRY J
6739 RILEY RAYMOND L
6747 SMITH WM P • 278-0181
6750 SMITH KENNETH L 278-4533
6759 HUBBARD KENNETH 277-9046
6762 STERLING WM M • 278-7162
7127 WARNOCK LEWIS W • 278-1162
7128 JOHNSON WM L • 278-0315
7135 DENTT FRANK S • 278-1147
7136 COWIE ANDREW H • 278-0078
7143 VAN CLEAVE JACK M •
7144 LOWE ARTH E • 277-6301
---ARNSTRONG ST INTERSECTS
7151 FOLEY ROBT N • 279-2732
7152 FLYNN SAML C 279-0727
7159 MEISTER JANE MRS •
7160 VACANT
7167 VACANT
7168 SMIOT ROBT L • 278-9868
7175 LINGEL FRANCIS F •
7176 KILPATRICK EDWIN D REV 277-9722
7184 MC DONALD PHILLIP • 277-4349
7401 MOO ROBT F • 277-5010
7411 VACANT
7415 DOUGLAS CLIFFORD G •
7419 LAMB DONALD W 277-5303
7423 FORD JOSEPH L • 277-8739
7426 ROBERTS ARON • 277-0711
7427 WILSON ROBT F • 278-0963
7431 TERRELL ABBIE L • 278-0644
7432 HOSTEDER DANL 277-4684
7435 CRAFT EARL D • 277-3289
7441 BROWN CLARENCE E • 277-4855
7447 SAWATZKI ROSE MRS • 278-0897
7451 COLLINS J L 278-2556
7457 VACANT
7461 COOK ELMER H •
7465 DELGADILLO GREGORIO • 277-1510
7468 MARTIN MARVIN P • 278-7691
7469 PIPER ROSS H • 277-4880
7475 VACANT
7476 VAN BOXTEL NICHOLAS M • 277-7977
7479 FREY DONALD G • 277-8146
7482 MINTO JOSEPH P • 277-4275
7485 DYER ROBT R • 278-1065
7505 STEMEN QUINN F • 278-0646
7517 BURGI CHARLES E • 278-0648
7529 VACANT
7541 WYNNS ROBT C • 277-8459
7553 SCHWARTZ ALF S •
7565 KONOLD JAMES H • 277-8458

208

SALTA PL -FROM CHOLLAS PARKWAY NORTH 1 WEST OF BOYCE LA

3302 WITTER JOHN C • 281-1223
3303 BULTEZ LOUIS R • 283-5206
3312 KOZAK EDW P • 283-4076
3315 CLELLAND JAMES • 284-3126
3322 RICHMOND BURTON I • 284-5581
3325 GESSNER ANDREW M • 284-5287

265

SANOSET AV -FROM 4225 SAGINAW AV NORTH AND EAST 1 BLK EAST OF KLEEFELD AV

4204 VACANT
4212 HELM WOODROW A
4215 LAWRENCE DAWN
4220 THURMAN RICHD L • 273-8925
4225 EVANS JAMES H • 273-0841
4228 FLEMMING JAMES R
4235 FARMER THOS A • 274-5961
4236 REID WILLIE B • 273-1368
4244 BOWMAN JAMES K
4245 MARTINEZ CIPRIANO • 273-6257
4255 DECKER DARRELL D • 273-1284
4260 VACANT
4265 MYERS JACQUELINE C MRS • 274-6441
4268 BREWSTER WM L 273-9559
4275 DILL WM G • 274-0871
4276 PARKER PAUL D • 274-3537
4285 FORTIER E RUSSELL • 274-3437
4286 NYGARD CHRIS • 273-3952
4304 HOGUE ROBT L • 273-2223
4311 WEITKNECHT WM K • 273-3841
4314 SMICK DONALD C • 273-9379
4324 ALLEN CAROL MRS •
4325 ROCHE ROBT J • 273-5403
4334 VACANT
4335 SHULTZ WM J • 273-8624
4344 STEARNS REILLY P •
4345 VAN COURT ROBT R 274-7290
4354 BUSE ERNEST G •
4355 OCCHIPINTI CARL G • 273-1884
4364 VOLPICELLA FRANK D 273-4698
4365 GARBER WM L 274-1685
4374 ROBERTSON NOLAN E •
---KLEEFELD AV INTERSECTS
4403 CLASSEN HORACE E 273-9064
4404 PRESTON HARRY W • 274-1060
4414 ASHBY JOSEPH E JR 274-1536
4415 PROCHODA VASYL 274-4571
4424 ANDREWS BARBARA J MRS •
4425 STEINMETZ HARRY L • 273-7683

18

SAMPSON ST -FROM 250 S 28TH ST SOUTHWEST

206 TURNER JOHN C
222 BANKS ORA B MRS 234-1489
238 PENDLETON RICHMOND 234-4964
241 MARSHALL THOS W
244 DAVIS EVELYN L MRS • 233-8714
---FRANKLIN AV INTERSECTS
314 BURTON PAUL • 232-1340
315 AIKENS ROBT 233-3691
319 VACANT
323 ANDREWS ROBT A 234-7824
324 WILBOURN JAMES
325 DORSEY WILLIE 239-1898
328 HINKLE JOSIE MRS
ROSS SHANNON 239-2719
339 VACANT
---OCEAN VIEW BLVD INTERSECTS
412 WHITMORE APARTMENTS (RENTAL OFC) 232-2856
414 ALLIE'S BEAUTY SHOP 232-0528
414½ WELLS EUG 233-3271
415 MARMON INEZ MRS
416 BENTON ALLIE MRS
418 WHITMORE'S U-WASH
419 JONES CAROLYNN MRS 234-6835
420 JONES ALICE M MRS 233-8400
JONES DESSIE M MRS
431 OWENS JOHN L • 232-1575
441 ROUNDTREE MARY MRS • 234-5505
---HARRISON AV INTERSECTS
515 THOMAS OTIS REV • 239-2792
516 HICKS WM H • 234-1738
518 BUGGS LENA MRS
BUGGS ALMA
520 LONG DAVID S 234-3677
522 VACANT
528 MC CLENNAN ROSA L MRS • 233-8790
CALLOWAY CLARA MRS
529 AMANCIO LEONCIO
534 MOORE THELMA MRS • 239-3561
546 MARTIN'S MARKET GRO 232-0584
546½ MOSLEY FLORIDA L MRS 232-6098
---IRVING AV INTERSECTS
603 BISHOP ANNIE REV 239-5669
604 CAMACHO JESUS • 233-0430
609 MEEKS NEWTON
610 BLACK BERRETA M MRS •
611 VACANT
615 CUMMINGS ERNEST 234-2869
616 ECKLEY ROBT
619 VACANT
620 JONES DONALD B 232-5478
621 CHRISS CAREY
622 BONNER DOLORES MRS
623 EVANS JESSIE B
625 MOORE ALICE MRS 233-6054
627 GURST GEORGINE 239-7668
629 GARRISON BEAUMAND D • 233-0642
632 BARNES GEO
REAR BOLDEN WM •
635 TYLER BERTHA MRS • 239-7939
644 LEE JOHN A • 234-4298
645 VACANT
---JULIAN AV INTERSECTS
704 HOLLMAN BERNARDO M • 233-1429
717 VIDINA MARIO
721 BACA PATK K • 239-2975
724 SMITH RUTH MRS 239-0053
740 REYES TIOTEA G MRS 239-1621

16

---KEARNEY AV INTERSECTS
---LOGAN AV INTERSECTS
906 CANEDO ENRIQUE
908 TORRES JUAN
910 CANEDO MARIA S MRS 233-8525
911 VACANT
912 GARCIA EDUARDO E 232-5532
914 APARTMENTS
1 NEDRANO HUMBERTO 233-8568
2 VACANT
3 VACANT
4 HINZMAN MARIA MRS
5 MONTEJANO TINA 233-7928
915 CORREA JESUS
924 VACANT
930 SALAZAR ALEJANDRO
934 MARTINEZ JOSE M
936 GARCIA OPHELIA MRS
942 AGUIRRE GUADALUPE MRS
---NATIONAL AV INTERSECTS
1016 ROMAN FLOYD O 233-7074
1018 GRIFFIN MARY MRS
1020 VACANT
1022 RIALS MARY MRS
1027 RODRIGUES MANUEL JR 233-3267
1037 YBARRA ALFONSO S • 239-1902
1043 REYNA MIGUEL • 232-8080
---NEWTON AV INTERSECTS
---MAIN ST INTERSECTS

905

---COLON AV INTERSECTS
1304 VOLKER WM & CO OF LOS ANGELES INC FL COVERING 239-9205
1347 INTERNATIONAL FORWARDING CO 233-6706
UNIVERSAL CARLOADING & DISTRIBUTING CO FORWARDING AGT 234-6464
WESTERN PARCEL SERVICE (CARTAGE DIV) 232-6834
1348 SAN DIEGO GAS & ELECTRIC CO (SILVER GATE STATION) POWER STA
---E BELT ST INTERSECTS
1401 CARTER DELG OIL CO WHOLESALE OIL 233-7691
CONCOURSE PRINTERS 234-7775
FT SAN DIEGO MARINE CONSTRUCTION CO SHIPBLDRS 239-8051
STAR & CRESCENT FERRY CO SHIP BLDRS 234-4111

66

SAN ALBERTO WAY -FROM EUCLID NORTHEAST NEAR SANTA MARIA

311 WALTERS CARLTON • 264-1442
312 CLARK JOHN M • 262-7018
317 TAITANO GUILLERMO T • 264-8215
320 GRAY MAURICE 264-4223
323 GARRIDA JOSE M • 264-7221
327 JOHNSON JAMES T • 262-1830
332 MUNOZ DAVID M • 264-5974
335 SAMBRANO ANDREW A • 264-1881
341 ROJ IVAN • 262-6283
342 JOHNSON EDDIE L 264-6183

TP | Adjoining | Source

- | ✓ | R. L. Polk & Co.

BAY FRONT ST 1961

BATES—Contd
Apartments—Contd
3 Vacant
4 *Dion Edw W*
5728 Apartments
1 Swedburg Frank W JU2-8074
2 Bain Frank E
3 Vacant
4 Harrison Dorothy G JU3-6390
5 Monson Chas H JU2-5337
6 *Hunold Jos*
7 Vacant
8 Reno Joy Mrs JU2-6006
9 Page Colette M Mrs JU3-1451
10 Williams Larry O
11 Vacant
12 Vacant
5729 Apartments
1 Glenn Saml D
2 Uyeda Leslie S JU2-5908
3 Vacant
4 Vacant
5731 Apartments
1 Zurline Verda Mrs JU2-3418
2 Hancock Lloyd C
3 Vacant
4 Vacant
5734 Apartments
1 Munoz Francisco
2 Benson Martin D JU3-6530
3 Vacant
4 Clairmont Edw R
5 Packwood Olina T Mrs JU3-0526
6 Hamilton Edw S
7 Boyko Morris
8 Heindal Clarence O JU3-5312
9 Strahl Melvin JU3-2655
10 Stratton Richd F JU2-0206
11 Bitts Paul D JU3-5830
12 Vacant
5737 Apartments
1 Swartwood Bryan JU3-5063
2 Rathbun Raymond C
3 Ferguson Lawrence L JU3-7574
4 *Jarmen Therel*
5738 Apartments
1 Vacant
2 *Myers Wallace R*
3 Jensen Fred S
4 Moss Marjorie Mrs
5739 Apartments
1 Tichenor Chas D
2 Cornell Robt
3 Gall Edw A
4 Vacant
5740 Apartments
1 Dodd Myrta A Mrs JU2-1457
2 *Soler Adelaide*
3 Sebastian Marciano JU2-0941
4 Vacant
5741 Apartments
1 Vacant
2 Kelly David G
3 Howard Patricia L Mrs JU3-7962
4 *Ferris Geo J JU3-2677*
5742 Apartments
1 Mitchel Aloia JU3-7884
2 *Nott Howard F JU3-7387*
3 Carrizosa Fernando JU3-6582
4 Udvarhelyi Anthony JU2-7467
5743 Apartments
1 Cooke Robt M JU2-1651
2 Hackett Joseph K JU3-7384
3 Vacant
4 *Mansbacher Fred E JU3-2460*
5744 Apartments
1 Waldrip Gerald E JU2-4149
2 Beckett Alvin A
3 Gada Herman
4 Polak Herman JU3-1646
5745 Apartments
1 Barbour Wm JU3-2034
2 Campbell Marie Mrs
3 Royston Chester L JU3-3541
4 *Litten Charley T JU3-7547*
5746 Apartments
1 Rikkers Richd A JU3-5894
2 *Callian Jas*
3 Vacant
4 Bates Walter E JU3-1758
5747 Apartments
1 Vacant
2 Durrance Wm V JU2-2843
3 Minshall Dawn Mrs
4 *Breen Vance M*
5748 Apartments
1 Kellner John R JU3-3366
2 Schneider John JU3-2824
3 Varney Allen M JU2-8964
4 Martin Walter L JU2-8511
5749 Apartments
1 Dray Marlene J Mrs JU3-7225
2 Upham Joan E Mrs JU3-3373
3 Rowland Irwin L JU3-0325
4 Scott Barbara L Mrs JU3-1282

63
BATETA—From Armstrong northeast, 1 north of Salizar
7123 Shockley Wm H ◎ BR7-1748
7148 Tannahill Vaughn N ◎ BR7-2987
7172 Sparks Donald L ◎ BR7-6614
7179 Vacant
7402 *Glithero John F* ◎ BR7-1421
7410 Jones Wm H ◎ BR7-7220
7416 Wilson Francis M BR8-2173
7422 Greenleese Wm E ◎ BR8-2167
7423 Dunaway Wm F ◎
7429 Vacant
7430 Franz Harold E ◎ BR7-1220
7436 *Kamin Leo G* ◎ BR8-0529
7437 Coletti Tullio ◎ BR7-6120
7442 Guiness Christian ◎ BR7-8017
7443 Diaz Tony ◎ BR7-6310
7448 Christopher Henry ◎ BR7-0460
7449 Donahoo Wilburn G ◎ BR7-8127
7454 Cook Thos J ◎ BR7-5943
7455 Santiago Danl ◎
7460 Kelly Wm C ◎ BR7-3129
7461 Slifer Chas V ◎ BR7-2386
7468 Smith Gerald V ◎ BR7-7300
7469 Prim Jas T ◎ BR8-0259
7474 Adams Jack S ◎ BR7-0507
7475 Barker Geo D ◎ BR7-1204

287
BAXTER—From Conrad dr north, 2 east of Frink av
5010 DeBolt Victor H ◎ BR3-1011
5011 Cox Wm M ◎ BR3-4369
5018 Jue Henry ◎ BR3-4535
5025 Gonzalez Hector ◎ BR3-1943
5026 Luther Jas A ◎ BR3-8361
5034 Cristman Dixie Mrs ◎ BR3-6502
5035 Ecklund Darel F ◎ BR3-2860
5042 Crinklaw Richd P ◎ BR3-1090
5043 McCreary Floyd N ◎ BR3-3720
5050 Parker Ernest R ◎ BR3-2534
5056 Durham Mary C Mrs ◎ BR3-8993
5061 Gaddy Lloyd A ◎
5062 McClain Claude C
5068 Vacant
5069 Rheuark Jas W ◎ BR3-2022
5074 Bohlman Sylvan H ◎ BR3-0787
5075 Hemley Thos H ◎ BR4-0319
5080 Hawhee Gordon W ◎ BR3-5691
5081 Vacant
5086 Vacant
5087 *Chamberlain Waldo L* ◎ BR3-4277
5094 Knepple Kenneth F ◎ BR3-4358
5095 Hamlin Richd L ◎ BR3-4437
Lehrer dr intersects
5102 Vacant
5111 Simons Virgil D ◎ BR3-1613
5112 Vacant
5120 Jones Saml N ◎ BR3-6125
5121 Stagner Coy S ◎ BR3-6123
5131 Schoonover Everett O ◎ BR3-1690
5141 *Holmes Kenneth W ◎ BR3-8692*

185
BAY FRONT—From Sigsbee southwest to Sampson
1995 Natl Marine Terminal Inc BE2-7311
Westgate-Cal Corp canners BE2-7311
Westgate Cal Products Inc canners BE2-7311

17
BAY VIEW COURT—From 1849 Lyndon rd south
4047 Hamill Alice E ◎ CY6-6451
4051 Rocle Louise Mrs ◎ CY5-6122

83
BAYARD—From 1 blk south of 900 Pacific Beach dr north
4005 Scripps Thos O ◎ HU8-2633
4025 Criscola Anthony P ◎ *HU8-0355*
Pacific Beach dr intersects
4104 Commerford J J
4110 *Beckett Herbert L* ◎ HU8-8120
4120 Weinberger Richd C ◎ HU8-2083
4121 Tichenor Alice L Mrs ◎ HU8-4304
4127 Tammen Billy F ◎ HU8-9040
4138 Tellous Harold O ◎ HU8-2238
Oliver av intersects
4204 Schuster Albert M ◎ HU8-3672
4205 *Gelardi Chas W* ◎ HU8-2219
4211 Bowman John P ◎ HU8-8230
4212 Schaperkotter Marshal C ◎ HU8-6307
4218 Szalonek Caroline Mrs ◎ HU8-0372
4225 Gray Ernest S ◎ HU8-4166
4228 Dunbar Palmer H ◎ HU8-4122
4236 Whitman Jack H ◎ HU8-5635
4239 *Sugita Sam I* ◎ HU8-0162
4242 Swift Russell W ◎ HU8-4316
Reed intersects
4277 Bonczyk Arth J HU8-5315
4278 Vacant
4280 Lang Ernest
4282 Moudy Amos A HU8-0709
4284 Vacant
4285 *Johnson Georgina P Mrs HU8-5849*
4287 Ramsey Joan Mrs
4289 Pourie Wm D HU8-4297
Thomas av intersects
4310 Ryan Stanley W HU8-6731
4316 Christensen Fredk H ◎
4330 Vacant
4332 Vacant
4334 Denton Kenneth ◎ HU8-7511
4338 Vacant
4340 Segars Jon
4342 Vacant
4344 Vacant
4346 Roper C W
4348 *Vante Dave*
Grand av intersects
4406 Drake Leonard J Realtor HU8-2886
4408 Valon's alterations HU8-9988
4412 Marie's Re-Sale Shop used clo HU8-2406
4414 Coast Draperies HU8-7551
4425 Vacant
4435 Schmitz Mildred
4441 Gerock John S jr HU8-3532
Hornblend intersects
Garnet intersects
4516 Bailey Carl
4518 Moose Geo A HU8-6207
4617 *Anthony Jas C ◎ HU8-2952*
Felspar intersects
4627 Waibel Lucille A Mrs HU8-2861
4629 Scott Earl
4630 Carter Jack R ◎ HU8-9873
4631 Eis Gordon HU8-3504
4633 Spitsky Alois HU8-1305
4635 *Halleman A*
4637 Kilgore Mary
4639 Stonecipher Gifford G ◎ HU8-0843
Emerald intersects
4650 Vacant
4652 Humburg Marilyn HU8-3368
4654 Ramsay Joanne Mrs
4655 Hicks Robt L HU8-0865
4656 Kaup Gertrude A HU8-5031
4657 Sullivan Mary A
4659 Vacant
4661 Henderson Steven
4663 Leak Osborn
4679 Vacant
4682 Hamilton Wm E HU8-5230
4684 McEneaney James F HU8-2476
4686 Timmons Beth Mrs HU8-1646
4688 *Corey Joseph J*

87
Diamond intersects
4725 Blatt Rosalie T HU8-9840
4726 Jones Grover HU8-9621
4727 Mertel Anthony C
4728 Morgan Thurman HU8-3826
4737 *Mann Ruby*
4739 Hammond Bessie Mrs ◎ HU8-4442
4741 Larkin Wm C HU8-7312
Missouri intersects
4758 Wilson Velda M Mrs HU8-1887
4765 Erickson Alvina Mrs ◎
4766 Vacant
4776 *Trenfel Jacqueline T Mrs HU8-6693*
4777 LaRochelle Jas V ◎ HU8-2669
4780 Bollinger Lonna G Mrs HU8-0017
Chalcedony intersects
4815 Smith Albert F jr ◎ HU8-6163
4824 McAndrews Earl F HU8-1362
4828 Sedlak John J ◎ HU8-9443
4827 *Aldrich Carroll E ◎ HU8-5645*
Law intersects
Beryl intersects
4916 Balzer John J ◎ HU8-3905
4917 Spies Rosalie Mrs ◎ HU8-9604
4926 Riechevs Henry
4935 Bakken E M Rev ◎ HU8-3063
rear Yee Dickman
4937 Talley Sandra Mrs
Wilbur intersects
4964 *Collanns Frank G* ◎ HU8-0070
Loring intersects
5018 Curran Edith Mrs ◎
5027 Goodrich Roland W HU8-6570
5028 Sludzinski Wm J ◎ HU8-8141
5029 Anderson Roger E HU8-7880
Opal intersects
5075 *Flinn David* ◎ HU8-0036
5076 Rochow Randall F
5079 Vacant
5081 True Paul E jr HU8-6911
Tourmaline intersects
5116 LaFonta Sidney A ◎ HU8-6248
5128 Cotter Kenneth F HU8-5087
5130 *Yeoman Shirley A Mrs*
5134 Vacant
5138 Wahl Isabel HU8-3667
Sapphire intersects
5150 McLaughlin Nancy J HU8-3757
Munson Edna F
Young Robin A HU8-7445
5160 Maczorowski Floy H Mrs HU8-1762
5160½ Vacant
5161 Vacant
5162 *Armstrong Albert L*

BELT ST E 1961

Constant Since 1938
1607 UNIVERSITY AVE. SAN DIEGO 3 TEL. CYpress 8-1168

BELLEVUE AV (LaJolla)—Contd
5624 Gross Maurice C @ GL4-3663
5627 Vacant
5630 Blake L Don GL5-0205
5633 Bennett Mary E Mrs @ GL9-3179
5636 Johns James F GL9-2798
5637 Harvey Mary E @ GL4-1943
5641 Hall Arvin F @ mus tchr GL9-5151
5642 Bacchus Wilfred A @ GL4-7598
5645 Riggs Thos M @ GL4-7003
5650 Schmitz Nicholas M @ GL4-1288
5651 Haven Franklin D GL4-6329
5654 Ives Clifford A @ GL4-5730
5655 Pond Carl C @ GL4-6753
5659 Mehas John G @ GL4-0887
5660 Hackett Helen B Mrs GL4-0908
5664 Ritchart Roy C GL4-5047
5669 Vogler Wm H II GL4-3693
5672 Tomlinson Bruce @ GL9-5426
5675 Buck Fredk W @ GL4-7335
5678 Armour Robt @ GL4-6615
5681 Reiner Chas @ GL4-7325
Bird Rock av intersects
5705 Shifflett Carl H @ GL4-7254
5711 Harmon Annette H Mrs @ GL4-5987
5712 Harmeling John L @ GL4-5239
5720 Burriesci Robt W @ GL4-1556
5721 Kelly Marjorie G Mrs @ GL4-7076
5726 Downey Frank J @ GL4-3853
5727 Frankowski Joseph @ GL4-0824
5731 Jesse Robt W @ GL4-3575
5732 Bartlett Grant R @ GL4-6205
5737 Klassen Lloyd J @ GL4-2387
5740 Olson Loyal H @ GL4-6698
5747 O'Neal Kenneth R @ GL4-0507
5752 Harding Howard C @ GL4-0264
5755 Palevsky Saml N GL9-5407
5761 Macurda Paul G @ GL4-0025
5762 Goodnough Ruth G Mrs @ GL4-2850
5769 Tyler Wilfred E @ GL4-7213
5776 Sabados Jos B @ GL4-7475
5777 Kelly Arth L @ GL4-7858
5783 Bessonette John W S @ GL4-1271
5784 Johnson Larry W @ GL4-4783
5787 McArthur Colin @ GL9-5388
5790 Dolle Chas L @ GL4-1650
5791 Kiely Jas P @ GL9-5072
5794 White Leo J @ GL9-2864
5795 Brantley Robt H @ GL4-4483
5798 Schultz Geo M GL9-3095
Camino de la Costa intersects

93

LaCanada intersects
5819 Carroll John W GL4-1508
5820 Vacant
5827 Clark E Putman @ GL4-5908
5828 No Return
5835 Steele Arnold O @ GL4-6992
rear Haggart John C GL9-1711
5836 Gross Max H GL9-2813
5903 Weigle Edw H @ GL4-4082
5906 Allen Robt R @ GL4-4412
5912 Hastings A Baird @ GL4-5160
5915 Seargeant John B @ GL4-5342
5920 Bouchard Geo @ GL9-2276
5921 Steckler Jesse R @ GL4-5320
5930 Gates Louisa Mrs @ GL4-4650
5931 Munson Thos A @ GL9-2522
5944 Vacant
5959 Munroe W Robt @ GL4-4155
6001 Sharp Madeleine N Mrs @ GL4-2742
6008 Johnson Leonard K Rev GL9-5875
6009 Hibbe Harper J @ GL4-5734
6017 Dittoe Frank A GL4-4673
6021 Fox Ruth Mrs @ GL4-7290
6030 Cooke Florence E @ GL4-1008
6036 Brink Raymond W @ GL4-1578
6046 Rez Anton G @ GL4-5728
Folsom dr ends
6080 Rauth Wm R jr GL4-1086
6085 Comstock Merrill @ GL4-5168
6091 Eichman Seymour @ GL4-1903
6097 McCarthy John A @ GL4-0619
Waverly av intersects

89

BELLEVUE PL (LaJolla)—From Bellevue av east, 1 south of Colima
751 Clark Vincent F @ HU8-9810
759 Myers Wm H @ HU8-4558
767 Walker James W W @ HU8-6409
777 Ormistof Rollin @ HU8-5813
785 Harrison Jean P @ HU8-8429
795 McNamara James J HU8-5126

120

BELLINGHAM AV—From junction of Wilson and Myrtle avs southeast
3551 Hall Martha @ AT4-4201
3580 Wnuk Thadeus @ AT1-5789
3591 Worthington Robt B AT2-6372
3675 Pedrin Rupert @ AT1-2750
3676 Wier John W @ AT1-8600
3678 Johnson Geo H
3679 Lantto Robt @ AT4-7833
3685 Lang Oscar
3696 McGee Mazie M Mrs @ AT2-7287

230

BELMONT AV—From E Mountain View dr east, 2 north of 3800 Adams av
3801 Vacant
3811 Adamson Mildred E Mrs @
3812 Calam Thos H @ AT2-0969
3819 Hinrichs Francisca M Mrs @ AT4-2033
3828 Babcock Joy M @ AT4-2126
3829 Erwine Saml D @ AT4-4080
3832 Lundgren Fred A
3839 Sexton Danl A @ AT4-9860
3844 Woodward E Paul @ AT2-2636
3853 Howard Alice L Mrs @ AT4-3205
3858 Ross Clarence B @ AT1-7074
3861 Burke Ernest R AT4-2817
3864 Vacant
3866 Sund Warren L @ AT1-3288
3867 Corby Elwood M @ AT4-8039
3875 Goss Walter
3876 Kohrs Lewis P @ AT1-0691

1B4

BELT EAST—From south of Crosby southeast
2031 Johnson Western Constructors marine BE8-8031
2095 Kelco Co (yd)
2145 Kelco Co (plant) BE2-1011
2295 Eis-Hokin & Galavan elec contrs BE4-6301
2305 Sou Cal Frt Lines BE4-8401
2315 Blue Fin Grill BE9-9610
Harbor dr intersects

1B4

BELT NORTH—From 100 West F north
Grape intersects
Hawthorn intersects

95

BELVEDERE (LaJolla)—From 3 blks west to 7050 LaJolla east
Neptune intersects
215 Morgenstern Herbert GL4-4759
221 Beachy Frances C Mrs @ GL4-3762
226 Morehead Harold L @ GL4-2035
Vista del Mar intersects
304 King A Florentine Mrs GL9-1124
324 Nestor John L @ GL9-5076
325 Laidlaw Ashton @ GL4-2939
329 Vacant
331 Mager Ernest @ GL4-1904
334 Moore Eliz D Mrs @ GL4-1989
338 Vacant
340 Degener Armin @ GL4-5010
341 Wikner E Gordon @ GL9-1041
351 McDougal Douglas C @ GL4-2076
358 Wishart Harriet @ GL4-6852
359 Bovard John F GL4-6484
369 Duckworth Hubert B @ GL4-1628
Minte Vista av intersects
402 Sweet Horace L @ GL4-1032
405 Spies Ada F Mrs @ GL4-7294
407 Murray Robt E jr @ GL4-4983
410 Ebert Howard P @
418 Beal John H @ GL4-3196
421 Baer Rita M Mrs GL9-1578
424 Powell J Osborne @ GL4-4240
431 Campbell Leroy F @ GL4-1530
439 Ledin Eric GL4-1455
440 Smith Harold M @ GL4-2552
442 Crutchfield Beatrice T Mrs GL4-1439
447 Sinclair Mabel J Mrs @ GL4-6575
450 Mattson Philip T jr @ GL4-6319
458 Richardson Florence Mrs GL4-0211
459 Smith Norman M @ GL9-2460
460 Edgar Lawrence E GL9-2456
461 Smith Rosa Mrs @
462 McEwan Alex S GL4-5977
464 Gayman Wendell R
469 Valentine E Bert GL4-5540
LaJolla intersects

63

BEN—From Beagle north, 1 east of Belford
3501 Roosa Wm F @ BR7-9686
3511 Zdvorak Edw H @ BR7-5082
3512 Ellington Glenn R @ BR8-3121
3521 Donnelly Robt F @ BR8-5804
3522 White Edw F @ BR8-0852
3531 Coath Robt L @ BR7-9668
3532 Johnson James N @ BR7-2494
3541 Kamerling Russell C @ BR7-9748
3542 Ludlan Richd H @ BR8-0409
3551 Jones Donald E @ BR7-9745
3552 Walin Geo E @ BR8-0773
3561 McDaniel Donald R @ BR7-9869
3562 McCurdy Bob C @ BR7-3923
3571 Mapel Gordon B @
3572 Caulter Donald C @ BR8-0122
3581 Davenport Gerald D @ BR8-1253
3582 Schmitten Marlin J @ BR8-5566
3591 Dunlap Robt D @ BR7-9686
3592 Perkins James E @ BR8-8011
3613 Fickes Vernon S @ BR7-9696
3614 Dopre Arth @
3624 Horsley Jere B @ BR8-1338
3633 Harley Robt W @ BR8-0821
3634 Drury Edw A BR8-0803
3643 Kaneen Edw M @ BR7-9667
3644 Vacant
3653 Kinman Kenneth C @ BR7-8695
3654 Miller Howard R @ BR8-4016
3663 Shive James V @ BR7-8144
3664 Guillory Benj L @ BR7-9693
3673 Burger Edw L @ BR7-1303
3674 Sherer Francis P @
3683 Jenson Darrol C @ BR7-9767
3684 Gordon James W @ BR8-0850
3695 Manning Edgar M @ BR7-7641
3696 Ragozzino Gerald @
3701 Floyd Albert T @ BR7-7482
3702 Beaubouef Ivy D @ BR7-7475
3707 Reese Bryan G @ BR7-1032
3708 Maiers Edw @ BR7-1027
3714 Zuist John W @ BR7-6503
3715 Perry Wayne A @ BR7-6421
3720 Ribas Pete P @ BR7-1203
3721 Minter Robt E @ BR7-0856
3727 Langston C Lyle @ BR7-5184
3730 Wray Francis M @ BR7-8136
3733 Mason John P @ BR7-4056
3739 Beebe Jas E @ BR7-6558
3740 Nerling Mervin A @ BR7-7476
3746 Hoaglin John E @
3801 Freme Miles G @ BR7-2674
3809 Kantro Henry @ BR7-3252
3810 Powell Danl G @ BR7-6870
3817 Cates Richd F @ BR7-5545
3818 Roberson Harold J @ BR7-1984
3825 Dunlavey Glenn O @ BR8-0254
3826 Ellison Chas E @ BR8-0764
3833 Banks Chas E @ BR7-2064
3834 Goodman Wm B @ BR7-3053
3842 Photinos James O @ BR7-4647
3845 Bromann Wm F @ BR7-3974
3850 Vacant
3856 Ray J D @ BR7-3513
3861 Peacock Gail D @ BR7-6854
3864 Ogden Alan D @ BR7-1795
3869 Steidl Elwin J @ BR7-1355
3872 Smith Steve @ BR7-4825
3880 Baldridge Wilbert L @ BR7-8349
3883 Sellers Raymond B @ BR7-8602
3889 Overway Stanley M @ BR7-1373
3895 Salazar Enrique H @ BR7-4184

129

BENICIA—From 2 blks south of 5500 Gaines north
1000 S D Gas & Elec Co sub sta
1055 Orcutt Hazel M Mrs @ CY5-9986
1133 McMillan Bob CY5-6779
1213 Vacant
1233 Archer Ralph @ CY8-7596
1235 Hopewell Clarence M @ CY5-9193
1236 Clark John E @ CY5-5432
1266 Etheridge Jack D CY5-0347
1310 Vacant

196

BENSON AV—From 61st east, 4 south of Imperial av
6130 Neal Wayne C @ CO4-1715
6145 Nishii Guzei E CO2-2234
6611 Beam Henry @ CO4-1145
6660 Sells Robt @ CO4-4717
6681 Vance Rolland L @ CO4-9010
Ritche intersects
6741 Pifari Edw @ CO2-5244

230

BENTON PL—From 3550 E Mountain View dr north
5105 Kendrick Francis A @ AT4-8834

SAMPSON ST 1961

SALEM CT—Contd

816½ Hook Robt F
821 Murray Ellen M ® HU8-5652
822 Key Robt E HU8-7040
826 Vacant
826½ Hull Mattie A HU8-7937
828 Dake Chauncey J ®
Bayside la intersects
831 Wright Margt C Mrs ®
837 Urbank Lloyd S HU8-4465
841 Vacant

63

SALERNO—From Armstrong east, 1 north of Batista

7401 Edmondson Wm B ® BR7-5790
7409 Degler Alf E ® BR7-3689
7416 Reina Vincent S ® BR7-8062
7417 Hall Worth W ® BR7-3315
7425 Wilson Frank M ®
7426 Beckner Robt A ® BR7-5819
7433 Lease Milton R ® BR7-8109
7434 Parker John T BR8-6896
7441 Carpenter Keith M ® BR7-2413
7442 Calhoun Fenton E ®
7449 Longley Frank ®
7450 Osterman Bernard A ® BR7-6615
7457 Gordon Jas E ® BR7-7853
7465 Horky Eug C ® BR7-8001
7466 *Lucks Jack E ® BR7-8083*
7471 Cwianz Stanley V
7473 Finch Everett E ® GR7-8076
7474 Mendiola Louis L ® BR7-7729
7481 Wilson Ralph ®
7482 Russell Jos ® BR7-4498
7492 Randall Geo ®

65

SALISBURY DRIVE—From Encino av west and southeasterly, 1 west of Encino av

2257 *Morrow Alf ®*
2263 Keller Richd F jr ® BR8-7757
2270 Murphy Harwood S ® BR8-7945
2271 Vacant
2280 Under constn
2287 Vacant
2290 Nash Shepard K jr ® BR8-2192
2295 Vacant
2307 Vacant
2312 Vacant
2317 Berg Richd C ® BR8-4802
2322 Peyer Harold H ® BR8-7864
2327 Meyer Wm F ® BR8-1059
2337 Vacant
2347 Vacant
2352 Vacant
2357 Vacant
2367 Vacant
2383 Vacant
2392 Vacant

63

SALIZAR—From Armstrong east, 1 south of Batista

7144 Vacant
7401 Wood Robt F ® BR7-5010
7407 Turley Chas R ® BR7-8256
7411 Broecker Harold F ® BR7-5609
7415 Douglas Clifford G ® BR8-0210
7419 Duvall C Walter ® BR7-5234
7423 Ford Jos L ® BR7-8738
7426 Roberts Arron ® BR7-0711
7427 Vacant
7431 Terrell Abbie L ® BR8-0644
7432 Padilla Lewis R ® BR7-4684
7435 Craft Earl D ® BR7-3289
7441 Brown Clarence E ® BR7-4855
7447 Sawatski Rose Mrs ® BR8-0897
7451 Upham Peter W ® BR7-8838
7457 Lintz Hubert K BR8-8955
7461 Cook Elmer H ®
7465 Wurzel John F ® BR7-2895
7568 Campbell Buford W ® BR7-7981
7469 Piper Ross H ®
7475 Conwell Frank R ® BR7-3930
7476 *Van Boxtel Nicholas M ® BR7-7977*
7478 Kirby Paul D ® BR8-1029
7482 Minto Jos P ® BR7-4275
7485 Dyer Robt R ® BR8-5997

208

SALTA PLACE—From Chollas Parkway north, 1 west of Boyce la

3302 Vacant
3303 Vacant
3312 Kozak Edw P ® AT3-4076
3315 *Clelland James ® AT4-3126*
3322 Berry Joe H ® AT2-2754
3325 Gessner Andrew M ® AT4-5287

265

SAMOSET AV—From 4225 Saginaw av north and east, 1 blk east of Kleefeld av

4204 Vacant
4212 Ulrich John F BR4-5694
4215 Vacant
4220 Rushing Billy BR4-4059
4225 *Evans Jas H ® BR3-0841*
4228 Walker Chester R ® BR3-1505
4235 Strever Harold E ® BR4-2752
4236 Reid Willie B ® BR3-1678
4244 Ballard David A BR4-0896
4245 Martinez Cipriano ® BR3-6257
4255 *Decker Darrell D ® BR3-1284*
4260 Powell Anna E Mrs ® BR3-0645
4265 Vacant
4268 Vacant
4275 Dill Wm G ® BR3-5545
4276 Vacant
4285 Fortier E Russell ® BR4-3437
4286 Nygard Chris ® BR3-3952
4304 Hogue Robt L BR3-2223
4311 Cunningham James L ® BR3-3841
4314 Rhoades Delmar E ® BR3-7105
4324 Shipes Laura V Mrs ® BR3-1918
4325 Powers Lew ® BR3-3698
4334 Ulrich Elmer W ® BR3-6868
4335 Cihak Rudolph J ® BR3-7793
4334 McGirk Dewey W ® BR3-3128
4345 Vacant
4354 *Lucas Clarence L ® BR3-3358*
4355 Occhipinti Carl G ® GR3-1079
4364 Vacant
4365 Robertson Nolan E BR3-4691
Kleefeld av intersects
4403 Merrick Francis ® BR4-0571
4404 Galyardt Dave jr BR4-3071
4414 Oswood Jay
4415 Coleman Emmett BR4-0308
4424 Runyan Henry H jr ® BR3-0239
4425 Richards Jas K ® BR3-1550

18

SAMPSON—From 250 S 28th southwest

206 Hoyle LeRoy
222 Swajax Carlos
238 Moore Elmer E BE2-3565
241 *Marshall Thos W*
244 Jones Willie BE4-5287
Franklin av intersects
314 Burton Paul ® BE3-5616
315 Phelps Robt F ® BE3-0892
319 Clayton Augusta Mrs ® BE2-2751
323 Andrews Robt ® BE3-1547
324 Taylor Hugh ® BE3-0370
325 Dorsey Willie BE9-3593
328 Mundy Thos J BE2-3732
Rodriquez John B Rev
339 *Lacey Odessa H*
Ocean View blvd intersects
414 Allie's Beauty Shop BE2-0528
414½ Collins Alton W BE4-8605
415 Parker Otto BE9-6586
416 Benton Ardie Mrs BE4-1042
418 Whitmore Apts (rental ofc) BE2-2856
419 Henton Thos
420 Jones Alice M Mrs BE3-8400
431 Owens John L ® BE2-1575
441 Roundtree John E ® BE4-5505
Harrison av intersects
515 Thomas Otis Rev ® BE9-2792
516 Hicks Wm H ® BE9-6768
518 Rivers Sherlene
520 Roberts Marie Mrs
522 Horn Mayron Mrs
528 *McClennan Rosa L Mrs ® BE3-8790*
529 Galvas Manuel BE9-5446
534 Moore Thelma Mrs ® BE9-3561
546 Martin's Mkt gro BE2-0584
Guerra John
Irving av intersects
603 Vacant
604 Camacho Jesus ® BE3-5516
609 Baca Romaldo D BE4-6904
610 Black Berreta M Mrs ® BE9-1612
611 Castro Andres BE9-2794
615 Gurst Georgine BE9-7668
616 Nemrod Ludy Mrs
619 Barnes Clifton
620 Vacant
621 Vacant
622 Lopez Naomi Mrs ® BE9-4888
623 Vacant
627 Carnest Claude ® BE4-2672
629 Garrison Beaumand D ® BE3-0642
632 Watson Bertha Mrs BE9-1444
rear Boden Wm T ®
632½ Hewett James
635 Tyler Bertha Mrs ® BE9-7939
644 Lee John A ® BE4-4293
645 Vacant
Julian av intersects
704 Hollman Bernard M ® BE3-1429
717 Garcia Raymond BE9-9510
721 Baca Patk ® BE9-2975
724 Vacant
740 Johnson Willie Mrs

16

Kearney av intersects
Logan av intersects
906 Luna Robt BE9-4680
908 Vacant
910 Camacho Florencia BE4-1465
911 Vacant
912 Picard Alf
914 **Apartments**
1 Nunez Marguerita BE9-1634
2 Duran Francisco
3 Coronado Natalia M Mrs
4 Hinzman Maria Mrs
5 Montejano Tina BE3-7928
Street continued
915 Sisson Rebecca G Mrs ® BE2-0866
924 Vacant
930 Uribe Robt D BE4-1906
934 Chism Louis M
938 Johnston Richd I
942 Ruiz Manuel
National av intersects
1016 Vacant
1018 Llamas Marguerita Mrs
1020 Gomez Rosa Mrs
1022 *Siordia Celia Mrs*
1027 Sousa Saul BE4-2977
1037 Acosta Aurora Mrs BE9-1902
1043 Reyna Miguel ® BE2-8080
Newton av intersects
Main intersects

1B5

Colon av intersects
1304 Volker Wm & Co of Los Angeles Inc fl coverings BE9-9205
1347 Intl Forwarding Co BE3-6706
Universal Carloading & Distr Co BE4-5464
Western Parcel Serv (cartage div) BE2-6834
1348 SD Gas & Elec Co (Silver Gate Station)
E Belt intersects
1401 Carter-Delg Oil Co BE3-7691
Car-Del Prntrs BE4-7775
ft San Diego Marine Construction Co BE9-8051

68

SAN ALBERTA WAY—From Euclid northeast, near Santa Maria

311 Walters Carlton ® CO4-1442
312 Clark John M ® CO2-7018
317 Taitano Guillermo T ® CO4-1722
320 Arreola Lucio ® CO4-5749
323 Garrido Jesus B ® CO4-7221
327 Vacant
332 Munoz David M ® CO4-5974
335 Sambrano Andrew A ® CO4-1881
341 *Ivan Roy ® CO2-6283*
342 McZeal Dennis ® CO2-6002
347 Gomez John F ® CO2-7404
403 Finney Ralph CO4-0469
404 Gamboa Sostenes C ® CO2-6354
411 Romero Gilbert ® CO4-7553
412 Covarrubias Rafael ® CO4-0874
419 Burris Ross C ® CO2-8917
420 Grant Carrie Mrs ® CO4-7736
427 Arreola Julio ® CO2-7106
428 Rodriguez Nellie M Mrs ® CO4-7663
433 DeLeon Thos
436 Muckelroy Ruby Mrs ® CO4-1809
439 No return
444 Dorrough Willie D ® CO2-8931

39

SAN ANTONIO AV—From 1 east of 300 Rosecrans north

302 Bowers Ralph W ® AC3-7660
Miller Ira A AC4-1844
305 Small Lucian K ® AC2-9200
310 Vacant
316 Reed Harry J ® AC2-5558
318 Salton Alan AC2-7893
320 Champion John G AC2-8519
326 Clarke Arth G AC2-7121
Kellogg intersects
352 Hohner Charlotte Mrs ®
362 Beach Clarence L AC2-4891
365 Clarke Jas M ® AC2-8848
368 Gruber Edw N ® AC3-8585
376 Reutinger Otto W ® AC3-8753
379 Spicer Raymond D jr ® AC2-9079
385 *Ellis Edna Mrs ® AC4-1385*
398 Stroman Wm A
Lawrence intersects
405 Small Elmer F ® AC2-1839
410 Benbough Harry L ® AC3-5379
416 Gilmour L Roy AC4-2048
418 Edmonds Thorpe L AC2-4682
420 Stoup Thos R AC3-1817
422 Stump Burling M AC2-8008
429 Seaton Thos A AC3-6692
430 Stamten Arth G AC3-8285
431 *French Janice E Mrs ® AC2-8349*
440 **Point La Plaza Apartments**
1 Danalis Mabel N ® AC4-5462
2 Vacant
3 Woodmansee Meda J Mrs ® AC3-8283
4 Scates Paul W ® AC3-1771
5 Wallace Myrtle Mrs ®
6 Everist Gail Mrs ® AC2-1210
7 Webber Frank D jr ® AC2-5562
5 Wallace Myrtle Mrs ®
8 Vacant

TP	Adjoining	Source
-	✓	R. L. Polk & Co. of California

BAY FRONT ST 1952

BARNARD—Contd
2849 Compton T J, B 1178
2851 Black F N
2853 Yoakum L L
2855 Sarenana H R
2857 Jones Early
2859 Craigen P M
2861 Hefley Esther Mrs, B 8594
2863 Vacant
2901 Poole A B
2902 Anderson A V
2903 Miles R S
2904 Bouton F E
2905 Brinkman M W
2906 Woodward G L
2907 Struve G R
2908 Williams C D
2908½ Combs W W
2910 Griffith W R jr
2911 Reinagel R R, B 2-1659
2912 Deese A I
2913 Steely H H, B 6815
2914 Bailey Frank jr B 7249
2915 Lawrence G F
2916 Hyman Attress, B 9045
2918 Davis Forrest E
2920 Leach B A, B 9087
2922 Thing R H
2924 Klingler K L
2926 Northrup J E
2928 Hobbs Garland
2930 Newell D B
2932 Lawton F J
2934 Ellis J S
2936 Sorric F M Mrs
2938 Tennyson R C, B 7255
2940 Masciotta Jos
2942 Volpe Owaldo
2944 Williams O L, B 2-3623
2946 Hawkins R E
2948 Carpenter O L
2950 Dodd J C
2952 Johnson Herman, B 5293
2954 Feirer N F, B 0733
2958 Schultz E C
2958 Gilmore Marjorie G
2960 Wiley J C
2962 McClellan A W, B 2-2543
2964 Masumoto S I, B 8349
2969 Barnard Elementary Sch B 7755

Chapman intersects

3002 Koukal Jos E
3004 Dragoo Jesse P
3006 Cunningham G L
3008 Porcher Leonard jr
3010 George T A
3012 Bernard E L
3014 Dunn D L
3016 Henson F B, B 2-3028
3018 Arvizu A L
3020 Bracey I M
3022 Jones C E, B 0713
3024 Ragan E F, B 6947
3026 Mason H B Mrs
3028 Dallas J L
3030 Fox Geo, B 2-2636
3032 Smith Gladis G
3034 Gunches Jos P
3036 Brizendine John E
3038 Crowder W V
3040 Aguilar Malley
3042 Whitlock Ralph
3044 Mendez Jesus
3046 Simonton R L, B 6241
3048 Barron G J
3050 Green G W
3051 Hill M M, B 2-1575
3052 Beckman W B, B 7685
3053 Castleberry J M
3054 Doshier W A
3055 Allbaugh W F, B 2-3932
3056 White N T
3057 Johnston K W, B 7990
3058 Patterson J M
3059 Long J J, B 2-2635
3060 Vacant
3061 Hoofard W C
3062 Murphy J M, B 0640
3063 Whalen J P
3064 LeGerrette J R, B 2-1386
3065 Samaniega L P, B 2-3723
3066 Baxter T J, B 4496
3067 Hill Elgie
3068 Roberts Jesse
3069 Lawson DeHart
3071 Brown Lee R
3072 Badami Jos
3073 Gamlin Vassie
3074 Devitt J E, B 6213
3075 Vinole Reynaldo V
3076 Romero Jos L
3077 Sandoval A G
3078 Pittack C E
3079 Parker Eug A
3080 Ballard A L
3081 Weddle J F, B 3152
3082 Cooper E, B 3519
3083 Bittner A C
3084 Chapman H H
3085 Johnson J V
3086 Glover Nathan
3087 McKee R A
3088 Dill H C, B 8858
3089 Reus O J, B 9005
3090 Lindley S E, B 0494
3091 Elliott R E, 6572
3092 Whitney L J
3093 Grant J H
3094 Perez Saturnino
3096 Sargent T G
3097 Smith C H Mrs B 2-2022
3101 Pool V E
3102 Judon D A
3103 Hannibal J P
3104 Marbry W F
3105 Henry W L
3106 Daniels W H
3107 Newman R E, B 2-1730
3108 Karstens R L, B 5567
3109 Hudson R O
3110 Nick C A
3111 Philipps Philip, B 2-3258
3112 Lorentson Alex
3113 McNamara J I, B 2-2118
3114 Teters G E, B 1778
3115 Ripa V M
3116 Thomas LeRoy jr B 0738
3117 Tattrie N M Mrs, B 2-3266
3118 Piraino Mariana
3119 Franklin Geo, B 2-1858
3120 Cole C S
3121 Brown R L
3122 Enriques M R
3123 Dugan P J
3124 Matthews Eddie
3126 Kerr F E Mrs, B 2-1995
3127 Curo E P, B 2-3830
3128 Vezzani Herman
3129 Smith K C
3130 Thompson A L
3131 Stuart W E
3132 Flores C D, 4079
3133 Edmondson H D
Wonder Chair baby furn
3134 Adams Harry
3135 Terry W M
3136 Munoz Tony
3137 Howeth I B Mrs, B 7083
3138 Vacant
3139 Bivens J K
3140 Strawhorn C P
3141 Anderson Levon
3142 Cooper H J, B 7501
3143 McKinney Chester
3144 Hufmann Annie C Mrs
3145 Swanson K T Mrs
3146 VanMeter H J
3147 Denny E H
3148 Norcross C R
3149 Follansbe J S, B 6900
3150 Peters P T, B 2-3367
3151 Lytle G C, B 2-1475
3152 DeHaas W R, B 2-2972
3153 Peck W R
3154 Landry Sidney, B 2-2812
3155 Calhoun W J, B 3500
3156 Jones S R, B 4325
3157 Vacant
3158 Myrick F P, B 3016
3159 Cuevas C V
3160 Slayton C E
3161 Terrett R H, B 2-2857
3162 Oswalt R E
3163 Acosta Hortencia Mrs, B 4678
3164 Claar J E
3166 Adams E C, B 9793
3168 West R E
3170 Way W R
3172 Massey S E
3174 Vacant
3176 Smith J T
3178 Berg H A
3180 Cole Chester, B 2-1208
3182 Silva Doroteo, B 9834
3184 Martinez Leo
3186 Albright W B
3188 McInnis D E
3190 Shipman R F
3192 Reveles R V, B 7724
3194 Rowan D H Mrs, B 6055
3196 Turner J W, B 7585
3201 Slade R C
3203 Burpee E C
3205 Newday P O, B 2-1814
3207 Curran J R
3211 O'Ran J T, B 8518
3213 Thompson Harry
3215 Vasquez R F, B 1660
3217 Kuhn O D, B 2-3117
3219 Toohey V L
3221 Morgan R M, B 2-2168
3223 Birch O A
3225 Mossbarger G A
3227 Barden Marguerite Mrs
3229 Woolfolk C A
3231 Moore Kirby J
3233 Guinon K B
3235 Vacant
3237 Hoopingarner H L, B 2-3157
3238 Kirschman S E
3239 Peck O J
3241 Skyles H B, B 2-1105
3243 Thomas D R
3245 Upah J E, B 0846
3247 Gould S E, B 1015

BARNETT AV (Loma Portal) — East from 2800 Lytton

3002 Vacant
3004 Howard F M
Matchinske D F, B 2-3261
Robson Jos N
Schafer M A, B 1754
3006 Day and Night Plmbrs plmb contrs, B 8189
3028 Am Assoc Airlines Agcy, B 1685-1686
3030 Barnett Launderette, B 8752
3032 Barnett Av Sundries confy B 9477
3034 Bay Clnrs B 7337
3036 Rex Cafe B 9354
3082 Hawes J T, B 9762
3084 Isaacson R H, B 2-2459
3086 Deal W L
3092 Vacant
3094 Vacant
3096 Plunkett W H
3098 Wagner I J, B 2-3503
3102 Vacant
3104 Vacant
3106 Clark W H
3112 Fabricatore L O
3114 Bingham Allen jr B 1263
3116 Jones F I, B 1751
3118 Barrett W F, B 9624
3122 Donnett R L, B 1584
3124 Patras W H, B 2-2370
3126 Carroll Wm
3128 Harrold D P
3150 Navy Defense Housing B 8148
3162 Pracanica J L
3164 Telich J R
3166 McDorman L D jr
3168 Holbrook R T
3172 Evans E J
3174 Vacant
3176 Schneider M W
3178 Johnson W L
3182 Holland W E, B 4233
3184 Payne W J
3186 Vacant
3188 Vacant

Causeway blvd intersects

3202 Williams L W
3204 Conger J F
3206 Hagaman H F
3208 Young N P
3212 Vacant
3214 Vacant
3216 Wood R A
3218 Roux L J
3222 Vacant
3224 Vacant
3226 Holmes R A
3228 Peterson R H
3232 Bass G L
3234 Vacant
3236 Vacant
3424 Albright Motors used cars
3501 Marine Corps Recruiting Depot W 8-3941
3502 Morris R R Union Oil Serv B 9382
3518 Service Tailors B 7474
3546 Bumper to Bumper Serv B 8653
3610 Anglers Bait & Tackle B 0219
Spencer W A

BARNSON PLACE—East from 2710 Brant

2700 Penny W J, J 4556
Venton A H Mrs @ J 4845
2705 Vacant
2725 Wieder S R @ J 2311
2735 Dunn G T @ J 0478
2745 Dennis C R Mrs @ J 1513
2766 Bullard O K @ J 0849

BARR AV (Mission Hills)—West from 4300 Dove

824 Scott J M @ W 8105
827 Taber W P @ J 8866
830 Soule Phillip @ W 2502

Goldfinch intersects

905 Evenson F F @ J 3446
911 Glidden E C @ W 8-1015
916 Judd E A
922 Edwards R S @

BAY FRONT—Southeast from Sigsbee to Sampson, l s of Colton
ft of Sampson San Diego Marine Constn Co F 9-8051
1860 Chaffee Machine Co boat bldrs M 3642
1955 Westgate-Sun Harbor Co canners F 9-9341

BAY VIEW AV—North from A, l w of 37th

BAY VIEW COURT (Mission Hills) —In semicircle from l blk e of 4000 St James pl, l s of Sheridan

4047 Hamill Alice E @ W 6451
4051 Rocle R E @ J 6122

BAYARD (Pacific Beach) — North from l blk s of 900 Pacific av

4000 Wilson T W H 8-7405
4005 Scripps T @ H 8-2533
4104 Stuart C H @ H 8-9628
4110 Beckett H L @ H 8-8120
4114 Under construction
4121 Tichenor Alice L @ H 8-4304

Oliver av intersects

4204 Lind S R @ H 8-6956
4205 Powell C T @ H 8-7426
4211 Pennell J L @ H 8-7867
4212 Schaperkotter M C @ H 8-6307
4218 VonRoenn K F @ H 8-1550

BAYARD (Pacific Beach)—Contd

4225 Gray E S @ H 8-4166
4226 Dunbar P H @ H 8-4122
4236 Berman Jack @ H 8-9008
4239 Utschig R H
4242 Swift R W @ H 8-4316

Reed intersects

4276 Under construction
4277 Burns Vernon, H 8-3169
4278 Favorite W E, H 8-7127
4280 Reid E R, H 8-5979
4282 Neice G G, H 8-9840
4284 Steiman M I @ H 8-7336
4285 Reiser R C, H 8-8811
4287 George M H, H 8-6755
4289 MacLean K J, H 8-6151

Thomas av intersects

4316 Catalano O A @ H 8-9909

Grand av intersects

4406 Moore J L, H 8-5064
4408 Speck E P
4410 Chambers H D
4412 Jasper E L
4425 Clary N B, H 8-0021
4435 Harris D C
4441 White J G, H 8-8414

Hornblend intersects
Garnet intersects

4516 Robinson W E, H 8-7163
4518 Parrez Al

Felspar intersects

4630 Thompson Gerald, H 8-9583

Emerald intersects

4650 Olson H F, H 8-8021
4652 Morrison E W, H 8-5618
Ostrander E R
4654 Neifing P P, H 8-5465
4655-63 Vacant
4679 Belch T E @

Diamond intersects

4725 Vacant
4727 Paradise Louis
4737 Ferguson P W, H 8-0357
4739 Hammond Bessie Mrs @ H 8-4442
4741 Worley McDonald

Missouri intersects

4758 Clark A B
4765 Randall G N
4766 Sunder J W
4776 Trenfel Jacqueline T, H 8-6693
4777 Bills R G
4780 Winegar Clareden, H 8-1221

Chalcedony intersects

4815 Olivas Ophelia @ H 8-6163

Law intersects
Beryl intersects

4916 Balzer J J @
4935 Bakken E M @ H 8-3063
4937 Rich D C

Wilbur intersects

4964 Einolander S U @ H 8-8506

Loring intersects

5018 Tuggle J M, H 8-6062
5028 Miller P S, H 8-9057
5029 Moody A J, H 8-1833

Opal intersects

5075 Kennard C W @ H 8-6260
5079 Pedretti F C, H 8-6392
5081 No return

Tourmaline intersects

5126 Mason R A
Shekey David
5130 Diodati D A, H 8-1658
5134 Miller J W
5138 Silva A H, H 8-3520

Sapphire intersects

5150 Grande Wm
Osmae Delores Mrs
Thompson Alf

Turquoise intersects

5160 Anderson Jos
5160½ Grant A W
5161 Schnauabelt J J, H 8-0498
5162 Murray C A
5162½ Eaton H E

BAYLOR DRIVE—North from Collier av, 3 w of 54th

3470 Russell G F
4705 Graves R N @ T 0281
4711 Conrad G R @
4717 Abrams M L @ T 1-4854
4723 Shinn Raymond @
4736 Jackson David @ T 1-3746
4744 Loss E C @ R 2018
4818 Wren Quitman @ T 1-7067
4829 Novarro Angelo @ T 7469

BAYONNE DRIVE (Pacific Beach) —South from 1500 Moorland dr

3404 Allen J F @ H 8-1888
3410 Overby R S, H 8-5476
3416 Cooper R G @ H 8-5125
3422 Powers B W @ H 8-3791
3423 Ott Louis @ H 8-3712
3428 Wollenweber R W @ H 8-9870
3434 Ott H B @ H 8-3875
3437 Foster D S @ H 8-7566
3440 McKenna J M @ H 8-4156
3445 Brady Hebert @ H 8-8072
3446 Krueger G E @
3451 Linscheid R M @ H 8-8232
3452 Ames E K @ H 8-1640
3461 Harris F O @ H 8-6371
3462 Sting R J @ H 8-2177

LaCima intersects

3503 Oliver H W, H 8-4645
3504 Augliaro A A, H 8-1214
3509 Lecoq Vital @
3515 Pearsall G R @ H 8-2447

BELLEVUE AV (LJ)—Contd
5681 Reiner Chas @ G 5-7325
Bird Rock av intersects
5705 Arner G E @ G 5-7254
5711 Stone Jean Mrs G 5-1222
5712 Tyler R C @ G 5-7596
5720 *Hamilton H T @ G 5-6949*
5721 Kelly W P @ G 5-7076
5726 McDonald C L G 5-3110
5727 Morgan Neil @ G 5-7004
5731 Vacant
5732 Minnitti Jos, G 5-3992
5752 McKinney Nora Mrs @ G 5-6435
5761 Cottam R L @ G 5-7232
5762 Goodnough R G Mrs @ G 5-2850
5776 Sabados J B @ G 5-7475
5784 Henderson J R @ G 5-7267
5790 Culbertson L G @ G 5-1347
5791 Vacant
5794 Lahoud G J @ G 5-4439
5795 Brantley R H @ G 5-4483
5798 Schmedding Jos @ G 5-6654
Camino de la Costa intersects La Canada intersects
5820 Bidwell H E @ G 5-7028
5827 Ball G B @ G 5-7017
5828 Cameron G E @ G 5-3023
5835 Leaman K F @ G 5-2446
5836 Sakiatwalla Anne Mrs @ G 5-7339
5906 Allen R R @ G 5-4412
5912 Abbey E R Mrs @ G 5-1687
5915 Viner G R @ G 5-6023
5920 Vacant
5921 Steckler J R @ G 5-3320
5931 Hughes J W @ G 5-3593
5944 Beckwith Warren @ G 5-3149
5959 *Monroe W R @ G 5-4155*
6001 Rice J W Jr @ G 5-2867
6017 Grosvenor M A Mrs @ G 5-6821
6028 Vacant
6036 Harvey W E @ G 5-6559
6046 Reed W J @ G 5-6046
6073 Tarnowski J F @ bldg contr G 5-7857
6080 Branch C S @ G 5-7080
6091 Tyzzer R N @ G 5-3820
6097 Eichman Seymour @ G 5-1875
Waverly av intersects

BELLINGHAM PLACE — From junction of Wilson and Myrtle ave southeasterly to 37th
3580 Wnuk Thadeus, T 1-5789
3591 Worthington Robt @ T 6372

BELMONT AV (Normal Heights) — East from Mountain View dr, 2 n of 3800 Adams av
3801 Ely Robt @ T 6796
3811 Adamson Mildred @ F 0012
3812 Vandervort A H @ R 6842
3819 Hinrichs F M Mrs @ R 2033
3828 Babcock Leroy @ R 2126
3829 Erwine S D @ R 4080
3832 VanSant W H
3839 Lonergan F H @ T 1-5955
3844 Snyder P H @ R 2743
3853 Howard H C @ R 3205
3858 Ross C B @ R 2144
3861 Southwick S F @ R 1071
3866 Sund W L @ T 1-3288
3867 Finnerty F M, T 9538
3875 Prentice Chauncey @ R 8439
3876 Mawson T B @ T 1-3455

BELT E — Southeast from jct of 28th and E Harbor dr
2025 Fisherman's Marine Co diesel fuel F 9-1215
2031 Shepherd Diesel Marine F 9-9471
2095 Golden M H Constn (whse)
2145 Kelco Co (plant) M 1011
2285 Eta-Hokin & Galvan elec contrs F 9-2148
2301 Bettencourt F J gas sta F 1704
2305 California Tuna Canning Co F 9-1136
2315 Blue Fin Grill F 9-4742 and F 9-9009
2475 Martinolich Ship Bldg Co F 9-2138
Harbor dr intersects

BELT N — North from 1000 West F, 3 s of Broadway
Grape intersects Hawthorn intersects

BELVEDERE (La Jolla) — East from 3 blks w of 7050 La Jolla
215 Dewhurst E W @ G 5-3379
221 Cassell A L @ G 5-2830
226 Carleton G A Mrs G 5-7386
324 LaBelle G E, G 5-1785
325 Clark M C @ G 5-3307
329 Helser Hene
331 Welsh J B, G 5-4575
334 Vacant
338 VanSlyke M C @
340 Atkinson L D @
Briggs Z E, G 5-1819
341 Sinclair Victoria Mrs G 5-3142
344 Aldrich H S @ G 5-1237
351 McDougal D C @ G 5-2076
358 Okey D C @ G 5-2394
359 Bovard J F @ G 5-6484
369 Fernading Kath Mrs @ G 5-6825
Monte Vista intersects
402 Sweet H L @
405 *Sipes A D Mrs @ G 5-7294*
407 Gewalt Carl @ G 5-6288
410 Vacant
418 Lewis H B, G 5-7275
421 Koeppe C E @ G 5-4886
424 Powell J O @ G 5-4240
431 Campbell L F @ G 5-1580
439 Radford G S @ G 5-7800
440 Butler Benj, G 5-7534
442 Donnelly Howard, G 5-1457
447 Kohl Rosemary Mrs @ G 5-1284
450 Haver G B @ G 5-4000
458 Zinn E W Mrs, G 5-7528
459 Vacant
460 Barton G L
461 Vacant
462 Marshall T A, G 5-1567
464 MacMillan Duncan, G 5-1047
469 Brown L D @ G 5-4372
Lajolla intersects

BENICIA (North San Diego) — North from 2 blks s of 5500 Gaines
1234 *Sanchez Dennis, J 4319*
1236 Pena Nabor @ J 6548
1245 Clark J J @ J 5432
1266 Rebeles Manuel @

BENSON — Northwest from Linwood to Brookes av

BENSON AV (Encanto) — East from ½ mi w of 65th, 4 s of Imperial av
6145 Lee J L @ M 4-2544
6611 Thew H P @ M 4-2597

BENTON PLACE (Normal Hts) — North from 3550 Mountain View dr
5105 Carpenter A V @ T 5671
5111 Geirk J C @ R 3564
5112 MacLean Kittie Mrs @ T 2432
5117 Perry W E @ T 9166
5124 Zook H G @ T 1-8461
5130 Church W J @ T 1-7204
5131 Bergstrom R J @ T 9790
rear Harrington Awona, R 0419
5137 O'Hara V P, T 6994
5147 Hokanson W L @ T 6049
5148 Turner R B @ R 8510
5156 Kendrick F A @ R 8834
5157 Thornton C H @, T 6362
5162 Rudman Cecelia G Mrs @ R 0048
5163 Eskew Neal @ T 0949
5169 Ramsey W R @
5175 Swires H W, T 1-2483
5202 Simmons M A @ T 0900
5209 Stafford G A @ T 7527

BERLIN (Old Town) — Northwest from 3200 Locust

BERMUDA AV (Ocean Beach) — Northwest from Santa Barbara, 1 s of Point Loma av
Santa Barbara intersects
4407 Fisher J E @ B 2-2174
4411 Johnson R A Mrs @ B 4318
4414 Dusch B E @ B 2-3155
4421 Fouche L D @ B 8663
4424 *Hebert C P @ B 4966*
4437 Scantlin H L @ B 9724
4438 Ryder C H @ B 6636
4444 Cowgill R M @
4445 Blair R I @ B 6810
4452 Fisher R L @ B 2-2488
4453 Mayfield W S @ B 5491
4460 Cherry P D @ B 4735
4461 *Campbell W C @ B 3953*
4469 Mulholland Albert @ B 6770
4475 Jorgensen P R @ B 2-3781
4476 Raff A D @ B 0400
Guizot intersects
4512 Huntington R L @ B 4067
4519 Anderson Vera, B 2-1774
4521 Burdick J C @ B 3523
4528 *Hunting F S Mrs @ B 7793*
4536 Aaron R L @ B 9054
4542 Orrick R W @ B 6121
4545 Cecelski H R @ B 2-1505
4546 Passano L W
4558 Tamm G A, B 8862
4559 Archibald Gladys Mrs @ B 7674
Rasmussen Robt
4565 Withers A W @ B 2-1054
4568 Sieckman Franklin @ B 6501
4575 Hall C O @ B 2-2346
4575½ Hall E B Mrs
4576 Kucharski G O Mrs @
4584 Bernard C W @ B 2-2665
4585 Bodmer H F Mrs @ B 3732
Froude intersects
4603 Long S B @ B 2-2441
4605 Bonham Ralph
4612 Thornley A @ B 6741
4614 Hampsten V R
4619 Poschman J J @ B 2-1454
4622 Bishop W D, B 2-2454
4624 Galland J B
4625 Milligan Hugh @
4631 Milligan J B @ B 3775
4632 Smith J F @ R 5806
4635 Coombs G E @ B 7654
4638 Bannan Thos, B 2-2081
4640 Clark C L @ B 8796
4646 Nance C E @ B 5127
4648 Arnold G E, B 2-3302
4651 Vacant
4651½ Cary DeW C jr
4654 Diedrichsen R T, B 4672
4655 Douglass P M @ B 3719
4656 Bowers R A, B 2-3939
4659 Paslay E W, B 8302
4664 Kelley Gordon @ B 1124
4669 Parish M L
4670 Walters G M @ B 5051
4675 Garcia R R @
4676 Hamilton H E @
4684 Clarke M E @ B 5657
4685 Radovich G B @ B 8667
4694 Brackelsberg M C @ B 0236
Ebers intersects
4704 Teter J W, B 2-3497
4705 Mitchell M L @ B 5923
4711 Cheatham C S @ B 2-2353
Smith J F
4712 Rife H L @ B 6506
4718 Kruger David
4719 England Mary Mrs @ B 6579
4720 Lowry D J, B 6721
4722 Gibson G H @ B 2-1431
4722½ Horton J A
4730 Loughrey A L Mrs @ B 5989
4733 Thomas W E @
4735 Schwarz E C
4739 Crowson J J, B 7838
4740 Parsley E M, B 4000
4741 Nix S A real est B 2-3903
4742 Clark J B, B 9986
4743 Bacon K V
4746 Smith L A @ B 7951
4749 Convery G M @, B 4178
4754 Flemmig Josie Mrs @ B 7932
4759 Dean W I @ B 2-1278
4760 Harper G H, B 2-3388
4765 Brumley R L, B 2375
4766 Hager Jack @ B 2-1954
4767 Baker L G, B 9621
4768 Peskin Philip, B 1569
4769 Bristow F C, B 7634
4771 Nelson B V Mrs @ B 0646
4774 Garton C R Mrs @ B 5149
4775 Pate J W @ B 7695
4783 Jones O C @ B 8932
4784 Lingley R C, B 2-3460
Sunset Cliffs blvd intersects
4811 Campbell G E
4815 Morris L H, B 3862
4818 Small E A @ B 4849
4822 Rogers J L
4826 Ater R E
4837 Lloyd Margt Mrs @
4844 Coleman H F
Riggs D T

BERMUDA CIRCLE (Ocean Beach) — A continuation of Bermuda av
4308 Marsh R S phys @ B 2-2579
4320 Balas E A @ B 9675
4332 Goldis J D @ B 1004
4333 Wood J H @ B 3209
4342 McKinney L I @ B 5834
4354 McCharles J R @ B 3567
4365 Strimling S J @ B 8411
4368 Wisser Scott @
4375 Polan H H @ B 7157

BERNADINE PLACE — North 1 block to 5500 Trojan av, 1 e of 54th
4206 Schneider R R @ T 1-2196
4211 Suelmoe R L @ T 1-7046
4212 Johnson T E @ T 6090
4221 Vierra W G @ R 6889
4222 Skirvin E E @ R 5020
4230 Attig R J @ R 3615
4235 Newton E M @ R 5007
4238 Masterson J L @
4245 Stoll J D @ T 1-7254

BERNICE DRIVE (Ocean Beach) — West from 2 blks n of 2550 Chatsworth blvd
3804 Bruce M W Mrs @ B 4357
3811 Gudmundson H L @ B 7251
3812 Hale D @ B 5798
3820 Mughan Ben @ B 2-3287
3821 *Sierts Sophronia @ B 2-1392*
3827 de Beck O F, B 6145
Towle R P Mrs @
3828 Goddard G N @ B 6985
3835 Wisham C L @ B 1220
3836 Guerrant C J @ B 1293
3843 George V S @ B 3812
3844 Duffy C G @ B 6592
3851 Myers F H @ B 0989
3852 Garland Barbara Mrs @ B 9006
3859 Long J B @ B 4696
3860 Hardy Herbert @ B 8915
3903 Hein L F @ B 2-1736
3904 Melhorn H J @ mus tchr B 9160
3911 Starke R W @ B 4255
3912 Dukette E R @ B 4316
3919 Fleet H W
3920 Lister K F @ B 6946
3927 Bussey G V V Mrs @ B 5040
3928 Volz F F @ B 4952
3935 Griffiths M C Mrs @ B 9746
3936 Riese W H @ B 5692
3943 Dickey F G Mrs @ B 5983
3951 Dahout E E @ B 9776

BERNICE DRIVE (Ocean Beach) —Contd
3954 Rodrigues O C @ B 9015
3960 Sheehan J J @ B 2-2257
LaCresta dr intersects
4004 Vaughn C E @ B 4637
4011 Hultgren Helge @ B 5583
4012 VanEe W J @
Wells begins
4020 Hudepohl C E @ B 2-3139
4021 Loomis C B Rev
4028 Chadwick R F @
4031 Lasko Steph @ B 7913
4036 Chapman C W @ B 3367
4037 Watson J D @ B 7457
4044 Hutchins D S @ B 2-1096
4045 Munger K J @ B 1620
4052 Peterson R W @ B 2-2571
4055 Crowe R A @ B 0370
4060 Dory M E @ B 2-2464
4065 Madruga G F @ B 4636
4068 Hardy D S @ B 1660
4076 Thomas John jr @ B 2-2006
4077 Houston S O @ B 9189
4084 Rainer M A @ B 2-2015
4092 Connatser C E @ B 2-1035

BERTING (East San Diego) — North from 5400 El Cajon blvd
4415 Vacant
4425 Flath Fred @ T 2607
4426 Bradley Merle @
4433 Mace G W @ T 7767
4434 Stockfisch J J @ R 6928
4441 Boyer C L @ R 9939
4455 Snyder C C @ R 4603
4461 Tussey C E @ R 6682
4463 Jenkins R J @ R 6122
4473 Hamlin H S, T 7594
4474 Maker C N @ T 4798
4485 Favel C H @ R 6230
4486 Clarke F B @ R 1937
4492 Park D R @ T 3841
4493 Rensch E A @ R 3687
4496 Jung Fred @ T 3412
Gilbert dr intersects

BERVY (North San Diego)—Northwest from 4500 Empire, 1 s of Gardena av
1504 Bolles N H Mrs @ W 6414
1511 Buss I O @ J 1309
1520 Bell F C @ W 3647
1521 Boltz E J @ J 9081
1528 Miller C B @ W 8-3376
1529 Cox T H, W 8-3468
1536 Garrison J J @
1537 Osbourne F J @
1543 Guest D D @ W 3814
1544 Peterson C B @ J 4180
1549 Groutte Jack @ J 4138
1550 Richardson J S @ J 8120
1557 Corson M J @ W 3406
1558 Taylor W M @ W 3851
1565 Belcher C A @
1566 Bray R E @ J 0969
Littlefield intersects
1720 Bothwell A A @
1736 Remmerde Louis @
1737 Saunders R J @ W 0250
1738 Vacant
1745 LaSchell Walter @
1755 Vacant

BERWICK AV (Roseville)—East from 3750 Del Mar av

BERYL (Pacific Beach) — East from Ocean blvd
707 Bergman Estelle @ H 8-4705
712 Cooper M J, H 8-0230
714 Chambers J W III H 8-3854
719 Vacant
722 Chandler W H, H 8-0393
724 Linder N G, H 8-6917
730 Smith W L
731 Vacant
733 Kemp S S @
738 Patterson W H @ H 8-5195
746 Evers W H @ H 8-5731
Madison blvd intersects
804 Bishop A L @ H 8-5400
811 Myers G R @ H 8-3069
812 Brame W W @ H 8-9542
819 Williams W L, H 8-8603
820 Daniel D P @ H 8-4760
827 Anderson Betty Mrs @ H 8-2963
828 Hauser H K @ H 8-6943
834 LaBaume F H @ H 8-2463
835 Shabow J E @ H 8-4880
843 Austin E R @ H 8-7024
844 Johnson W M @ H 8-4906
851 Anderson W H @ H 8-4903
852 Smith A B @ H 8-6921
859 Breaux E E, H 8-0490
860 Harper O W @ H 8-5444
861 Houston M C @ H 8-1258
867 Minder W T @ H 8-4826
868 Balzer Robt @ H 8-4823
Bayard intersects
901 Chambers F R @
904 Masters L M @ H 8-3128
912 Brutschy H E, H 8-2921
914 Martin Arth @ H 8-6218
915 **Seaside Court**
Albers M L
Cowan A H, H 8-4900
Deemer Rose Mrs
Heitzman Richd
Johnson A E, H 8-0495
Lawler J C
Turner Thos

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SAMPSON ST 1952

ST LOUIS TERRACE (LJ)—Contd
7925 Vacant
Hypatia way begins
7945 Hall D G, G 5-1344
7961 Dalton T W @ G 5-2320
7975 Houser S A @ G 5-7020

SALEM COURT (Mission Beach)—East and w from Mission blvd, 26 n of Amusement Center
706 Vance Sue L, H 8-1344
716 Scalf L L, H 8-3722
717 Thompson R J
720 Copeland A E, H 8-4249
Rodhe Beatrice Mrs
721 Rohde Heinrich J
723 Stevens M B Mrs
725 Best Dallas E
727 Johnson G I
729 Foreman Forest
731 LaPray Reed
735 VanDorston-Payner Co H 8-2425
Mission blvd intersects
815 Glover E L @ H 8-8826
819½ Skelton S C Mrs
821 Murray Ellen M @ H 8-5652
822 Key R D @ H 8-9505
826 Vacant
826½ Vacant
828 Pournelle G H, H 8-1049
831 Hillary C R @ H 8-3264
837 Bardon C H
841 Vacant
978 Vacant
Bayside walk intersects

SAMPSON—Southwest from 250 S 28th
206 Myers Charlotte Mrs @ F 9-2430
222 King Jas, F 3078
238 Robinson Arnie P @ F 9-6498
241 Crawford Euarl @ F 9-1987
244 Blackwell R L @ F 9-3284
Franklin av intersects
314 Burton Paul @ F 5616
315 Phelps R F @ F 0892
319 Clayton Dani @ F 9-1594
323 Allen P L, F 8520
324 Owens Lucille Mrs M 9903
325 Robinson C D @ F 9-7176
328 Brooks Geo, F 8577
Love Arth, F 2005
Smith Prentiss
339 Vargas Eldisa
Ocean View blvd intersects
419 Terry Lacy, M 5871
420 Whitmore Lonnie @ F 9-6741
431 Owens J L @ M 9363
441 Roundtree J E @ F 2505
Harrison av intersects
515 El Redentor Presbyterian Church
Walls G A Rev F 9-2404
516 Hicks W H @ F 9-6768
518b Aldridge Edna, F 2589
518½ Hutchins Rebecca Mrs F 6838
528 Lidot Pete @ F 9-4404
529 Gianformaggio Antonio
534 George Elias @ M 9683
546 Nader F K @
Nader Sarah Mrs gro F 9-9918
Irving av intersects
603 Meyer P T, M 0374
604 Peraza H H @ F 9-1828
609 Croy D S, F 2598
610 Bejarano Maria Mrs @
611 Decker Howard, F 9-5187
615 Vacant
616 Okuma Yoschiki, F 9-6591
619 Duarte Angel
620 Lee Chas, F 3249
621 Vacant
622 Hara Geo, F 9-3066
623 Camacho Jesus, F 5516
629 Garrison B D @ F 0642
632 Bolden W T @ F 9-3085
635 Berry Roscoe @ F 1425
644 Lee J A @
645 Sanchez M R, M 2302
Julian av intersects
704 Hollman B M @ F 5006
717 Andreu Peter @
721 Baca Patk @ F 9-2975
724 Myrick W P @ M 1377
Kearney av intersects
801 Arterburn G F
805 Irwin W K, M 8-1362
807 Leidig W H, F 8338
809 Olson Alf
811 Newell Elmer, M 7203
815 Prew Beatrice Mrs F 5576
817 Prew Beatrice L
819 Kauffman Leonard
821 Hancock C D, M 9982
823 Borer R O
826 Lluag Luis @ F 7865
828 Vacant
829 Linder C B
Logan av intersects
906 Komodoske Dorothy Mrs F 9-6608
908 Esparza F R, F 1760
910 Mendoza T G
911 Tanaka Tsuruye Mrs F 9-8446
915 Ford E M
924 Shimpones Gus
930 Nush Andrew, F 2017
934 Ozaki Hisashi, M 1200
938 Yamauchi R M, F 5201
942 Yamauchi Yutaka, M 8-2463
National av intersects
1018 Johnston Wm, F 4043
1020 Martinez P A
1022 Montano O R, F 2634
1027 Pombuena Bartolome @ F 9-4904
1037 Gomez Dani @ F 9-1035
1043 Reyna Michl @ M 9080
Newton av intersects
Main intersects
Colton av intersects
1304 Volker Wm & Co whol floor coverings F 9-9205
1348 S D Gas & Elec Co (Silver Gate Station)
E Belt intersects
1401 Carter-Delg Oil Co, F 7691
2295 Vacant
ft San Diego Marine Construction Co boat bldrs F 9-8051

SAN ANTONIO AV (La Playa)—North from 1 blk e of 300 Rosecrans
302 Bowers R W @ B 7660
Dworechi Alf
310 Pyle B H @ B 3292
316 Vacant
326 Neal J V, B 7384
Kellogg intersects
352 Hohner M M @
362 Bancroft S G, B 2-3200
365 Clarke J M @ B 4848
368 Gruber E N, B 8585
376 Reutinger O W @ B 8753
379 Fitzgerald C K @ B 6295
388 Fitzgerald R G @ B 4315
396 Vacant
Lawrence intersects
410 Benbough H L @ B 5379
416 Mickelwait G D, B 6638
418 LaMont W G, B 1785
420 Davis J C
422 Steinbeck S E @ B 2-2418
430 Small E F, B 4139
431 French C E jr @ B 4349
441 Scott Edgerton @ B 9854
449 Harris R H, B 2-2467
McCall intersects
Nichols intersects
Owen intersects
545 Mueller E A @ B 3035
555 Angier M L @ B 3378
557 Vacant
567 Bass Marguerite L @ B 8876
581 Scull W R @ B 2-1487
584 Gould E G @ B 4956
595 Gardner Kenneth @ B 3909
Perry intersects
615 Lister A L @ B 2-1559
616 Miller E F @ B 3755
624 Engel Fredericka Mrs @ B 3493
630 Gannon V Lee @ B 2-2265
636 Vacant
645 Vacant
646 Riley I R @ B 5409
Quaitrough intersects
650 Lyon W E @ B 6685
666 Urquhart J R @ B 5212

SAN ANTONIO PLACE (La Playa)—Continuation of San Antonio av
821 Conard H S @ B 3571
845 Hanna G D @ B 7230
851 Gustafson C E @ B 4591
856 Vacant
862 Webb J C @ B 1163
865 Leech L B
869 Clark Ralph @ B 6547
870 Mitchell J D @ B 9140
871 Newton W C @ B 5820
873 Martinolich A C, B 3259
Martinolich J A, B 2-3370
874 Brewer L J @ B 2-2533
876 Armstrong J E @ B 4011
880 Mack H P @ B 5458
888 Monroe L H @ B 2-1967

SAN BERNARDO TERRACE (Valencia Park)—West from San Jacinto dr, 5 s of Churchward
5286 Correa Antonio
5292 Mokovich J V @ M 4-1706
5305 McIlroy Robt @ M 4-3529
5306 Cannon C B jr M 4-7476
5314 Chase E L @ M 4-2632
5324 Bruner W C @ M 4-7177

SAN CLEMENTE (Ocean Beach)—North from 4100 Tennyson
2125 Backhaus Ernest @
2126 Isaak G B Mrs @ B 3254
2128 Bean W G @ B 9091
2151 Zehel A R @ B 0384
2163 Norton W H, B 6494
Voltaire intersects
2211 Kenney C C, B 7771

SAN DIEGO AV (Old Town)—Northwest from 400 Witherby
1851 Union Ice Co (plant)
1889 Appliance Refinishing & Serv W 1400 and W 4415
Noell intersects
1900 Bray D W, W 8-2333
1902 Williams F E, J 8912
1904 Broyles P H, W 8-1437
1906 Haas Mary L
1908 Becker Hattie M, J 1673
1919 Chapman A H @ J 9528
Hise John
Rowden O J, J 9528
Sarpolis H C Mrs
Stanley C F, W 8-2623
1926 Schuerch H W, J 4907
1928 Seagle J L, J 4423
1930 Morgan R R
1932 Curtis D A, W 0624
1942 Ecklund D F
1944 Baugh D R, W 1788
Estudillo intersects
1946 Sears C T
1948 Skipper J B
2010 Lightbody A W @ J 2947
2020 Judge W A, J 9096
2030 Veysey C H @ W 8-2561
2034 Vacant
2038 Dickerson C S @ J 8754
2044 Tucker W L, W 4905
2045 Cooper's Auto Court W 9535
Cooper F H, W 9535
Nafziger C H @ W 9535
2051 Bingham C E, W 6985
2053 Grove R A, J 9579
2055 Wilson A F, J 6433
2057 Reideler B G, W 1272
Wright intersects
2062 Vacant
2070 Weitzel Evelyn L @ J 5012
Baudini intersects
2086 Grady R A, W 8-2468
2090 Locke W O
2101 Holliday J F, W 8-3443
2101½ Halls F E @ W 8-3516
2103 Birch Gertrude, W 3036
2103½ Dunaway F A
2105 Klaiber R W
2107 Hodge J J
2120 Belling F J
Harwell E B @ J 3723
2145 Corder C R uphol W 5246
Witherby intersects
2147 Buysman V E pntr W 0121
Melhorn W B contr W 0121
Woosley C S concrete contr W 0121
2151 Costa Ralph
2152 Alta Vista Dining Room W 0224
2153 Ford Doretha, J 3494
2155 Willard W R
2157 Koury L G
2159 Starkovich John
2161 McLamarrah B V, J 9686
2163 Newsom J W
2165 Zeidler D F
2167 Arthur L F, W 6302
2169 Vacant
2171 Jimenz Steph, W 8-1329
2173 Bernhein Armond, W 8-2160
2175 Prost A W, W 8-3092
2177 Wasko M D
2179 Berg G R
2181 Skipwith Wm jr
2183 Shirley Bud, J 3860
2185 Akin Roy, W 5986
2187 Baker O F Mrs W 8-2491
2189 Fenderson Lesley, J 1667
2191 Takahashi K R, J 9708
2193 Vaden J L
2195 Geddes Wm I
2197 Perez M A
2215 Eagon Chalmer D
2217 Rowson L B, J 2794
2219 Kessler Kathleen Mrs W 8-3247
2221 Uzzel W A
2222 Anchor Cafe W 9342
2223 Ross J V, J 3023
2225 Fibiger R A, J 8829
2227 Adams R L Mrs J 8417
2229 Suggs L E, W 8-1846
2233 Rivera C C
2235 Worley Lawrence
Worley M L
2237 Mares Jos jr W 8-1403
2239 Hickman Edw, W 8-3095
2241 Miner Alf W
2243 Hebb G B, J 4489
2245 Shepherd Paschal, J 7240
2247 Rochmes Marvin
2275 Cordes Carroll
2287 Paris Auto Court W 0809
Schultz F C
Trias intersects
2305 Gendron R L Mrs W 3769
Loeffler-Harris Studio photogs W 3769
2330 Casa Manor Courts motel W 9349
Fowler J K, W 9349
Casa Manor Motel W 5560
Hall J R @ W 3452
2341 Hall's Trailer Court W 3452
Davidson J W
Ampudia intersects
2350 Old San Diego Auto Court W 9016
Thienes Marion Mrs W 9016
2367 Barthel Fritz Tile Co W 6319
2371 Masterson C B bldg hdw W 1452
2375 Daniels A W land surveyor J 2657
2384 Callstrom H O @ W 6966
2390 Rogers K J, J 8688
2396 Blake Theo @
Arista intersects

SAN DIEGO AV (Old Town)—Contd
2400 Old Spanish Cemetery
2415 Crawford Auto Court
Nelson Harold S @
2422 Fillman Sylvia Mrs W 6760
2424 Campbell S T, J 2406
2428 Vacant
2432 Nance P G @ J 0420
2433 Vacant
2440 Wilcox R H, W 8-3539
2444 Campbell Trench, J 2406
Trench & Mary's Place restr W 9071
2446 Cox Cecil E, J 2589
Conde intersects
2448 Ellery Bessie Mrs
Ramona's Beauty Shop W 5130
2461 Foxworthy G M gas sta W 2768
Chase F M, J 8605
2470 Ferguson's Auto Court
2482 Whaley Corrine L @ W 5687
2489 Heylman's Food Store W 9661
Jones Meat Market W 2739
2491 Chic-ita's children's clo W 5496
Hamilton Darlene
2493 Old Town Bakery
2495 Presidio Cafe W 0433
2497 Presidio Pharmacy W 6063
Harney intersects
2501 Blue Bird Variety Store J 8514
2505 Lee's Barber Shop W 4458
2515 Fousek C L, W 5671
Joe's Shoe Shop
Trup Max, J 2790
2521 Bennett W R
2523 Woodrum C R, W 8-1774
2524 Immaculate Conception Hall
2540 Church of the Immaculate Conception J 9893
Girardot Julian Rev J 9893
Third Order of St Francis
2541 Anderson Chris, W 1500
2545 D'Morale Beauty Salon J 0986
2547 Finnigan W C dentist J 3778
Twiggs intersects
2600 Cerda Mabel, J 5657
2602 Heffner C O & Associates real est W 6246
Heffner C O
2610 Vacant
2611 Tropic Motel
2616 Manuels Restr J 9101
2627 U S Post Office W 6497
2635 Johnson N J
Johnson's Liquor W 8-2395
Mason intersects
2701-05 Old Town Variety
2711 Tony's Market W 9531
2715 Hubbard's Cupboard restr W 9411
2723 Ellison Wm, W 8-3176
2725 Ramona Cafe W 9557
2729 Bell Television J 6200
2731 Roy Maurice Portrait Studio J 8648
2739 Vacant
2743 Page W A Rev J 9319
2745 Old San Diego Community Ch
2797 Ramona Motel
Patterson G B Mrs
Wallace intersects
2803 Graham C R
2806 Blakely L L
2808 Old Town Clnrs J 1693
2810 Alley D R
Old Town Barber Shop J 6882
2811 Aztec Cafe W 2483
2822 Victory Auto Court J 7962
Blummstein Harry, J 4962
2829 San Diego Constn Co bldg contrs J 4666
2857 Old Town Beauty Salon W 0338
2866 Old Town Cafe W 9584
2870 Standard Stations Inc gas sta W 9280
Taylor intersects
Rosecrans intersects
Riley intersects
Greenwood intersects
3125 Lujan Julia Mrs @

SANDROCK GRADE (Mission Cliffs)—North from n end of Texas

SAN ELIJO (La Playa)—North from Jenkins, 1 w of 300 Rosecrans
305 Filer J C
307 Swor E S, B 4358
309 Churchill J E
314 Rock L G @ B 3140
329 Rickards D J Mrs @ B 0706
331 Harrison A M Mrs
335 Granger C S, B 2-2981
350 Monteiro E R @ B 8010
364 Chase F D, B 5702
370 Madruga Jos @ B 8592
375 Harrison W W @ B 6329
Kellogg intersects
424 Mullenix R B @ B 3213
475 Rosa L G @ B 2-2950
484 Bateman L W @ B 2-2155
Lawrence intersects

TP	Adjoining	Source
-	✓	San Diego Directory Co.

BAY FRONT ST 1948

BARNARD—Contd
3141 Shanley L P
3142 Cooper H J
3143 Reed R L
3144 Kimbrell L E
3145 Marlow V A
3146 Stoughton J A
3147 Wade I G
3148 Kinomiya G K
3149ΔBlock T L
3150 Peters P T
3152 Palash J R
3153 Renzulli J W
3154 Landry G E
3155ΔButler R G
3156 Jones S R
3157 Elizey C J
3158 Garcia J S
3159 Holmes E C
3161ΔTerrett R H
3162 Higdon H P
3163 Acosta L F
3164 White K L
3166 Moore L E
3168 Erler Herman
3170ΔCraven S H
3172 Reynolds H E
Zentzis Oran
3174 Penn Jane T
3176ΔTopuzes D D
3178ΔCargile A M
3180 Hawkins Julius
3181 Poellot A M
3182 Lee J H
3184 Jones E H
Klas Laura Mrs
3186 Denzin C H
3188 Vacant
3190 McAllister H R
3192 Hoy B E
3194 Allbritton C E
3196 Snyder C C
3201 Blundell I T
3203 Whitehead C T
3205 Hoeschulte R F
Rodger D A Mrs
3207 Palmer O L
3209 Day E F Mrs
Degreve Blanche R
3211 O'Ran J T
3213 Nakagawa F K
Sonka Frances
3215 Vasquez R F
3217 Rawls D R
3218ΔWallace J D
3221 Dobyns G T
3223 Hancock M M
3225 Mikesell R H
3227ΔStashin Louis
3229ΔBrassey L C
3231 Francis C W
3233ΔTaunton L D
3235 Brown R C
3237 Bernard A C
3239 Agnello Rose Mary
3241ΔSchmidt A K ◎
3243 Jackson W J
3245 Upah J E
3247ΔGould S E

BARNETT AV (Loma Portal) — East from 2800 Lytton

3002ΔDeVoe A D Mrs jwlr
3004 Loma Portal Apartments
Matchinske D F
ΔMatchinske G E ◎
McPhail R G
ΔMix Carl
Siehl J W
Turner J H Mrs
3028 Hertz I I shoe repr
3006ΔDay & Night Plmbrs
3030ΔHerman Arnold self serv Indy
3032ΔGentles E A drugs
3034ΔMoss W L clo clnr
3036ΔHay P A restr
3082 Talley N L
3084 Hilfiger R E
3086ΔGennette A J
3088ΔSadowski B A
3092 Walker W L
3094 Hampton J N
3096ΔPresler P E
3098 Albertson Norman
3102ΔGraf C F
3104 Cash M K
3106ΔBernhardt Saml jr
3108ΔBoggs A L
3112ΔPetrie W G
3114ΔFranklin J C
3116 Hobby T N
3118ΔHall D H
3122 Beers J R jr
3126ΔLacy L F
3128 Fender W L
3162ΔBlocher H G
3164 Gordon W H
3166ΔGillock P E
3168ΔJuarez Geo
3172 Shellabarger T P
3174ΔDuran G L
3176ΔDamron J C
3778 Whipp P H
3182 White H D
3184 Jacobs Ralph
3186 Charles O M
3188 Reason J L
Causeway blvd intersects
3202ΔPopplewell L B
3204 Spaulding J P
3206ΔVanderbilt O J
3208 Jess L H
3212ΔDavis P V
3214 Westerfeld Geo
3216ΔHaessly W N
3218 Wylie D L
3224ΔGehrke Phil
3226ΔKledzik Ray
3228ΔPeterson G H
3232ΔHudson Henry
3234 VanDeWeerd Lockie
3236 Pedrotti R W
3238 Reed F W jr
3501 U S Marine Corps Base
3502 Williams A L gas sta
3518ΔKomins Saml clo clnr
3610ΔSpencer W A bait

BARNSON PLACE — East from 2710 Brant

2700ΔVenton A H Mrs ◎
2705ΔJackman B W Mrs ◎
2725ΔWeider S R ◎
2735ΔDunn F L ◎
2735ΔDunn G T ◎
2745ΔDennis F L ◎
2766ΔVerner A L ◎

BARR AV (Mission Hills) — West from 4300 Dove

824ΔScott J M ◎
827ΔTaber W P ◎
830ΔSoule Philip ◎
Goldfinch intersects
905 Evenson F F ◎
911ΔAlbertson H K ◎
916 Judd E A
922ΔHarkey E E

BAY FRONT — Southeast from Sigsbee to Sampson, 1 s of Colton

1955ΔSun Harbor Pkg Co

BAY VIEW AV — North from A, 1 w of 37th

BAY VIEW COURT (Mission Hills) — In semicircle from 1 blk e of 4000 St James pl, 1 s of Sheridan

4047ΔHamill Alice E
4051ΔRocle R E ◎

BAYARD (Pacific Beach) — North from 1 blk s of 900 Pacific av

4000 Wilson T W
4004 Scripps Emma Mrs
4005ΔScripps T O ◎
4121ΔTichenor Alice L ◎
Oliver av intersects
4225ΔGray E S ◎
4282 Zapf Fritz
Reed av intersects
4316 Ferguson P W
Tourmaline intersects
4406ΔShaw F C
4408 Michel R J
4410 Parker F D
4412ΔTakle K J
4435ΔMinton J R
4441ΔRoss F C Mrs
4516 Sayers R L
4518 Brush C R
4525ΔBarnett Arth
4630 Makepeace A D
4679 Ingles T G ◎
4758 Sanders C E
4765 Joyce J P ◎
4766 Fikes H L
4777ΔWade J B
4815 Olivas Ophelia ◎
4916 Balzer J J ◎
4935 Ronayne G B
4937 Farmer W E
Law intersects
5126 Boulder John
5130ΔWhite V Z
5134ΔHarwood A A
5138ΔConard C W
5150 Martin W M
Willing D J
Torquoise intersects

BAYONNE DRIVE (Pacific Beach) — South from 1500 Moorland dr

3404ΔWomack G W ◎
3410 Brooks M V ◎
3416ΔNash L J ◎
3422ΔPowers B W ◎
3423ΔOtt Louis ◎
3428ΔGaskins W L ◎
3434ΔLessing J D ◎
3437ΔFoster D S
3440 Harshfield B R ◎
3445 Brady Helbert ◎
3446ΔKrueger G E ◎
3451ΔLinscheid R M ◎
3452ΔWhite E D ◎
La Mancha dr intersects
3461 Harris F O
3462ΔKing R J ◎
La Cima dr intersects
3503ΔWilliams J T ◎
3504 Hirsch Morris ◎
3515ΔPearsall G R ◎
3521ΔReilly W A
ΔWare A W Mrs ◎
3524ΔSchruth J C ◎
3529ΔBaw A M ◎
3530 Cronce Ethyle Mrs ◎
3535 Gow R D ◎
3536 Baker D C ◎
3541 Reed G P ◎
3544 McCanna P V ◎
3547 Hurley E M ◎
3548 Behrens W H ◎
3553 Deans Lenore ◎
3554ΔMcDonald J W ◎
3559ΔWiedenheft H O ◎
3560ΔHarvey M L jr ◎
3566 Uhlinger P H ◎
3603ΔPierce L E ◎
3610 Holland R L ◎
3611ΔRobinson W A ◎
3615 Belt G C ◎
3616 Wrather E B ◎
3621 Wozniewski C G

IN EVERY CITY THERE IS A FAVORITE [illegible]

BELT ST 1948

TEL. MAIN 5011

BELMONT AV—Contd
3828ΔBabcock L R ◎
3829ΔErwine S D ◎
3832 Orr Annie
3839ΔHouser G W ◎
3844ΔSnyder P H ◎
3853ΔHoward H C ◎
3858ΔRoss C B ◎
3861ΔSouthwick Sarah F ◎
3866 Moore B C
3867ΔChambers J H ◎
3875ΔPrentice C A ◎
3876ΔClinton G B ◎
rearΔCurtis Max

BELT — North from 1000 West F, 3 s of Broadway
2031ΔShepherd Diesel Marine
Grape intersects
Hawthorn intersects
2110ΔLanghorst H W restr
2145ΔKelco Co plant
Juniper intersects
Laurel intersects

BELVEDERE (La Jolla) — East from 3 blks w of 7050 La Jolla
324ΔDevlin D S ◎
325ΔClark M C ◎
331ΔMitchell M B Mrs ◎
321½ΔWilkinson Chas
340ΔAtkinson C F ◎
351ΔHastings L B Mrs ◎
358ΔWishart Harriet E ◎
Monte Vista intersects
405ΔBertschy R S
407ΔRussell P W
418ΔElliot E E
439ΔAnderson H C ◎
440ΔCrutchfield W H ◎
442 Willson Woodrow
447ΔSiedel U D ◎
450ΔMacClenathan Ruth H
La Jolla intersects

BENICIA (North San Diego) —North from 2 blks s of 5500 Gaines
1234 Jacobs H V
1236 Allen J A

BENSON — Northwest from Linwood to Brookes av

BENSON AV (Encanto) — East from ½ mi w of 65th, 4 s of Imperial av
6611 Thew H P

BENTON PLACE (Normal Heights) — North from 3550 Mountain View dr
5105ΔCarpenter A V pntr ◎
5111ΔGeirk J C ◎
5112 MacLean K A Mrs
5117ΔMallory J D ◎
5127 Ellis H E
5131ΔBergstrom R J ◎
5137ΔO'Hara J C ◎
5147ΔHokanson W L ◎
5148ΔTurner R B ◎
5156ΔKendrick F A ◎
5157ΔThornton C H ◎
5162ΔRudman C G Mrs ◎
5163ΔWieger K F ◎
5169 Ramsey W R ◎
5175ΔPumphrey R L Mrs
rear Sharpless H H ◎
5202 Simons M A
5209ΔStafford G H ◎
7201 Turner C L ◎
7207 Cooper M V ◎
7219 Dapeer H E ◎
7225 Walton V F ◎
7237 Ledford L O ◎
7243 Burley L B ◎
7249 Richmond J L ◎
7255 O'Brien R W jr ◎

BERLIN (Old Town) — Northwest from 3200 Locust

BERMUDA AV (Ocean Beach) — Northwest from Santa Barbara, 1 n of Point Loma av
4424ΔHebert C P ◎
4437ΔPeterson Edwin
4445ΔBlair R J ◎
4435ΔMayfield P L ◎
4460ΔCherry P D ◎
4461ΔCampbell Clinton ◎
4469ΔYetter S E ◎
Guizot intersects
4519ΔMilton V A ◎
4521ΔBurdick Jos ◎
4528ΔCroker D M ◎
ΔSmith P M ◎
4536ΔAaron R L ◎
4542ΔOrrick R W ◎
4546 George J A
4548 Hogan C E
4558ΔTamm G A ◎
1568ΔSieckman Frank ◎
4575ΔRother C J ◎
1575½ Bryan Bianca Mrs
4576 Kucharski G O Mrs ◎
4584ΔHann M T ◎
4585ΔBodmer H F ◎
Froude intersects
4612ΔThornely A C ◎
4622ΔJepson P M ◎
4631 Milligan J B
4632ΔSmith J F ◎
4635ΔCoombs G F
1640ΔClark C L ◎
4651 Simpson F E
1655ΔDouglass P M ◎
1659 Paslay V L Mrs
1664ΔKelley Gordon ◎
4669ΔCrocker L L ◎
4670ΔHipple W G ◎
4676ΔRuskewitch A P ◎
4684ΔClarke Mary E ◎
4685 Radovitch G B
4694 Brackelsberg M C
4704ΔMc Cartney Thos ◎
4705ΔEverett Archie ◎
4711ΔWalsh Bernard
4712ΔRife H L ◎
4718ΔPerry T R
4719ΔEngland Marv Mrs ◎
4720 Heffern K W A
4722 Vacant
4730ΔLoughrey J A ◎
4733 Vacant
4735ΔCook F R
1740 Parsley E M
4742ΔClark J B
4746ΔRich Julius
4749ΔCovery G M ◎
4754ΔFlemming Josie Mrs
4759 Dean W I ◎
4760 Vacant
4783ΔJones O C ◎
4784 Bailey W D
Sunset Cliffs Blvd intersects
4818 Anderson J M Mrs
4822 Calvin Alice Mrs ◎
4826 Small E A ◎
4837 Bergman W A
4844 DiGregorio D C
Dougham Barry
ΔRitchey A M ◎

BERNICE DRIVE (Ocean Beach) — West from 2 blks n of 2550 Chatsworth blvd
3804ΔShatto C R music tchr
3811ΔGudmundson H L ◎
3812ΔHale C F ◎
3821ΔIngham F A ◎
3827ΔBehrendt J W
3828ΔGoddard G N ◎
3835ΔWisham C L ◎
3836ΔGuerrant C J ◎
3843ΔHollenbeck Marie Mrs ◎
3844ΔDuffy C G ◎
3851ΔHazelett J M ◎
3852ΔNorris G G ◎
3859ΔLong J B ◎
3860ΔHerbert Hardy ◎
3903ΔHultgren Helge ◎
3904ΔMitchell S E ◎
3911ΔHolt L O ◎
3912ΔDukett E R ◎
3919ΔMiller W M ◎
3920ΔDe Beck Oscar ◎
3927ΔBussey R A ◎
3936ΔRiese W H ◎
3943ΔDiskey F G ◎
3954ΔRodriques O C ◎
4021 Beeson W E
4031ΔConger J D ◎
4037ΔWatson J D ◎
4045ΔUlrich Geo ◎
4055ΔCrowe R A ◎
4065ΔMadruga G F ◎
4077ΔHouston S O ◎

BERTING (East San Diego) —North from 5400 El Cajon blvd
4415ΔCosgrove J S ◎
4425ΔFlath Fred ◎
4426 Neild H L
4433ΔGibson H E ◎
4434ΔHarding W J ◎
4441ΔRoyer C L ◎
4455ΔSnyder C C ◎
4461ΔTussey C E ◎
4463ΔJenkins R J ◎
4473ΔBayless E C ◎
4474ΔMaker C N ◎
4485ΔFavel C H ◎
4486ΔClarke F B ◎
4492ΔPark D R
4493 Shapiro Harry
4496ΔJung Fred ◎
Gilbert dr intersects

BERVY (North San Diego) — Northwest from 4500 Empire, 1 s of Gardena av
1720 Eccles S F ◎
1736 Remmerede Louis ◎
1737ΔSaunders R J ◎
1738 Kluge A D
1745 LaSchelle Walter ◎
1755 Small V A ◎

BERWICK AV (Roseville) — East from 3750 Del Mar av

BERYL (Pacific Beach) — East from 4900 Ocean blvd
738 Boyer M L Mrs ◎
Wilson Pierre
819ΔHickman J A W ◎
827ΔLesher R A ◎
834ΔLaBaume F H ◎
835 Wyborney E H
843ΔHall A J real est
844 Johnson W M ◎
852ΔLower F J ◎
860ΔHarper O W ◎
867ΔMinder W T ◎
868ΔBlazer R J ◎
Bayard intersects
901ΔChambers F R ◎
915ΔSeaside Court
Correll Earl
Cowan A H
Ellis W F
Perry P E Mrs

BAY FRONT ST 1943

BARR AV—Contd
905 Evenson F F
911ΔManley D V R jr ◎
916ΔStrasburg W J jr ◎
922 Edwards R S ◎

BAY FRONT—Southeast from Sigsbee to Sampson, 1 s of Colton
1995ΔSun Harbor Packing Co canners

BAY VIEW AV — North from 3700 A

BAY VIEW COURT (Mission Hills) — In semicircle from 1 blk e of 4000 St James pl, 1 s of Sheridan
4047ΔHeath Winifred R ◎
4051ΔRocle R E ◎

BAYARD (Pacific Beach) — North from 1 blk s of 900 Pacific av
4000 Wilson T W
4005ΔScripps T O ◎
4036 O'Malley J R
ΔScripps S E Mrs ◎
4121 Wilshire D M Mrs
Oliver av intersects
4225 Strgron C A
Reed av intersects
4316 Davies Conway
4317 Heim F W
Tourmaline intersects
4406 Moos L R
4408ΔMichel R J
4410 McGuffey L T
4412 Anderson R D
4425 Connell Robt
4435 Gale M H
4441 Leggert C W
4630ΔMakepeace A D ◎
4679 Johnson P E E ◎
4815 Rice-Wray V D C
4916 Robinson M O Mrs ◎
4935 Ronayne G B ◎
4937 Taylor Orrin
Law intersects
5126 Naughton W J
5130 Donahoe D J
5134 Mosone G J
5138 Carter J W
5150ΔEisenberg Irving
Harshfield Bryon ◎
Turquoise intersects

BAYONNE (Pacific Beach)
3423ΔOtt L F
3428ΔBulford S S
3454 Peterson J S
La Cima dr intersects
La Mancha dr intersects
3611ΔRobinson W A ◎

BAYSIDE LANE (Mission Beach)—Northeast from Mission blvd to Pacific av along Mission Bay front
2672ΔSteil G H ◎
2674 Johnson Mercedes Mrs
2696ΔPease H M
2759ΔPlummer L E
2764ΔSmith Saml ◎
Weitzman Hyman
2768 Fleming J G
2822 West P W Mrs ◎
2830ΔCrouse L P Mrs ◎
2862 Henson K H
2870ΔHult E B
3274 Loften Louise
Jamaica ct intersects
Santa Barbara pl intersects
3442ΔBirch Matthew
Liverpool ct intersects
3524 Zamiska J J
Monterey ct intersects
3538ΔWhite H J
3546ΔHolmes Lester
3580ΔPayne Harold ◎
3590 Leckie J C jr
San Juan pl intersects
3648 Pearson Wm
Plymouth ct intersects
3727 Nicholas Milton ◎
3729 Jones Gordon
3732 Vacant
Pismo ct intersects
3763 King T C
3771ΔClore Mary E
3774ΔBrotzman H H ◎
3776ΔDrew R A ◎
3777 Sieverling P K Mrs
3783 King Eliz E
Rockaway ct intersects
3812 See E H
3841 Lawrence Hudson ◎
3841½ Koulor Gus
3844 Vacant
3845 Daneke Geo
Sunset ct intersects
3852 Petersen L J

BAYSIDE WALK (Mission Beach) — North from Aspen ct, 2 e of Mission blvd
2622ΔHarris Geo
2632ΔFoerster C J ◎
Anacapa ct intersects
Allerton ct intersects
2696ΔWilkins E J
San Luis Rey pl intersects
2709ΔMueller S H ◎
2715ΔCurrier W J ◎
Avalon ct intersects
2726ΔArcher C A ◎
Balboa ct intersects
2741ΔKellogg J O ◎
2758ΔPatten C R ◎
2760ΔPeyton G L ◎
2766ΔRandall Clara L ◎
Brighton ct intersects
2774ΔSteed G B
2776ΔSours P J ◎
2778 Emmitt G D
2790ΔSmith L W
Capistrano pl intersects
2830ΔButson L E Mrs
Cohasset ct intersects
Coronado ct intersects
Deal ct intersects
2886ΔJohnson W F
San Gabriel ct intersects
2912ΔGwynn F H
2916 Vacant
Devon ct intersects
2930 McCormick Michl
2932ΔPearson H E
2940 Underwood Amanda E ◎
2944ΔClark W F ◎
Dover ct intersects
2962 Chambers E N Mrs ◎
Ensenada ct intersects
3216 Vacant
3220 Marr Madelyn Mrs
3236ΔCrie E P ◎
3240 Keach R D
3246ΔPrickett W W ◎
3246½ Mann N H
Isthmus ct intersects
3266ΔLittler S F ◎
3274 Shuffler Louise Mrs
3276 Coley W B ◎
3278ΔJenks Fredk
3286 Chase K W
3288 Corbett J H
3291 Vacant
Jamaica ct intersects
3310 Stuart H H
3312 Kirchem P J
3314 Sommer P N
3328ΔMann W H ◎
3343ΔEdwards A C ◎
3357 Hilton J H
3362 Powell C S ◎
Kingstown ct intersects
3374ΔElledge R R ◎
3380ΔCoker John ◎
3392ΔHorner R E J ◎
San Luis Obispo pl intersects
3408ΔBigelow Harriet Mrs ◎
3410 Kinne F M
3416ΔWild R C
Liverpool ct intersects
3434ΔEdwards H J ◎
3462 Krieger P R ◎
3468 Adams A H ◎
3482 Burdette J B ◎
Manhattan ct intersects
3544 Ross H C
3546ΔBarto T M
Nahant ct intersects
3560ΔPourade E K
3562 Bearinger A W Mrs
3564 Wiegle Eddie
Nantasket ct intersects
3584 Maxwell J N
3587 Struck T D
3591ΔCoppock C E
San Juan pl intersects
3610ΔSmith L T ◎
3614ΔSimmons J W ◎
3620 Klint Lavergn
3624ΔPaskowitz Louis
3633ΔEdwards Hilma Mrs ◎
3638ΔHarbin L C ◎
3644ΔAnthony E N ◎
Ormond ct intersects
3648ΔHughes E C
3656ΔDeBarris Frank ◎
3660 Hammond W E ◎
3666 Munn Jeanette
West Eva
Ostend ct intersects
3676ΔRebecchi Mario
3680 Grabbit L P
3684 Markley H F
3688ΔWilke A L ◎
3696 Leitch Susie Mrs ◎
Santa Clara pl intersects
3720ΔCasbere Bruce ◎
Portsmouth ct intersects
3732 Vacant
3736 Vinson Ferris
Pismo ct intersects
3740ΔMatheson B O
3746 Ambrose Geo
Queenstown ct intersects
3756 Asher J M ◎
3764 Stewart F E
3766 King E W
Redondo ct intersects
3768 McKay T A
3770 Darley R W
3774ΔHuntamer J V ◎
3784 Vacant
Rockaway ct intersects
3786 Vacant
San Jose pl intersects
3788ΔDeCuena G O Mrs
3804 Vacant
3816 Vacant
Salem ct intersects
3826ΔBrown D W
3834 Vacant
3834½ Vacant
3836 Payne Thos
3848 Sullivan L E ◎
Sunset ct intersects
3854ΔPurcell G E
3856 Earle Margt ◎
Tangier ct intersects
3862ΔClickner E A
3864ΔCallahan E O Mrs ◎
Toulon ct intersects

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BELT ST 1943

BEECH—Contd
3112ΔChestnut W N
3114ΔHoward J F
3120ΔDean E F
ΔHegwood R F
3121ΔMaire L C ◎
Bancroft intersects
3252 Trenker Jos ◎
3254ΔGraney L W ◎
3258ΔShellenberger E T Mrs
3265 Butler Eug
33d intersects
3308 Harris J E ◎
4712 Proffer E F ◎
4720 Dickenson C A Mrs ◎
Dickenson W A ◎
4728 Ward J F ◎
4738 Mayer E J ◎
4741 Morris B J
4746 Evans Chas
4760 Wernsing H L ◎
4769 Priddle F J
4804 Fiddler G R ◎
4838 Lane D H

BEECH, WEST — West from 1500 1st av
118ΔGoldkamp S C
120 Mers O L
145 Abbott F C Rev
151 Free Methodist Ch
Front intersects
220 Matteucci Anthony
222 Derrick W I
240 Sullards R W
242 Rabello E I
244 Perrone Antonio
246 LaPlante A T
Union intersects
319 Di Maggio Jos
340 Payne C C
342 De Nault H J
State intersects
406 Martin F M
408 Horton C J
412 Reynolds Ray
414 Barone A F jr
416 McDonald Millie Mrs
427ΔYoung J E
Columbia intersects
514 Lograsso Jos
520 Asaro Jos
525 Principate Angelo ◎
India intersects
640 Berry Gus
640½ΔBrumley H B Mrs
Kettner blvd intersects
726 Grand Rapids Home Furnishing Co whse
735ΔOlsen D L ◎
California intersects
820 Aleto Jose ◎
Pacific blvd intersects

BELL COURT (Linda Vista)

BELLE ISLE DRIVE (East San Diego) — South from Isla Vista dr, 1 e of Euclid
3204ΔSavary C B ◎
3212ΔRaff Burney ◎
3221ΔFranklin S M ◎
3222ΔKraynik M C ◎
3227ΔHolt I D Mrs
3230ΔVandersyde E G ◎
3236ΔBerg Allen ◎
3244 Scheidle F A
3250ΔWeber Roy ◎
3251ΔChapin Helen L ◎
3261ΔSmith J A ◎
3262ΔHumiston O F ◎
Thorn intersects
3304ΔFlanagan E C Mrs ◎
3314ΔHuff H D ◎
3315 Boss A R ◎
3320ΔBaker H O ◎
3323ΔDunning E H ◎
3333ΔSchuler Aug ◎
3336ΔEccles R L ◎
3344ΔVaughan B C ◎
3345ΔFruitt D O ◎
3403ΔEmigh C W
3404ΔTerwilliger H B
3411ΔSmith O L ◎
3412ΔMerrick J S ◎
3422ΔDouglass P H ◎
3428 Gregovich R R Mrs ◎
3434ΔCohen Wm ◎
3435ΔPolk J K
3439ΔHeinz Alvin
3443ΔWenman G E
3458ΔNeely W G ◎
3462ΔBella W S ◎

BELLEVUE AV (La Jolla) — North from 900 Colima
5421ΔNebel-Thau F G ◎
5441ΔFinch B S ◎
5444 McGlothlin C W
5448 Foster J H
5454 Ladd R R
5470ΔVaterlaus J H ◎
Midway intersects
5537ΔSnyder Dorothea Mrs
5545ΔTorstrup Aug ◎
5571ΔEmanuel H W
Forward intersects
5611 Kennedy H E ◎
5641ΔHall A F music tchr
5645ΔHarrell A E
5659 Vacant
5664ΔBrowne E R
5669ΔCalkins Marguerite Mrs
Bird Rock av intersects
5711ΔCarter H E
5724ΔWahlberg R A
5762ΔMerriam W H
Camino de la Costa intersects
La Canada intersects
5915ΔBrown H F
5921ΔSteckler J R ◎
5959ΔCrow Wayman ◎
6001 Rice J W jr ◎

BELLINGHAM PLACE (East San Diego) — Southeast from 3550 Myrtle av

BELMONT AV (Normal Heights) — East from Mountain View dr, 2 n of 3800 Adams av
3801ΔEly Robt ◎
3811ΔAdamson A A ◎
3812ΔIrwin F Q ◎
3819ΔHinrich Francisca Mrs ◎
3828ΔBabcock L R ◎
3829ΔErwine S D ◎
3832 Orr Annie
3839ΔSkinner J E Mrs ◎
3844ΔSnyder P H ◎
3853ΔHoward A L Mrs ◎
3858ΔWidenor M M ◎
3861ΔSouthwick Harriett L ◎
3866ΔMoore B C ◎
3867ΔChambers J H ◎
3875ΔPrentice C A ◎
3876ΔMcConnell J B ◎

BELT — North from 1000 West F, 3 s of Broadway
Grape intersects
Hawthorn intersects
2110ΔBernardini Maurice restr
2145ΔKelco chemicals
Juniper intersects
2412ΔWestgate Sea Products Co
Laurel intersects

BELVEDERE (La Jolla)—East from 3 blks w of 7050 La Jolla
324ΔDevlin D S ◎
325ΔClark M C ◎
331ΔMitchell M B Mrs ◎
340ΔAtkinson C F ◎
351ΔBrown J P
358ΔLaw Winifred H
Monte Vista av intersects
405ΔAcker P C ◎
407ΔBunyard G H ◎
418ΔElliott E E ◎
424 Courtney F T ◎
440ΔCrutchfield W H ◎
447 Seidel U D ◎
450ΔBiebush F C ◎
La Jolla blvd intersects

BENICIA (North San Diego) — North from 2 blks s of 5500 Gaines
1236 Wiggins T W

BENSON — Northwest from Linwood to Brookes av

BENSON AV (Encanto)—East from ½ mi w of 65th, 4 s of Imperial av
6611 Vacant

BENTON PLACE (Normal Heights) — North from 3550 Mountain View dr
5111ΔLombard E L ◎
5112ΔMac Lean K A Mrs ◎
5117ΔMallory J D ◎
5127ΔEllis H E ◎
5131ΔLowrie W B
5137ΔSmith O L
5147ΔHokanson W L ◎
5148ΔPace L R
5156ΔKendrick F A
5157ΔRoehl H W ◎
5162ΔRudman C G Mrs ◎
5163 Schenck J K ◎
5169 Ramsey W R ◎
5175 Sharpless H H ◎
5202 Peterson R E
5209ΔStafford G H ◎

BERLIN (Old Town)—Northwest from 3200 Locust

BERMUDA AV (Ocean Beach) —Northwest from Santa Barbara, 1 n of Point Loma av
4424ΔHebert C P ◎
4437 McKeen J E ◎
4445 Yoshonis G A
4452ΔRoque J C ◎
4453 Mayfield P L
4460 Crane C H
4461ΔMontville A P
4469ΔCochrane D A
Guizot intersects
4519ΔHegerley I A
4521 Burdick J C
4528 Owen O E
4542 Orrick R W
4546 Wiseman Wm
4548 Vacant
4568ΔSieckman Franklin ◎
4575ΔAdams H D
4576 Kucharski G O Mrs
4577 Kaness H R ◎
4584 Hann J M ◎
4585ΔBodmer H F Mrs ◎
Froude intersects
4612ΔThornley A C ◎
4619 Hellman J G
4622ΔJepson P M ◎
4631ΔMilligan J B ◎
4632ΔSmith J F ◎
4635ΔDuffy J C ◎
4640 Mayne M C ◎
4646ΔNance C E ◎
4651 Tipton H L

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BAY FRONT ST 1938

BARNETT AVE—Cont
US Marine Corps Base
3502ΔUnion Serv Sta gas sta
3518ΔMoore T M fish bait
3602ΔBolas Peter restr
3610 Vacant
3620ΔStandard Stations Inc serv sta

BARNSON PLACE—East from 2710 Brant
2700ΔHowe A H
Venton F J (o)
2705ΔJackman B W Mrs (o)
2725ΔDavison R W S (o)
2735ΔDunn G T (o)
2745ΔDennis F L (o)
2766 Verner A L (o)

BARR AV (Mission Hills)—West from 4300 Dove
824 Scott J M
827ΔBullock V E
830 Lorth Emma Mrs
Goldfinch intersects
905ΔEvenson F F (o)
911ΔO'Brien M J
916ΔAnderson R P
922ΔBellon Walter jr

BAY AV—East from 1500 S 29th
3104 Lands J P
3110 Brennen W K
3116 Wilson Irene Mrs
3118 Harrison P I
3118½ Schleifer Donald
3164 Cooper Edw
Kaiser Wm
3168ΔPreslin W A (o)
3175ΔRomero Mike (o)
3181 Johnson O D (o)
32d intersects

BAY FRONT—Southeast from Sigsbee to Sampson, 1 s of Colton
ft of Sampson San Diego Marine Construction Co
1860ΔSchadek J A marine salvage
1995ΔSun Harbor Packing Corp

BAY VIEW AV—North from 3700 A

BAY VIEW COURT (Mission Hills)—In semi-circle from 1 blk e of 4000 St James pl, 1 s of Sheridan
4047ΔHeath R W Mrs (o)
4051ΔRocle Romain (o)

BAYARD (Pacific Beach)—North from 1 blk s of 900 Pacific av
4004ΔScripps S E Mrs (o)
Wilson T W (o)
4005ΔScripps T O
4121ΔTichenor L S (o)
Oliver av intersects
4225ΔScripps F T jr (o)
Reed av intersects
Tourmaline intersects
Law intersects
5150 Mack J J
Turquoise intersects

BAYONNE (Pacific Beach)
3428 Vacant
3611 Vacant

BAYSIDE LANE (Mission Beach)—Northeast from Mission blvd to Pacific av along Mission Bay front
2622ΔDyer L Q
2672ΔSteil G H
3262 Cole Saml
Jamaica ct intersects
Santa Barbara pl intersects
3442 Troop M F
Liverpool ct intersects
3524 Curren Roland
Monterey ct intersects
3538 Jackson N D
3587 Vacant
San Juan pl intersects
3590 Hartung Emilie Mrs (o)
Plymouth ct intersects
3729 Oakes Louis
3732 Vacant
3735 Sharp Stella M (o)
Pismo ct intersects
3771 Carter D A
3774 Vacant
3776ΔDrew R A (o)
3777 Sieverling P K Mrs
3783 Vacant
Rockaway ct intersects
3834 Vacant
3841 Jenkins C W
3841½ Hottenstein H F
3844 Mowers C L Mrs
3845 Upmeyer L J
Sunset ct intersects
3852 Vacant
3875 Vacant

BAYSIDE WALK (Mission Beach)—North from Aspen ct, 2 e of Mission blvd
2632ΔHeskett Martha Mrs (o)
Anacapa ct intersects
Allerton ct intersects
2696 Vacant
San Luis Rey pl intersects
2711 Ryan W J
Avalon ct intersects
2726ΔKahn H L
Balboa ct intersects
2766ΔRandall Clara L (o)
Brighton ct intersects
2774 Covington G A
2776 Sours P J (o)
2778ΔFink A H
2790ΔZahn O L
Capistrano pl intersects
2830 Miller F D
Cohassette ct intersects
Coronado ct intersects
Deal ct intersects
2886ΔBenton R H (o)
San Gabriel ct intersects
2912 Stockham H D
Stromberg B H Mrs (o)
Stromberg J H
2916 Gardner J A (o)
Dover ct intersects
2930 Eisenhardt E E Mrs
2932 Faultus R G
2940 Randall N E
Underwood Amanda E (o)
Dover ct intersects
2962 Chambers E N Mrs (o)
Ensenada ct intersects
3240 Lohman Theo jr
Isthmus ct intersects
3266ΔLittler S F (o)
Jamaica ct intersects
3310ΔJumblatt A F (o)
3328ΔMann W H (o)
3343 Peyton J W
3357ΔVeysey C H (o)
Kingstown ct intersects
3374 Elledge R R (o)
3380 Ball P A Mrs
Gollehur L B (o)
3392ΔHorner J R E (o)
San Luis Obispo pl intersects
3408 Rasmussen A P Mrs
Lido ct intersects
Liverpool ct intersects
3462 Willard L G
3482ΔDanielson Edw
3486 Fowler C K (o)
Manhattan ct intersects
3544 Gibson M J
3546 Tobey C W
Nahant ct intersects
3560ΔWalton D B (o)
3562 Bearinger T F
3564 Hall E W
Nantasket ct intersects
3580 Baxley Emma Mrs
3584 Baumgartner F H (o)
3591 Montgomery C L
San Juan pl intersects
3610 Smith L T (o)
3614 Paskowitz Louis
3620ΔBennett W H
3624 Nelson S P
3633ΔEdwards Hilma Mrs (o)
2638 Harbin L C (o)
3644 Anthony E N (o)
Ormond ct intersects
3648 Cary H F
3656ΔDouglas Harry
3660 Perkins J H Mrs
3666 Richter C H
Ostend ct intersects
3676ΔDemerest R C
3680ΔJones H G jr
3684 Vacant
3688 Wilke A L
3696ΔLeitch Susie Mrs
Santa Clara pl intersects
3720 Casbere Bruce (o)
Portsmouth ct intersects
3732 Vacant
3736ΔEng R L
Pismo ct intersects
3740 Skelley W L
3746 Vacant
Queenstown ct intersects
3756 Asher J M (o)
3764 Larson O H
3766 Einolander A C
Redondo ct intersects
3768 Breen Paul
3770 Hagemann J H Mrs
3774 Huntamer John
3784 Shanks R B
Rockaway ct intersects
3786 Vacant
San Jose pl intersects
3788 De Cunea Grace O
3798 Polson J B
3810 Jacobs Grace Mrs (o)
Salem ct intersects
3816 Banks G W
Slater Norman
3826 Vacant
3834 Vacant
3834½ Lang H J
3836 Payne Thos
Sunset ct intersects
3854 Vacant
Tangier ct intersects
3862 Clickner E A
3864 Freeman C P
Toulon ct intersects
3874 Ford Elmo (o)
3880 Young B E Mrs (o)
3884 Hamblin J B
Vanatie ct intersects
3886 Anderson Anders
3896 Seley G R (o)
San Rafael ct intersects
Verona ct intersects
3902 Vacant
3930 Clarke J E (o)
3936 Bayless A A
Whiting ct intersects
3946 Gleason Michl (o)
Windemere ct intersects

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-	✓	San Diego Directory Co.

BELT ST 1938

BEECH, WEST—Cont
222 Culling V A
240 Fielder Donald
242 Cohen Geo
244ΔMelzer Augusta Mrs
246 McDonald Harry
Union intersects
319 Castro Sol
322 Hall O D
Wells J E
340ΔTighe T J (o)
State intersects
406 Urbe W F
412 Whole Ralph
414 Coats E A
416 Vacant
427 Quinci John
Columbia intersects
506 Lograsso Calogero (o)
514 Lograsso Jos
520 Murillo J V
525ΔJanuario Jose
India intersects
640 Murillo Mary Mrs
640½ Delaney P J
641 Vacant
Kettner blvd intersects
735ΔOlsen D L (o)
California intersects
820 Martin John
Regenstein Rosendo

BELLE ISLE DRIVE (East San Diego)—South from Isla Vista dr, 1 e of Euclid
3212ΔMartin J L
3221ΔFranklin S M (o)
3222 Kraynik M C
3227 Holt Ida Mrs
3236 Vacant
3251ΔChapin Helen L (o)
3261 Vacant
3262 Vacant
Thorn intersects
3304ΔFlanagan F J (o)
3315 Cocking F W
3320ΔVeltman M C
3333ΔSchuler Aug
3336 Eccles R L
3345ΔFruitt D O
3403ΔBrown M J
3411ΔNelson L L (o)
3422ΔDouglass P H (o)
3428ΔBull H W (o)
3434ΔCohen Wm (o)
3435 Polk J K
3443ΔMacy W E
3458ΔNeely W G (o)
3462 Bella W S

BELLEVUE AV (La Jolla)—North from 900 Colima
5421ΔNevel-Thau Anna Mrs (o)
5444 Golem H G
5448ΔHansen H A
5454 Ladd R R
5470 Vaterlaus J H (o)
Midway intersects
5537ΔKennedy H E (o)
5545 Torstrup Aug (o)
5571 Robeson R G
Forward intersects
5611 Campbell M A Mrs
5641ΔHall A F music tchr (o)
5645 Vacant
5659ΔKollock F N (o)
5664ΔJones M M Mrs
Jones W A (o)
5669ΔHaskell D B (o)
Bird Rock av intersects
5711ΔBrown G F (o)
5724ΔAllen A H
5762 Vacant
Camino de la Costa intersects
La Canada intersects
5959ΔCrow Wayman (o)
6001ΔSkinker Isabella N (o)

BELLINGHAM PLACE (East San Diego)—Southeast from 3550 Myrtle av
3551 Ray Susan Mrs

BELMONT AV (Normal Heights)—East from Mountain View dr, 2 n of 3800 Adams av
3801ΔEly Robt
3811 Edwards F H
3812 Alexander G O
3819ΔHinrichs G H (o)
3828 Babcock Joy M music tchr
ΔBabcock L R (o)
Babcock M A Mrs music tchr
3829ΔErwine S D (o)
3832ΔToms H I Mrs
3839ΔSkinner Clara E
3844ΔSnyder P H (o)
3853ΔHoward Alice Mrs (o)
3858ΔWidenor M M (o)
3861ΔBacon A B Mrs (o)
3866ΔMcLain A H
3867ΔChambers J H (o)
3875 Knapp A K
3876ΔBrown E R

BELT—North from 1000 West F, 3 s of Broadway
1828ΔHarbor Boat Works
Grape intersects
Hawthorn intersects
2110ΔBernardini Maurice restr
2160ΔState Dept of Health Bureau of Cannery Inspection
2162ΔBowman R W cleaning compounds
ΔLinderfelt K E indstrl eng US Naval Reserve
2166 Vacant
2272ΔCalifornia Packing Corp canners
Juniper intersects
2412ΔWestgate Sea Products Co canners
Laurel intersects

BELVEDERE (La Jolla)—East from 3 blks w of 7050 La Jolla blvd
331ΔMitchel M B Mrs (o)
331a Pinco Chas
340 Diller F J W
351ΔJohnson I F Mrs (o)
358ΔAllely G P Mrs
Monte Vista av intersects
405ΔAcker Philip (o)
407 Doscher Lillie A E
418ΔElliott E E
424ΔShaw Mary
450ΔChase A H
La Jolla blvd intersects

BENICIA (North San Diego)—North from 2 blks s of 5500 Gaines
1920 Gonzales Josephine Mrs

BENSON AV (Encanto)—East from ½ mi w of 65th, 4 s of Imperial av
6611 Vacant

BENTON PLACE (Normal Heights)—North from 3550 Mountain View dr
5112 Maclean H G (o)
5117ΔBerry J P (o)
5127ΔEllis H E (o)
5131ΔBristol E E (o)
5137ΔFowler J S (o)
5148ΔAnderies Walter
5156 Kendrick F A
5157ΔFrakes R S (o)
5162ΔRudman Cecella Mrs (o) drsmkr
5163 Doud Ethel Mrs (o)
5169 Ramsey W R (o)
5175 Sharpless H H (o)
5202 Winer L K
5209ΔSouthwick Harriet L (o)

BERLIN (Old Town)—Northwest from 3200 Locust

BERMUDA AV (Ocean Beach)—Northwest from Santa Barbara, 1 n of Point Loma av
4424ΔHebert C P (o)
Guizot intersects
4519 Williamson D B
4542 Stixrud E T (o)
4546 Craig I W
4548 Thompson M E
4568 Insley C H
4575 Kaness H R (o)
4585 Bodmer Hazel Mrs
Froude intersects
4612 Thornley A C (o)
4619 Cochrane D A
4622 Belcavitch Chas (o)
4631ΔMilligan J B (o)
4646 Nance C E
4651 Scott R E
rear Hubbard C F
4655ΔDouglass P M
4659ΔSchlegel H I (o)
4664 Zuern A E (o)
4669ΔKoch G C (o)
4676ΔLeonard W B (o)
4684 Clarke Mary E (o)
4685 Bailey G E
Ebers intersects
4704 Vacant
4711 Walsh B B (o)
4722 Carl D D (o)
4730ΔLoughrey J H (o)
4749 Convery G M (o)
Sunset Cliffs blvd intersects
4826 Dupree H M (o)
4837 Bergmann Margt
Healey Irene C
4844ΔCostello D M Mrs
Richardson Lola Mrs

BERNICE DRIVE (Ocean Beach)—West from 2 blks n of 2550 Chatsworth blvd
3804ΔBourdon L R
3821ΔFisk Francis
3920ΔTyler C G
La Cresta dr intersects

BERRY (Encanto) — Southeast from 6800 Mt Vernon
1210 Stanley Benj
1515ΔMayer S F (o)

BERTING (East San Diego)—North from 5400 El Cajon blvd
4415 Kniffing John (o)
4455ΔSnyder C C (o)
4461ΔTussey C E (o)
4463ΔOsborn C G
4473ΔBayless E C (o)
4474ΔPhillips W T
4485ΔLandis G M Mrs
4486ΔMorris B B (o)
4496ΔGriffiths E J (o)
Gilbert dr intersects

BERVY (North San Diego)—Northwest from 4500 Empire, 1 s of Gardena av
2402 Corkery Frank
2410 Mitchell John
2524 Remmerde Louis
2541 De Barris Frank (o)
2549 Stevens C W (o)

BERWICK AV (Roseville)—East from 3750 Del Mar av

BERYL (Pacific Beach)—East from 4900 Ocean blvd
834ΔLa Baume F H (o)
Bayard intersects
901ΔChambers F R (o)
Seaside Auto Court

TP	Adjoining	Source
-	✓	San Diego Directory Co.

BELT ST 1933

643 Beck Peggy Mrs nurse
645 Scarlet Wm
647 Vacant

7th av intersects

710 Brownlee May Mrs
Camden R P
Carter W L
Gilbreath Allee Mrs
Herbert Reginald
Jagosz Stanley
Knox Eug
Leach John
719 Werner Carl
730 Abbott F H Mrs
Bordner J H
Corrigan Teresa
Cushing Lelia Mrs
Emerson Anna S nurse
Hague Emily Mrs
Johnson F B (o)
Kindred Wm
Manning Marguerite
Rice Lucy Mrs

8th av intersects

802 Kennedy H U
804 Morgan H H
806 Stepp J F
808 Shuman Jacob
815 Walbreck Pauline M gro
816 Turrentine H B
820 Sullivan J F
831 Vacant
833 McDonald Athalia Mrs
835 Vacant
848 **Kentucky Apartments**
Hunold Grace B
Munch Luella (o)
Notte John
Winkowski Alfons

9th av intersects

914 Vacant
917 Rauch Julius
Waibel A P
Worth Fredk
942 **El Roberto Apartments**
Bierly Fred
Bouvett Jane A
Farrell M J
Fichtner Grace Mrs
Gasser Rudolph
Harriss M L
Hart Jas
Hood Hazel Mrs
Keen J E
La Fave S J
Looper Onn
Mann S S
Mayfield E B
Melaney E E
Miller G E Mrs
Mills B V
Ness L T E
Page L B
Peters L J
Powell John
Prosser Margt Mrs
Roberts W M (o)
Sconce F N
Shoop G G
Simmons A J
Toney B F
Upham Patricia Mrs
Voyce L A Mrs
Weed Harry
Young A D

10th av intersects

Balboa Park (not open to 28th)

28th intersects

2832 Griffin C O (o)

Granada av intersects

2850 Biehl F E Mrs (o)
2855 Vacant

29th intersects

2906 Cooper G E
Wismer A M Mrs (o)
2911 Wintrow H M (o)
2938 Gallagher R D

Dale intersects

2953 Ideal Stores
Keeland Rex meats
2961 Ransdell H E baker
2963 Swanson A F Mrs beauty shop
2965 Henry Curtis clo clnr
2969 Peiper F J barber
2970 Cafky J G gas sta
Margison J B auto repr
2971 Steinbach Max restr
2973 Leasure Parlie Mrs dry gds
2975 Selwyn M M Mrs meats
2985 MacMarr Stores gro

30th intersects

3009 Langley Bert soft drinks
3009½ Marquette S C
3011 Cook A W clo clnr
3011½ Holman E Alice music tchr
3016 Cook Annie Mrs drsmkr
Markley P L phys
Rickenberg L R

Fern intersects
Grove intersects

3076 Vacant

31st intersects

3112 Robinson G E
3114 Panosh L C
3121 Maire L C (o)

Bancroft intersects

3252 Trenker Jos (o)
3254 Graney L W (o)
3258 Shuman Dora Mrs
3265 Lupien O G

BEECH, WEST — West from 1500 1st av

118 Grosse H R (o)
120 Young John
140 Lang Verna Mrs
145 Zahniser E S Rev
151 Free Methodist Church

Front intersects

220 Egbert Wm
222 Rasmussen R I
240 Brown H J
242 Cowan Robt
244 Hays I O
246 Murray C E

Union intersects

319 Castro Sal
322 Vacant
340 Tighe T J

State intersects

406 Urbe W F
408 Cameron G C Mrs
410 Baxter Thurman
412 Vacant
414 Palmer A F
416 Vacant
427 Melanese Andw

Columbia intersects

506 Lograsso Calvogero
514 Lograsso Jos
525 Januario Jos

India intersects

640 Redino John
640½ Tonini Jos
641 Vacant

Kettner blvd intersects

726 Vacant
735 Olsen D L (o)

California intersects

841 Yglesias Bros Inc excavating contrs
848 Gooden Edna Mrs

BELLE ISLE DRIVE (East San Diego)—South from Isla Vista dr, 1 e of Euclid

3227 Hampton Robt
3251 Chapin Helen L (o)
3261 Pedroncelli W J

Thorn intersects

3304 Amos G W (o)
3315 Archard J A
3320 Neukon D W
3403 Brown M J (o)
3428 Lough J H
3443 Gregovich R P (o)

BELLEVUE AV (La Jolla)—North from 900 Colima

5421 Vacant
5470 Vaterlaus J H (o)

Midway intersects

5549 Kennedy H E (o)
5563 Henry C J
5571 Bennett A W (o)

Forward intersects

5641 Hall A F music tchr (o)
5645 Vacant
5659 Thompson S W (o)
5664 Jones M M Mrs

Bird Rock av intersects

5711 Brown G F (o)
5724 Stent H N
5762 Shelnutt Z H

Camino De La Costa intersects
La Canada intersects

6001 Kenyon Karl (o)

BELLINGHAM PLACE (East San Diego)—Southeast from 3550 Myrtle av

3551 Vacant
3571 McAtlin M M (o)

BELMONT AV (Normal Heights)—East from Mountain View dr, 2 n of 3800 Adams av

3801 Gray P A
3811 Hennings R J
3812 Heiney Geo
3819 Hinrichs G H (o)
3828 Babcock L R (o)
Babcock May Mrs music tchr
3829 Erwine S D (o)
3830 Vacant
3832 Tayler G E
3839 Skinner Clara E (o)
3844 Snyder P H
3853 Howard Alice Mrs
3861 Miller J C
3866 Lawrie C L (o)
3867 Chambers J H
3875 Zahn J O
3876 Brown E R

BELT—North from 1000 West F, 3 s of Broadway

1828 Harbor Boat Works

Fir intersects
Grape intersects

2000 Bay Shore Cafe

Hawthorn intersects

2162 Cleveland M A vending machine mfr
Keever R A
Lobster Producers Assn whol fish
Marine Service Center
U S Navy Reserve Corps
Walsh M J mfg chemist

Ivy intersects

2272 California Packing Corp

Juniper intersects
Kalmia intersects

2412 Westgate Sea Products Co

Laurel intersects

BELVEDERE (La Jolla)—East from 3 blks w of 7050 La Jolla blvd

331 Mitchel Gaston (o)
331a Bridges Edith
340 Atkinson C F (o)
358 Vieths Eline A

Monte Vista av intersects

418 Parker A T Mrs
424 Rice M S (o)
450 McCauley J L (o)

La Jolla blvd intersects

BENESCH AV — Changed to Pickwick

BENICIA (North San Diego) — North from 2 blks s of 5500 Gaines

BENSON AV (Encanto)—East from ½ mi w of 65th, 4 s of Imperial av

6611 Sewell J E (o)

BELT ST 1927

Wagner Electric Service AUTOMOTIVE ELECTRICIANS

821 Arujo Ernesto
823 Najera J J
825 Noble Anna
828 Castro Salvador

Logan av
National av

1012 Amador Michl
1018 Vacant
1020 Rebas Estaban
1026 Rodriguez Adolpho
1032 Ochoa Antonia Mrs
1036 Flores Antonio
1042 Gomez B M
1046 Perato Frank

Newton av

1106 Hernandez Marie Mrs
1108 Flores Marie Mrs
1110 Estralla Avelino
1112 Miranda Josefa Mrs
1114 Lara Ernest

Main
Colton av

1339 Bolivar Packing Co olives

Railroad av

BEAUMONT AV—(La Jolla)—North from 700 Colima

5301 Anderson G A

Colima

5409 Vermaas Edna C
5459 Bohannon Earl
5477 Jackson Margt Mrs

Midway

5517 Vacant
5528 Booth W W
5545 Arey E H
5554 Sindlinger Herman
5563 Frevert A A

Forward

5605 Escher H J
5641 Gray E K Mrs

Bird Rock av

BEECH—East from 1500 1st

1st

119 Prendergast T W
137 Vacant

2d

216 Nichols M G Mrs
218 Chapin Helen L
220 Bradley I M Mrs
222 Donovan J A
224 Berry E J Mrs
Hutchinson Nellie A
227 Bobb R M Mrs
Macbeth Jennie Mrs
Slattery R M Mrs
229 Vacant

3d

346 St Joseph's Rectory
Brady Jno Rt Rev
Hurley Danl Rev
Lynch L A Rev

4th

412 Vacant
421 Scholl Frances Mrs
423 Supannick Arth

5th

506 Melanese Andreo
532 Bowen J N
Booth F R Mrs

6th

630 Scott C A
645 Vacant
647 Vacant

7th

710 Balluff J B
Kelton F E Mrs
Moore Nell
Neale E P Mrs
719 Vacant
730 Beeler Virlin
Clark Sophronia Mrs
Johnson F B
Meek F B

8th

802 Kennedy H U
804 Scholl W J
806 McNeilly W E
Sheehan M E Mrs
808 Vacant
815 Walbreck Pauline M gro
816 Bagby J W
820 Hudner W J
831 Thompson Jos
Thomson & Clark clo clnrs
833 Superior-Wheeler Cake Corp
835 Crawford L W shoe repr
848 Kentucky Apartments
Munch Luella Mrs

9th

914 McCulloch Hospital
917 Beran W J
Connelly Thos
Sypherd Lloyd

10th

Balboa Park
Not open to 28th

28th

2832 Griffin C O real est

Granada av

2850 Biehl Jno

29th

2906 Wismer A M Mrs
2938 Vacant

Dale

2953 Rosenthal Isadore
2961 Nicholson W M baker
2963 Singleton J H Mrs ladies furngs
Singleton Horace
Singleton Joshua
2965 Johnson Fred clo clnr
2967 Peiper F J
2969 Peiper F J barber
2970 Fanton R H gas sta
2971 Gallucci R W jwlr
2973 Rabsahl Emma Mrs needlework
2975 Hardy C S meats
2985 Heller's Inc gro

30th

3009 Warren Roy paints
3009 Wilson Martha Mrs needlework
3009½ Cook A W
Rickenberg L R
3011 Cook A W clo clnr
3016 Warren Leroy
Warren Roy

Fern
Grove

31st

3102 Bemis H J
3112 Darrah A H Mrs
3114 Lemcke Augusta Mrs
3121 Marie L C

Edgemont

3252 Finnigan Orin

32d

Bancroft

3254 Graney L W
3258 Dodge C F
3265 Steffgen C J jr

33d
Felton
Gregory
34th
Whaley av
35th
Pennell av
36th
McClellan av
Bay View av
37th
Parrot
38th
39th
40th
41st

BEECH—WEST—West from 1500 1st

1st

118 Mize J W
120 Ley Grace Mrs
Roberts M E Mrs
124 Davis O K
140 Lofthouse J M restr
145 Lowell L M Rev
150 Free Methodist Church

Front

220 Francis J H
222 Alhands H W
240 Watts H L
242 Storm D H
244 Vacant
246 Freeland H D

Union

319 Sharratt Lee
322 Archibald Fred
340 Tighe T J

State

406 Pickett E C
408 Lansing J C
410 Ryviers L B
427 Sandos Manuel
Soares Tony

Columbia

514 Valacio Tony
520 Lograsso Saml
525 Hallahan Michl

India

640 Grohs Mathew

Kettner blvd

735 Olsen D L genl contr

California

804 Williams Wm
820 Gooden E H Mrs
841 Noble Bert genl contr

Atlantic
Belt
Harbor

BELLEVUE AV (La Jolla)—North from 900 Colima

5421 Bosbyshell O M
5549 Coffman Hal
5563 Henry C J

BELLINGHAM AV (East San Diego)—Southeast from 3550 Myrtle av

BELMONT AV (Normal Heights)—East from Mountain View dr 2 north of 3800 Adams av

3801 Vacant
3811 Downing B O Mrs
Lesley J W
3819 Tucker J J
3828 Babcok L R
3829 Erwine S D
3832 Rose R E
3829 Skinner Clara E
3844 Ryan W A
3853 Howard H C
3866 Lawrie C L
3867 Chambers J H
3876 Schutte W H

Belmont av

BELT—North from 2 blks south of 1000 West F 3 blks south of Broadway

Harbor
F
E
Broadway
A
Beech
Date
Elm
Grape
Hawthorn

2162 Neptune Sea Food Co

TP	Adjoining	Source
-	✓	San Diego Directory Co.

BELT ST 1927

Yard and Wharf . . . . . Foot of 6th Street

BELT—Cont
2272 Calif Packing Corp fish canners
Juniper
2412 Westgate Sea Products Co

BELVEDERE (La Jolla)—East from 3 blk west of 7050 La Jolla blvd
340 Tschudi F N

BENESCH AV—East from 33d, 1 blk south of Broadway
33d
3306 Lopez Lorenzo
3320 Dyer F E
3336 Vacant
3343 Vacant
3351 Vacant
Benesch av
3354 Rios Florence
34th
3428 Furst Jno
3443 Shaffer C E
3451 Vacant
35th

BENICIA (North San Diego)—North from 2 blks south of 5500 Gaines
Yuma
Gaines
Mission Valley Hospital
Riley
Lauretta
Florentia
Linda Vista rd
Ruby

BENSON—Northeast from 1500 Linwood
Linwood
Guy
Puterbaugh

BENSON AV (Encanto)—East from ½ mile west of 65th, 4 south of Imperial av

BERLIN (Old Town)—Northwest from 3200 Locust

BERMUDA AV (Ocean Beach)—West from 3700 Del Mar av, 3 south of Chatsworth blvd
Del Mar av
Pescadero av
Chatsworth blvd
Catalina blvd
Santa Barbara
Guitoz
4519 Boyd Mabel E
4568 Brenner C O
Froud
4619 Vacant
4631 Bowron Jno
4651 Douglass Marcellus
4655 Vacant
4676 Leonard W B
Ebers
4711 Vacant
4722 Watkins Kate
4837 Healy I C Mrs
DeFoe
4844 Richie P A

BERNICE DRIVE (Ocean Beach)—West from 2 blks north of 2050 Chatsworth blvd
3804 Cook S G
3815 Brown T K

BERTING (East San Diego)—North from 5400 El Cajon av

BERVY (North San Diego)—Northeast from 4500 Empire, 1 south of Gardena av
2520 Owen C H

BERWICK AV (Roseville)—East from 3750 Del Mar av
Del Mar av
Byron
Dickens
Goethe
Ingelow

BERYL (Pacific Beach)—East from 4900 Ocean blvd
Ocean blvd
Allison
856 Vacant
Bayard
Cass
Dawes
Gresham
Haines
1521 McMinnville Robt
1507 Vacant
Ingraham
Jewell
Kendall
Lamont
1904 Rozzelle Annie Mrs
1921 Davies R M
Noyes
Olney
Pendleton
Quincy
Randall

BESSEMER (La Playa)—West From 1000 Rosecrans

BETA—East from 1850 Thor, 5 blks south of National av
Thor
3649 McCafferty Walter
3653 Aiman H F
3663 Corder E L
3671 Carp L L
3676 Kober Wm
3680 Ross C M
3696 Bruner Victor
37th
3737 Hughes J S
3751 Dixon G A
Marrs C C
3772 Kent R J
3788 Beyer R A
38th
3805 Johnson S A
Whiteford Clara Mrs
3812 Copeland Isaac
3817 Springer L M
3836 Leconte Felix
3845 Clarke W F
3852 Richter Chas
3855 Carmody W J
3856 Vacant
3879 Howard A C
3892 Wood L S
39th

BEULAH AV (La Jolla)—North from 400 Colima

BEVERLY (Encanto)—North from 5500 Radio dr
Radio dr
Geneva av
Lenox dr

BIONA DRIVE (Kensington Park)—North from east end of Norfolk ter
4612 Smith F M
4620 Maerien Chas
4627 Vacant
4636 Anderson G L
4640 Manning M H
4649 Dodge L H
4650 Fibiger Alb jr
4653 Vacant
4656 Pfeiffer C H
4663 Vacant
4669 Vacant
4669½ Vacant
4670 Gilmer J P
4679 Goss O R
4684 Fisk H J
4685 Vacant
4689 Daley G R
4690 Ely Clara Mrs
Rochester rd
4820 Ault J W
4849 Vacant
4853 Vacant

BIRCH—Southeast from Pluto, ½ blk south of 3400 Boston av
3236 Romero Juan
3247 Guerrero Julio
3252 Oakland L M
3257 Luque Emetario
3260 Powers Jno
3293 Ortman O W
3311 Guerrero Max
3314 Rodee Edw
3321 Arguello Albt
3327 Stilwell K J
3338 McCrary Boss
3339 Nelson T R
3346 Gall J A
3347 Metzko Paul
3356 Bresler J B
3373 Vacant
3383 Anderson Jas
Confar Susie Mrs
Hyler Morris
Pluto
Rigel
3514 Daken Geo
3521 Sahrdeck Chas
3527 Karamees Peter
3545 Johnson T L
3546 Wilber A E
3549 Fanning Jos
3582 Bambush Jos
3587 Aguirre Salvador
3592 Molina Julian
Siva
3605 Emge Jos
3618 McCaffrey Malem Mrs
3621 Vacant
3625 Freeman H V
3627 Shipley Roy
3630 Arnason Peter
3638 Bjarnason Sigurd
3676 Randall J W
3677 Vacant
Thor
3701 Roczey L B
3722 Anderson A G
3742 Smith J W
Una
3754 Petetit R A
Trudell J G
3768 Wise W J
3773 Hill G G
3776 Trelikes Tony
3783 Holcomb Carl
Vesta
3809 Springer Lottie Mrs
3815 Otto Martha Mrs
3818 Vacant
3830 Anderson G E
3832 Eoff G W
3833 Mattoon W R
3836 Baldwin B W Mrs gro
3839 Mattoon Levette
3853 McClure G A
3888 Capwell H S
3894 Baldwin B W Mrs
Baldwin F L
Woden
3932 Swanson J O
3937 Clough R G
Osborn
3975 Munroe J N
Earl
40th

SANBORN FIRE INSURANCE MAP REPORT

400 East Belt St
400 East Belt St
San Diego, CA 92113

Inquiry Number: 4069684.3
September 18, 2014

Certified Sanborn® Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

9/18/14

Site Name:
400 East Belt St
400 East Belt St
San Diego, CA 92113

Client Name:
Ninyo & Moore
5710 Ruffin Rd
San Diego, CA 92123

EDR Inquiry # 4069684.3

Contact: Adrian Olivares

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Certified Sanborn Results:

Site Name: 400 East Belt St
Address: 400 East Belt St
City, State, Zip: San Diego, CA 92113
Cross Street:
P.O. # NA
Project: 107764001
Certification # CD3D-4B88-81AA

Maps Provided:

1971
1970
1965
1962
1960
1959
1956
1950
1921

Sanborn® Library search results
Certification # CD3D-4B88-81AA

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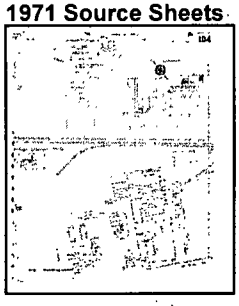
Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1971 Source Sheets



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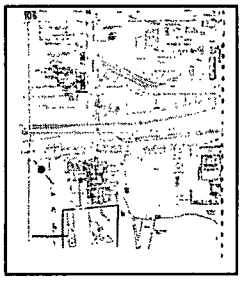

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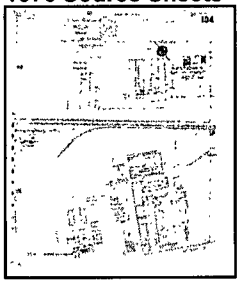
1970 Source Sheets



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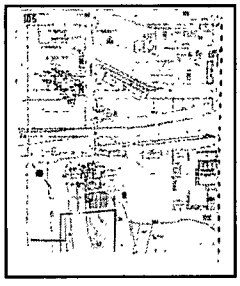

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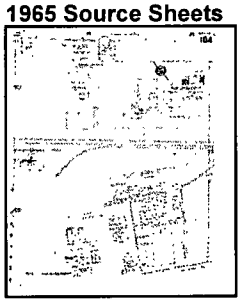
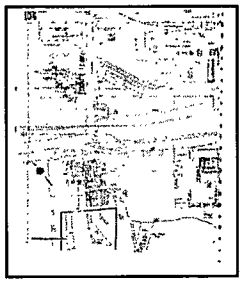
1965 Source Sheets

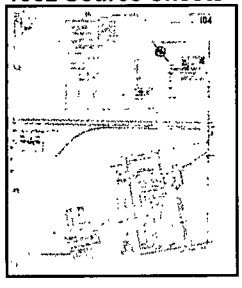


Volume 1, Sheet 104

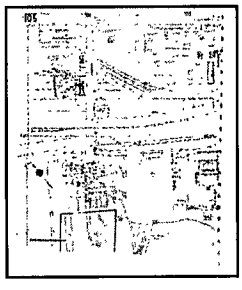


Volume 1, Sheet 105

1962 Source Sheets

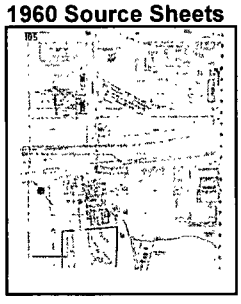


Volume 1, Sheet 104

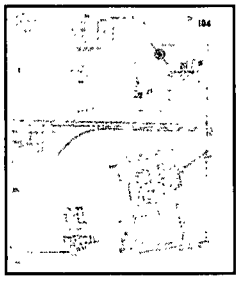


Volume 1, Sheet 105

1960 Source Sheets

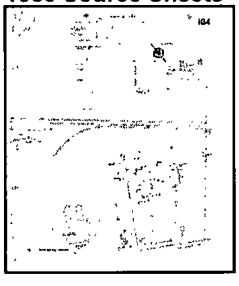


Volume 1, Sheet 105

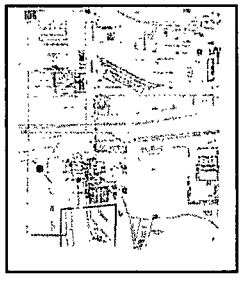


Volume 1, Sheet 104

1959 Source Sheets

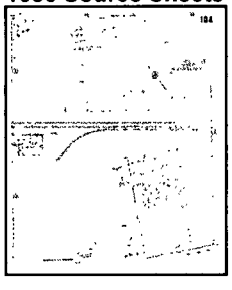


Volume 1, Sheet 104

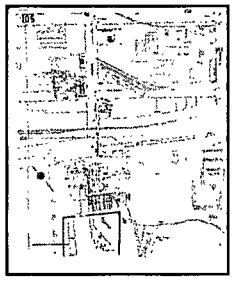


Volume 1, Sheet 105

1956 Source Sheets

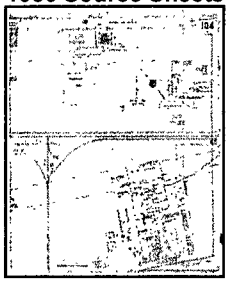


Volume 1, Sheet 104

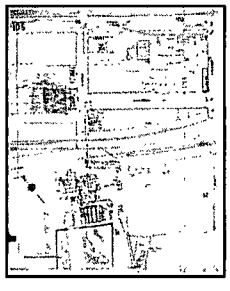


Volume 1, Sheet 105

1950 Source Sheets

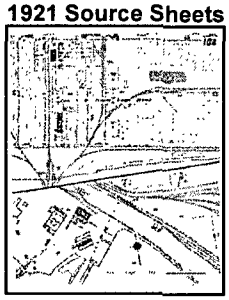


Volume 1, Sheet 104

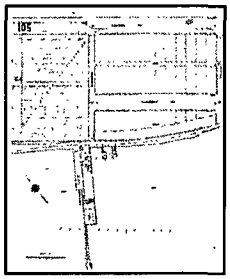


Volume 1, Sheet 105

1921 Source Sheets

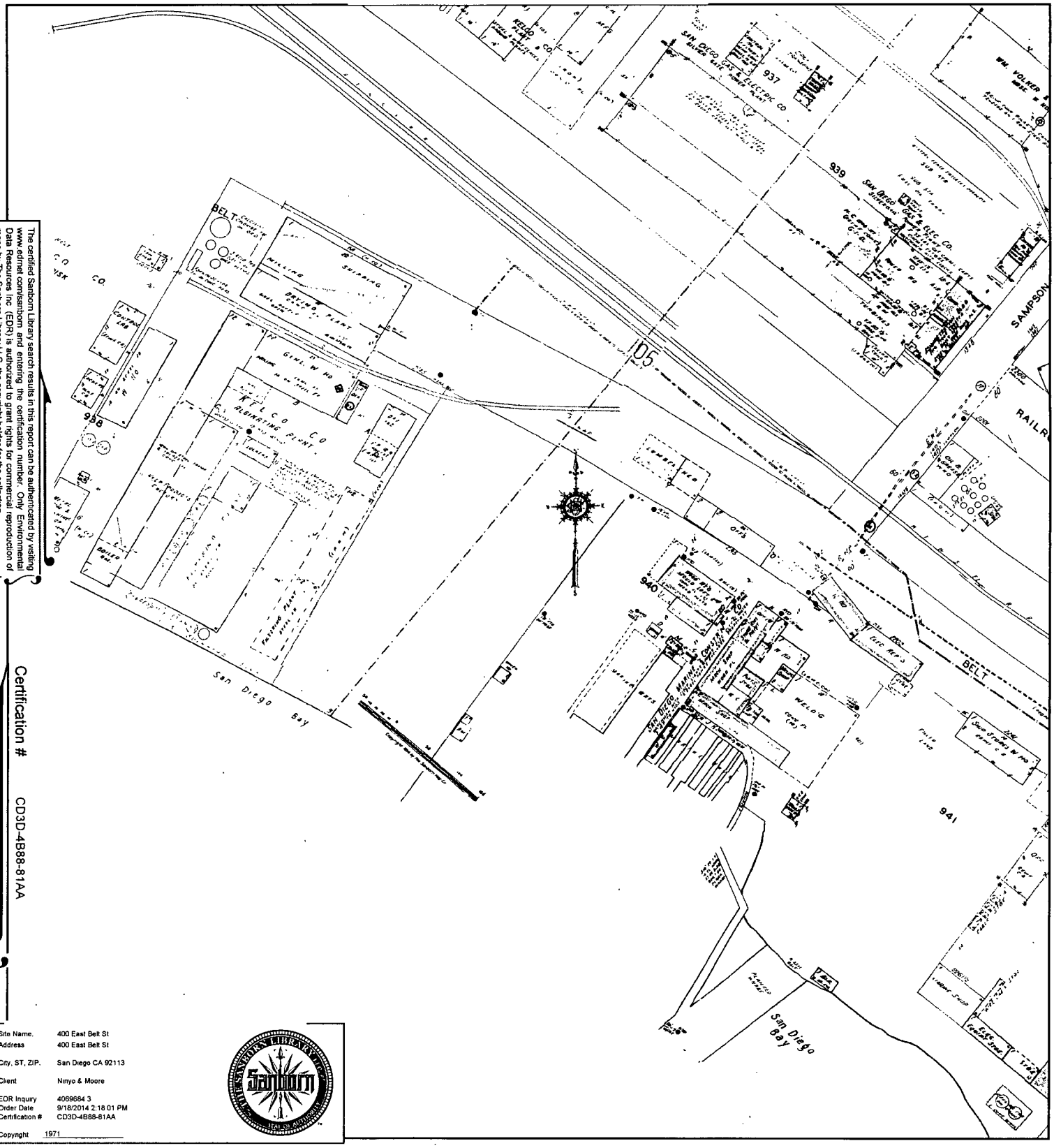


Volume 1, Sheet 104



Volume 1, Sheet 105

1971 Certified Sanborn Map



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Certification # CD3D-4B88-81AA

Site Name.	400 East Belt St
Address	400 East Belt St
City, ST, ZIP.	San Diego CA 92113
Client	Ninyo & Moore
EDR Inquiry	4069684 3
Order Date	9/18/2014 2:18 01 PM
Certification #	CD3D-4B88-81AA
Copyright	1971

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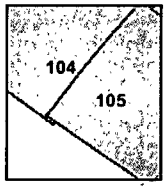

Volume 1, Sheet 104
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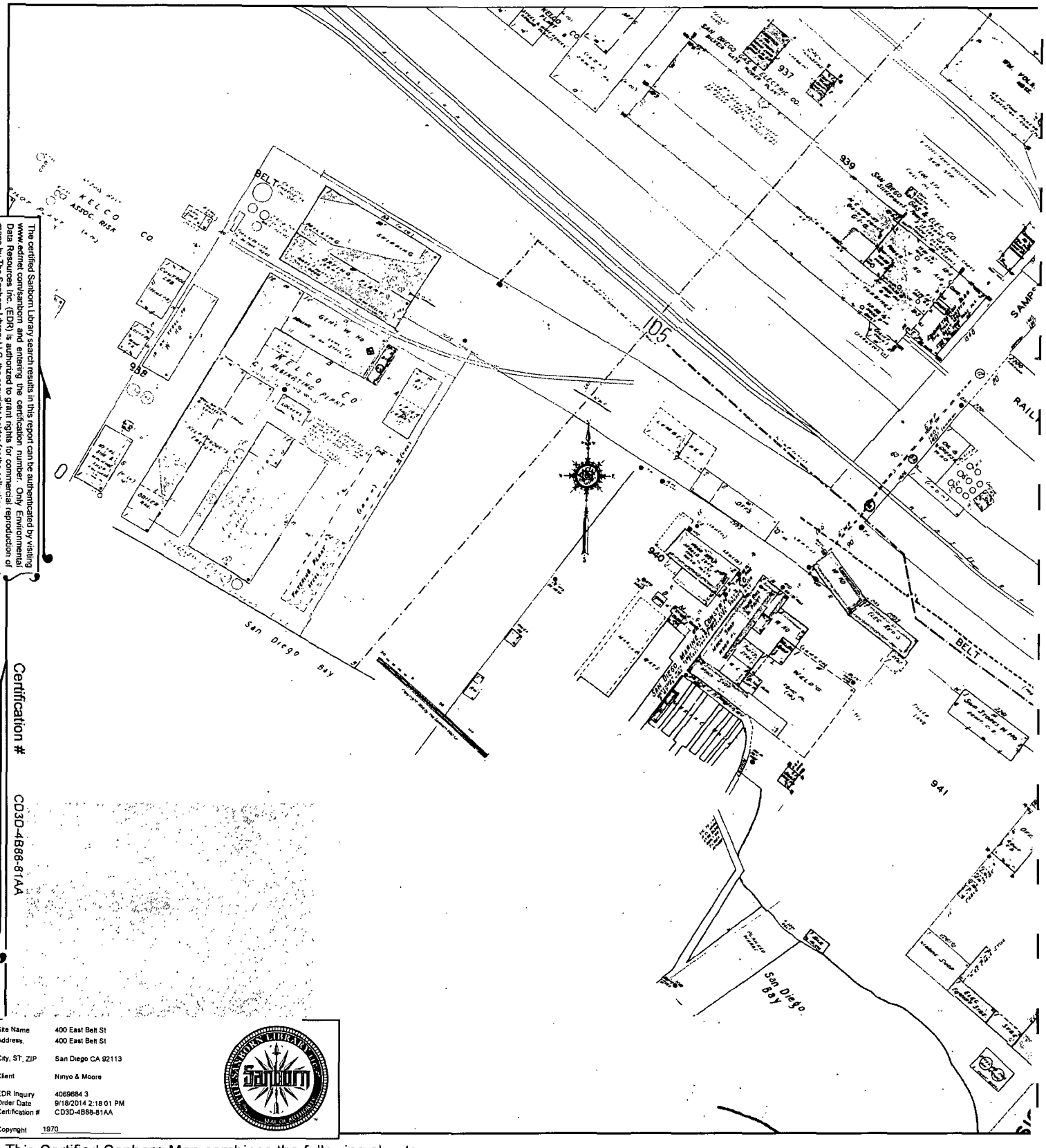
0 Feet 150 300 600

N

63732 PAGE 2340

1970 Certified Sanborn Map



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EDR Inquiry	4069684.3
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Certification #	CD3D-4B88-81AA
Copyright	1970

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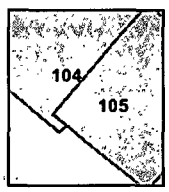

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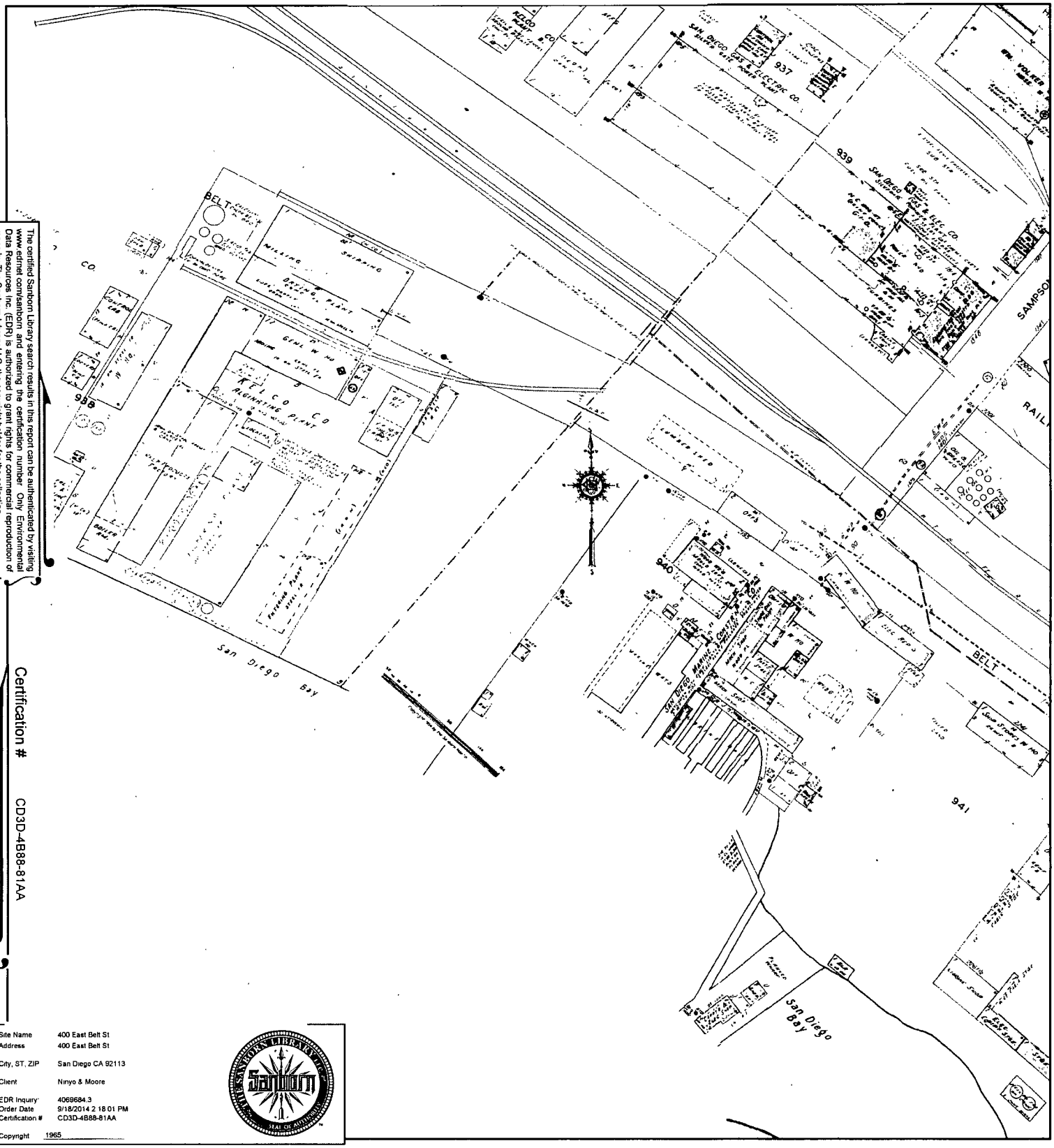
0 Feet 150 300 600

N

63732 PAGE 2341

1965 Certified Sanborn Map



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EDR Inquiry	4069684.3
Order Date	9/18/2014 2:18:01 PM
Certification #	CD3D-4B88-81AA
Copyright	1965

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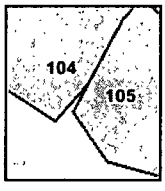

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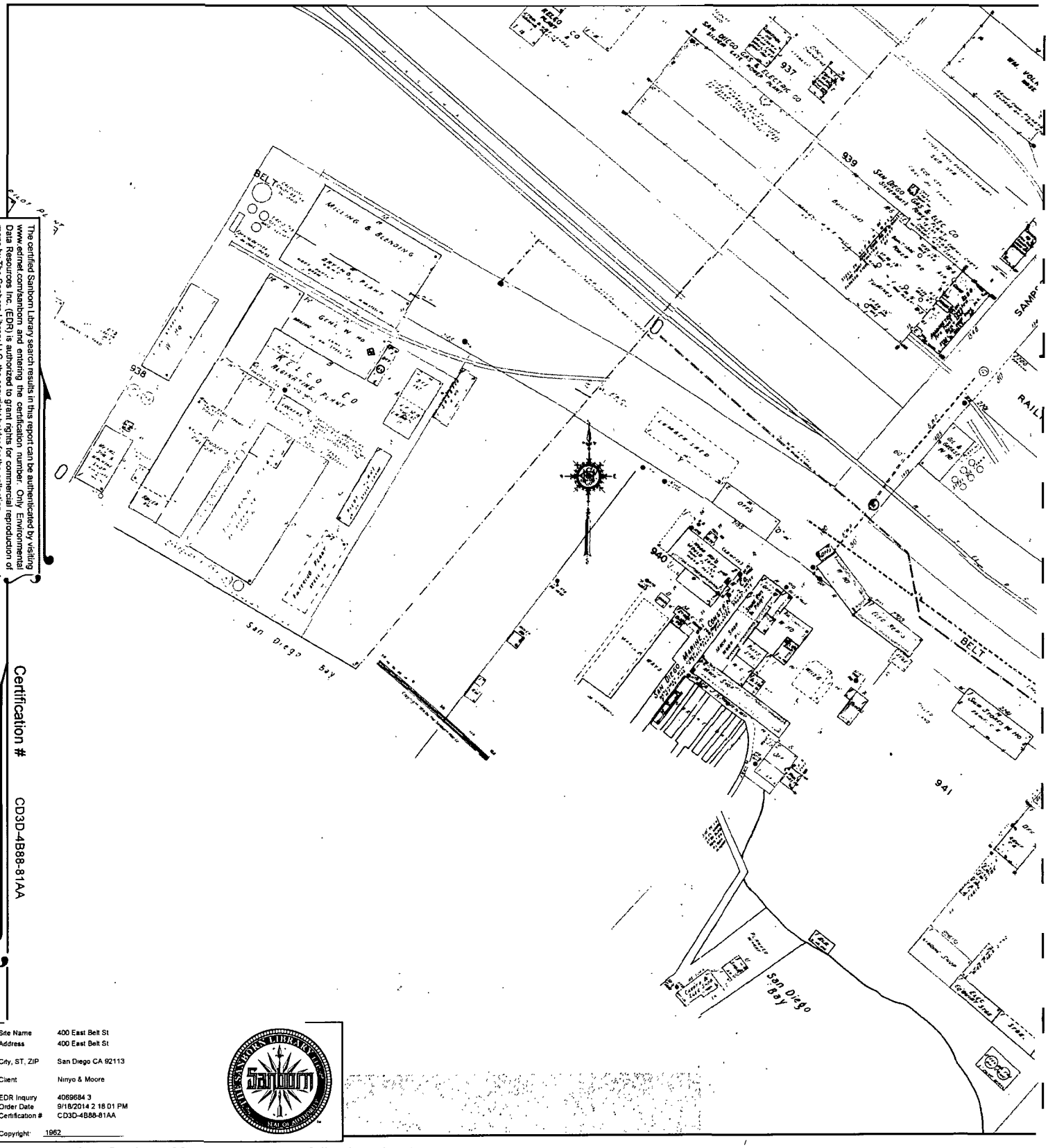
0 Feet 150 300 600

N

63732 PAGE 2342

1962 Certified Sanborn Map



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EDR Inquiry	4069684.3
Order Date	9/18/2014 2:18:01 PM
Certification #	CD3D-4B88-81AA
Copyright	1962

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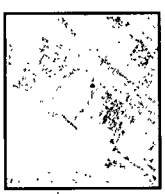

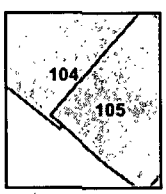

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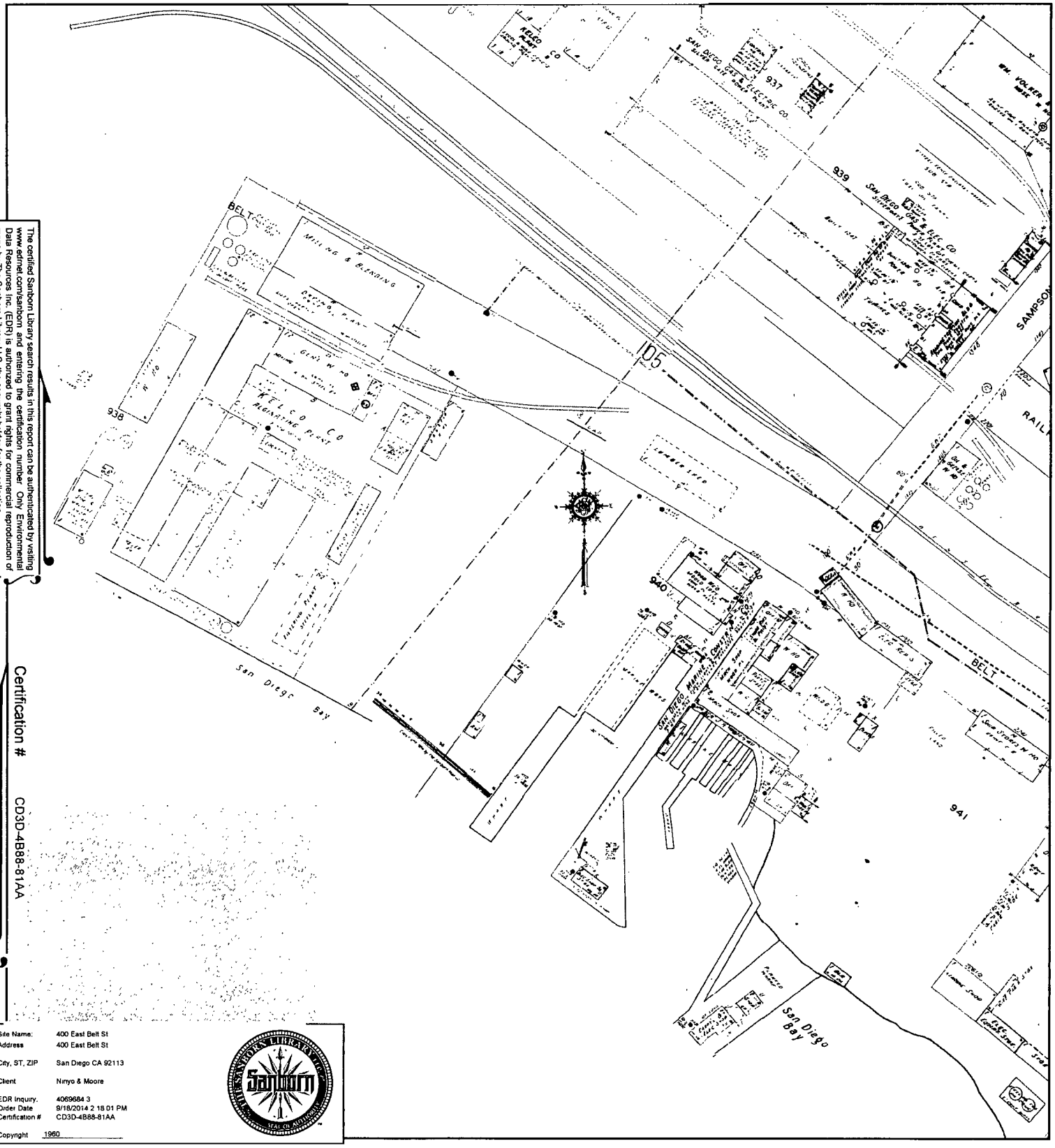
0 Feet 150 300 600

N

1960 Certified Sanborn Map



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EDR Inquiry.	4069684 3
Order Date	9/18/2014 2 18 01 PM
Certification #	CD3D-4B88-81AA
Copyright	1960

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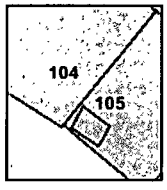

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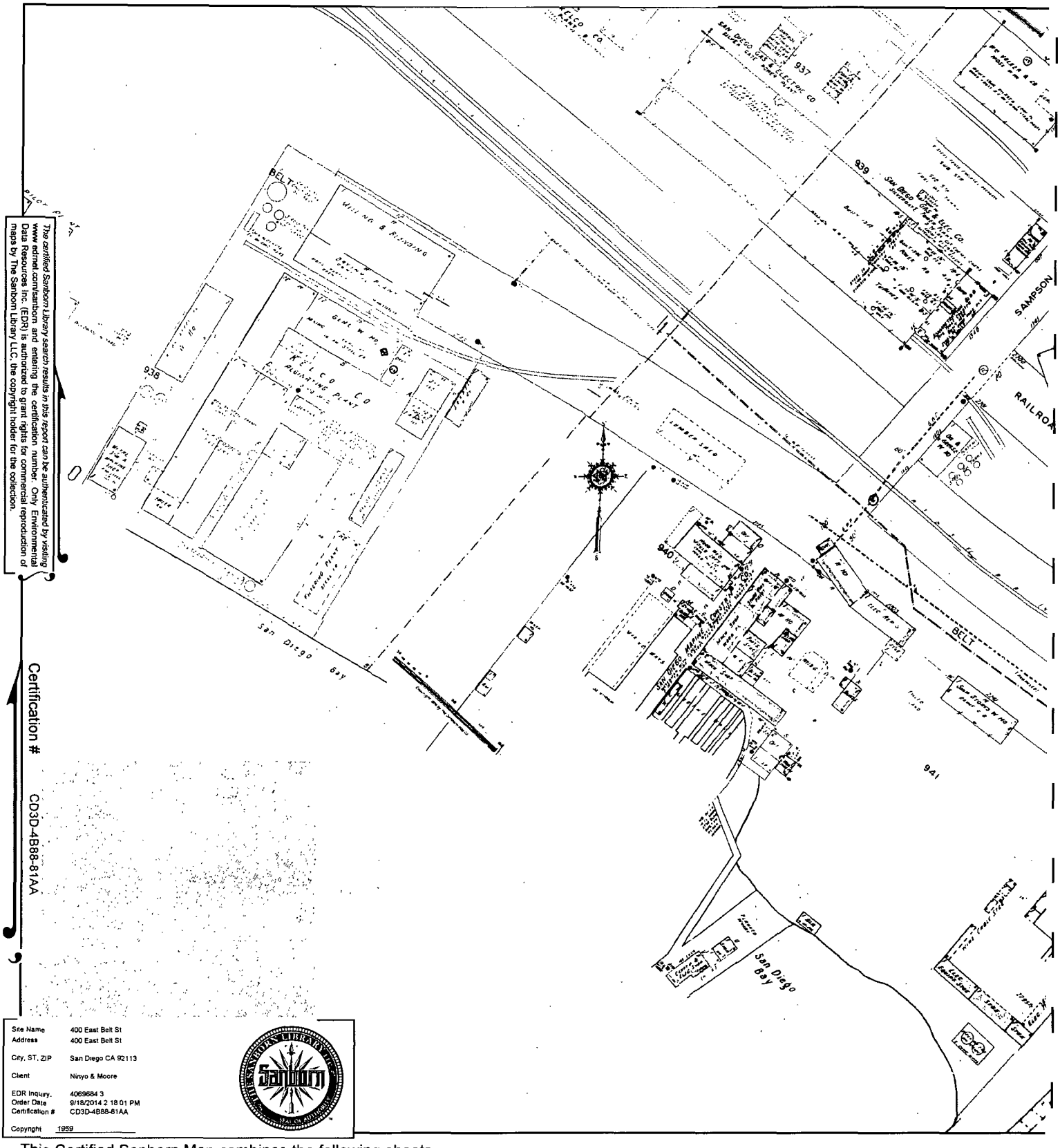
0 Feet 150 300 600

N

63732 PAGE 2344

1959 Certified Sanborn Map



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EDR Inquiry.	4069684 3
Order Date	9/18/2014 2 18 01 PM
Certification #	CD3D-4B88-81AA
Copyright	1959

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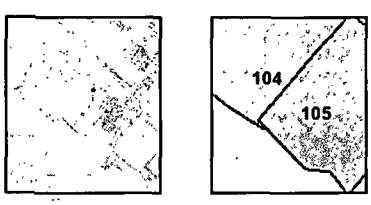

Volume 1, Sheet 104
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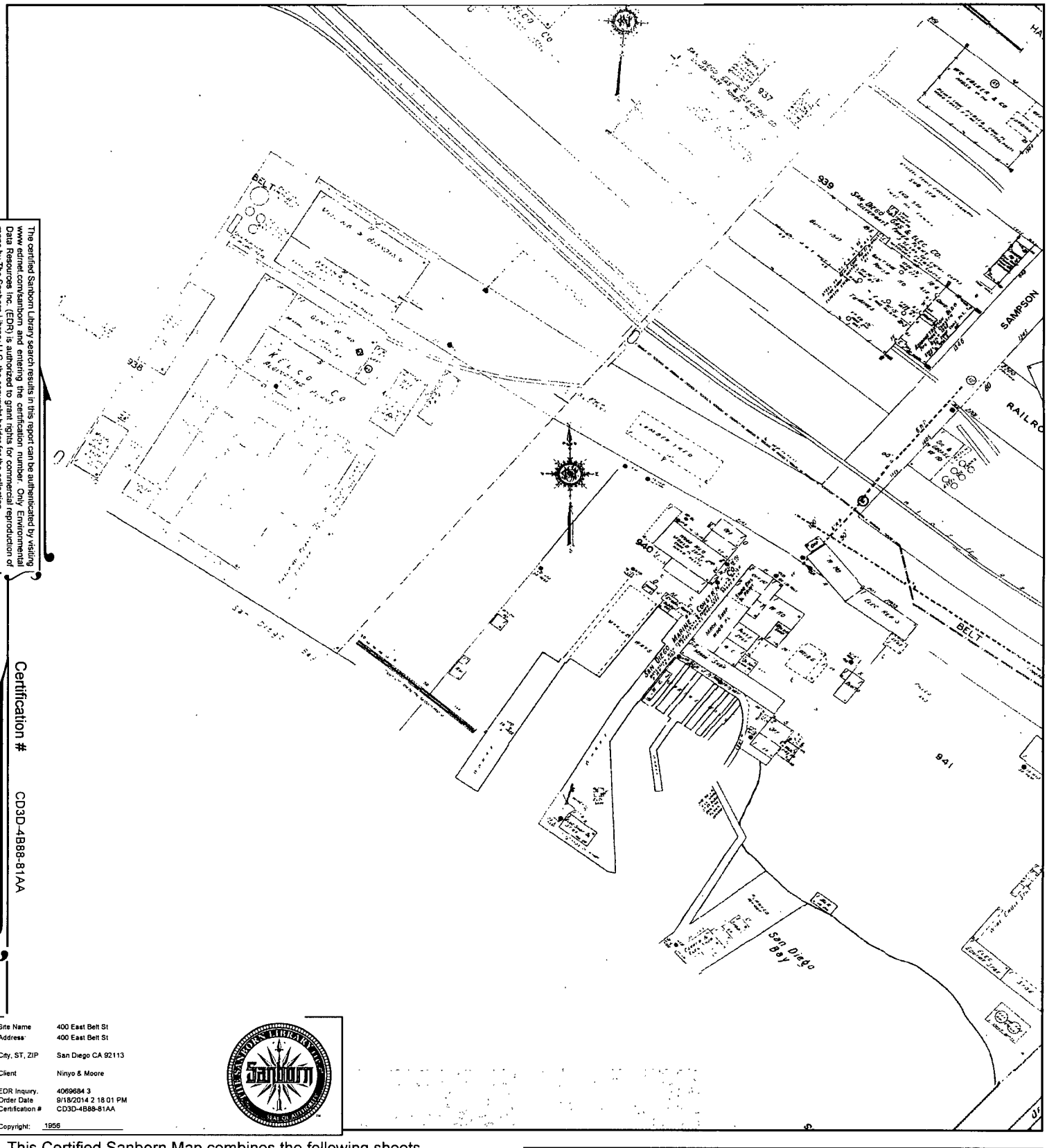
N

1956 Certified Sanborn Map



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EDR Inquiry	4069684.3
Order Date	9/18/2014 2:18:01 PM
Certification #	CD3D-4B88-81AA
Copyright:	1956

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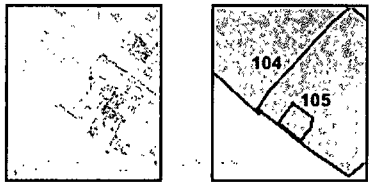


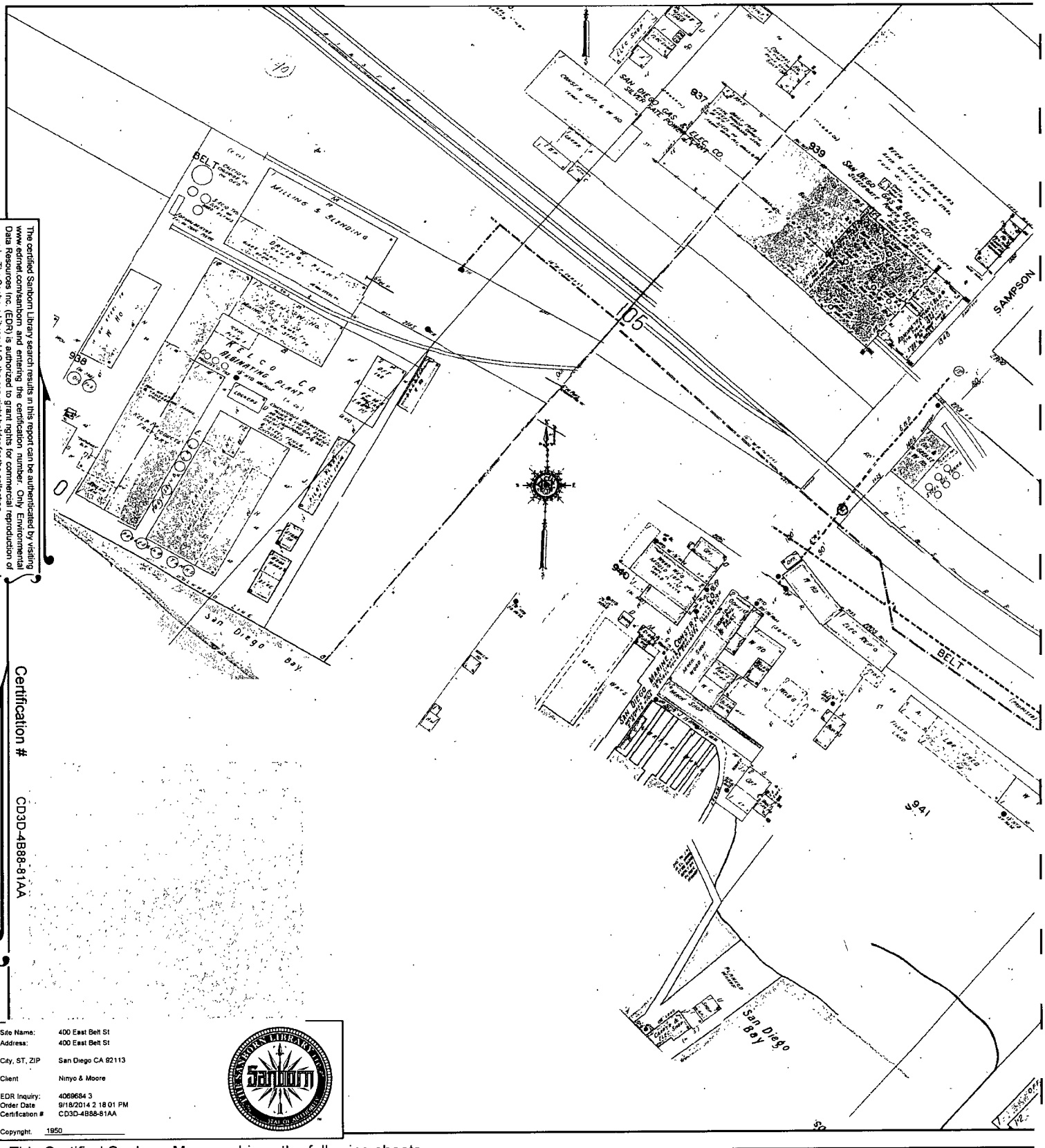
Volume 1, Sheet 104
Volume 1, Sheet 105

0 Feet 150 300 600

N

63732 PAGE 2346

1950 Certified Sanborn Map



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EDR Inquiry:	4069684.3
Order Date	9/18/2014 2:18:01 PM
Certification #	CD3D-4B88-81AA
Copyright	1950

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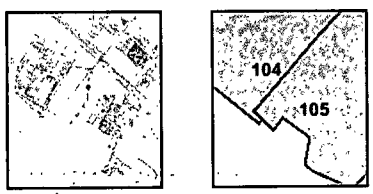

Volume 1, Sheet 104
Volume 1, Sheet 105

0 Feet 150 300 600

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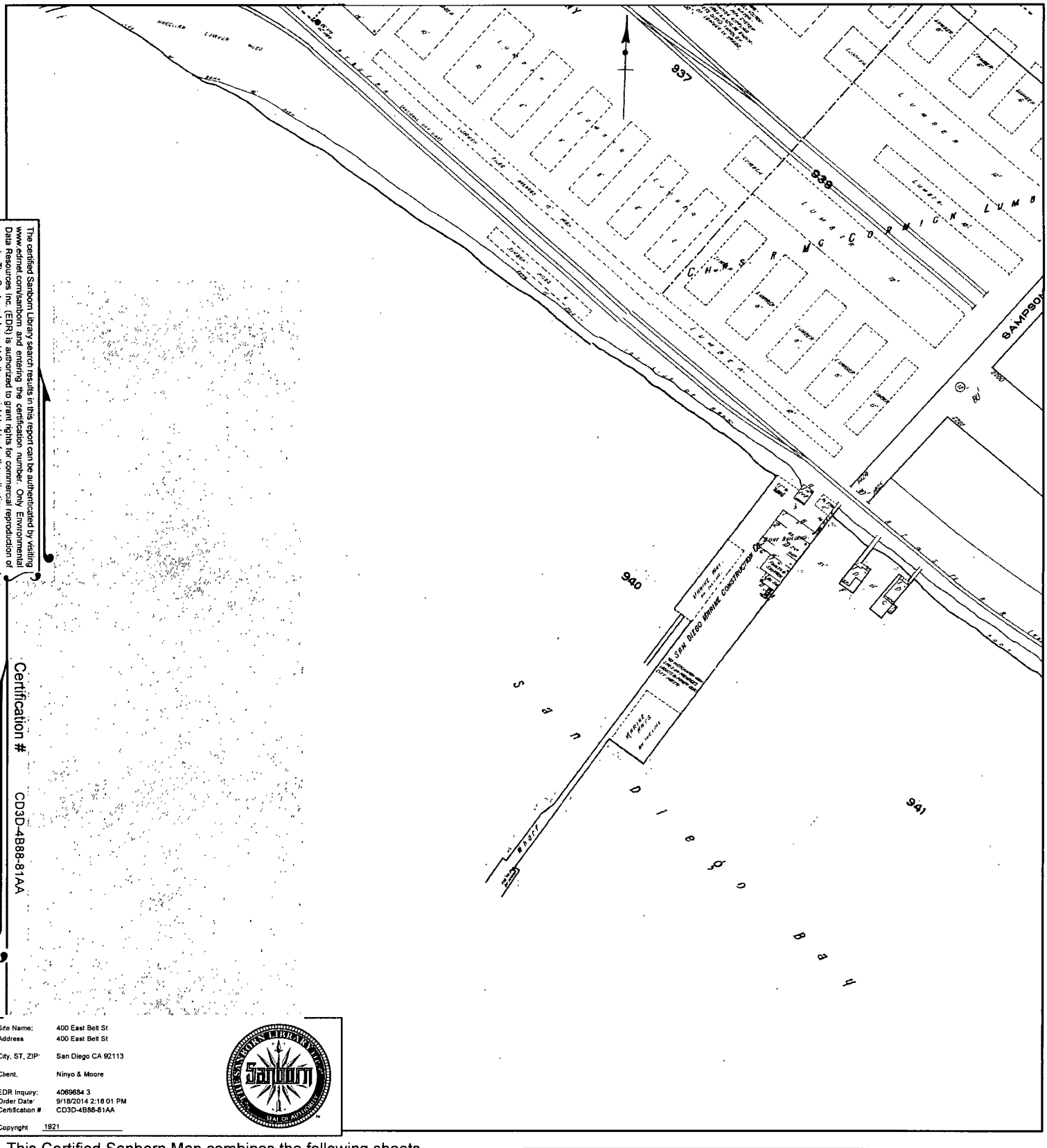
1921 Certified Sanborn Map



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Client.	Ninyo & Moore
EDR Inquiry:	4069684 3
Order Date	9/18/2014 2:18 01 PM
Certification #	CD3D-4B88-81AA
Copyright	1921

This Certified Sanborn Map combines the following sheets.
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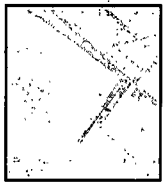

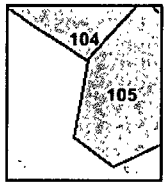

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Volume 1, Sheet 105

0 Feet 150 300 600

N

63732 PAGE 2348

HISTORICAL AERIAL PHOTOGRAPHS

400 East Belt St
400 East Belt St
San Diego, CA 92113

Inquiry Number: 4069684.9
September 19, 2014

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography September 19, 2014

Target Property:

400 East Belt St

San Diego, CA 92113

Year	*Scale*	*Details*	*Source*
1953	Aerial Photograph. Scale: 1"=500'	Flight Year: 1953	USGS
1963	Aerial Photograph. Scale: 1"=500'	Flight Year: 1963 Best Copy Available from original source	Cartwright
1975	Aerial Photograph. Scale: 1"=500'	Flight Year: 1975	USGS
1983	Aerial Photograph. Scale: 1"=500'	Flight Year: 1983	USGS
1989	Aerial Photograph. Scale: 1"=500'	Flight Year: 1989	USGS
1994	Aerial Photograph. Scale: 1"=500'	/DOQQ - acquisition dates: 1994	USGS/DOQQ
2005	Aerial Photograph. Scale: 1"=500'	Flight Year: 2005	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2010	Aerial Photograph. Scale: 1"=500'	Flight Year: 2010	USDA/NAIP
2012	Aerial Photograph. Scale: 1"=500'	Flight Year: 2012	USDA/NAIP



INQUIRY #: 4069684.9

YEAR: 1953

= 500'

N

EDR



INQUIRY #: 4069684.9

YEAR: 1963

= 500'

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EDR



INQUIRY #: 4069684.9

YEAR: 1975

= 500'

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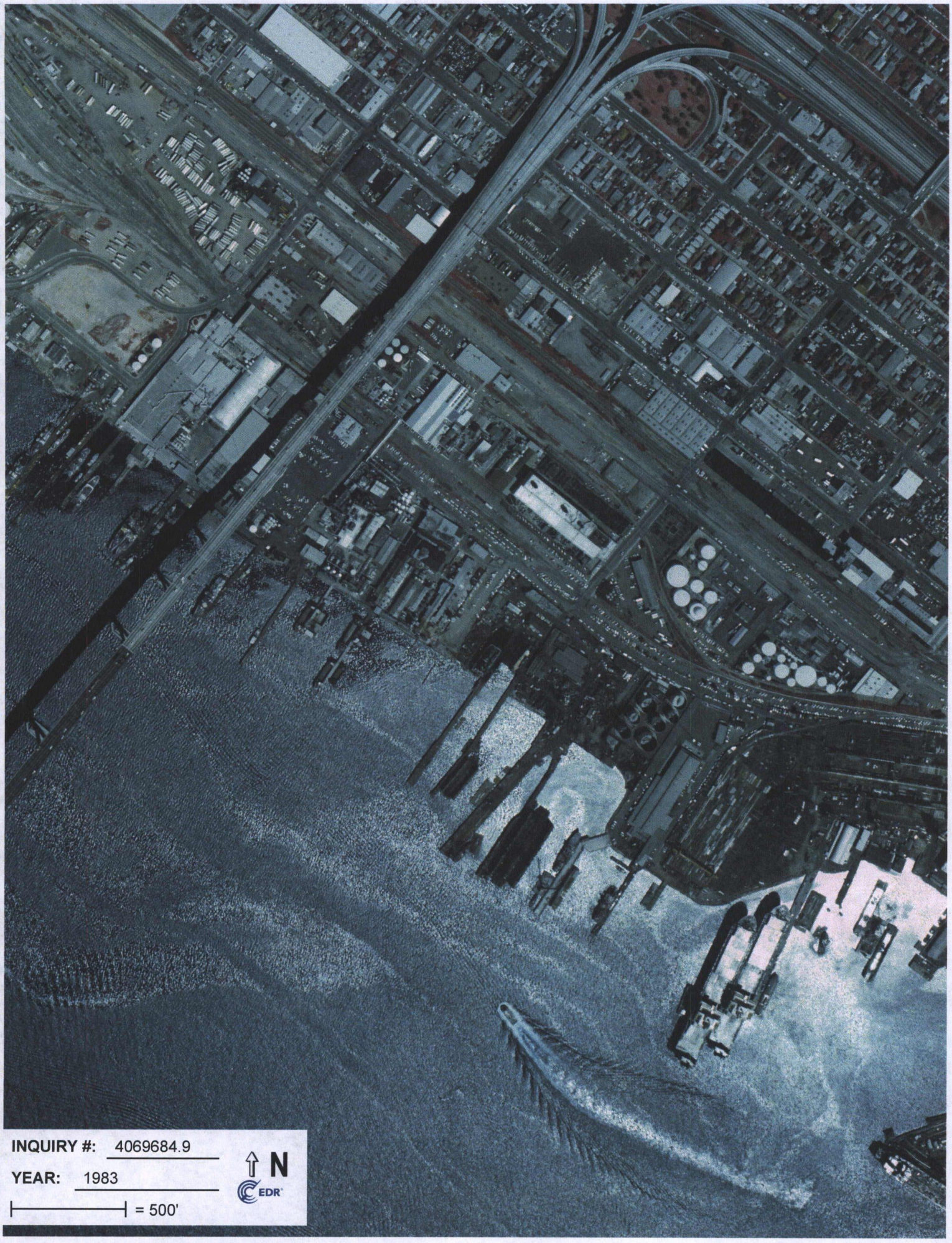
EDR



INQUIRY #: 4069684.9

YEAR: 1983

= 500'

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EDR



INQUIRY #: 4069684.9

YEAR: 1989

= 500'

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EDR


INQUIRY #: 4069684.9
YEAR: 1994
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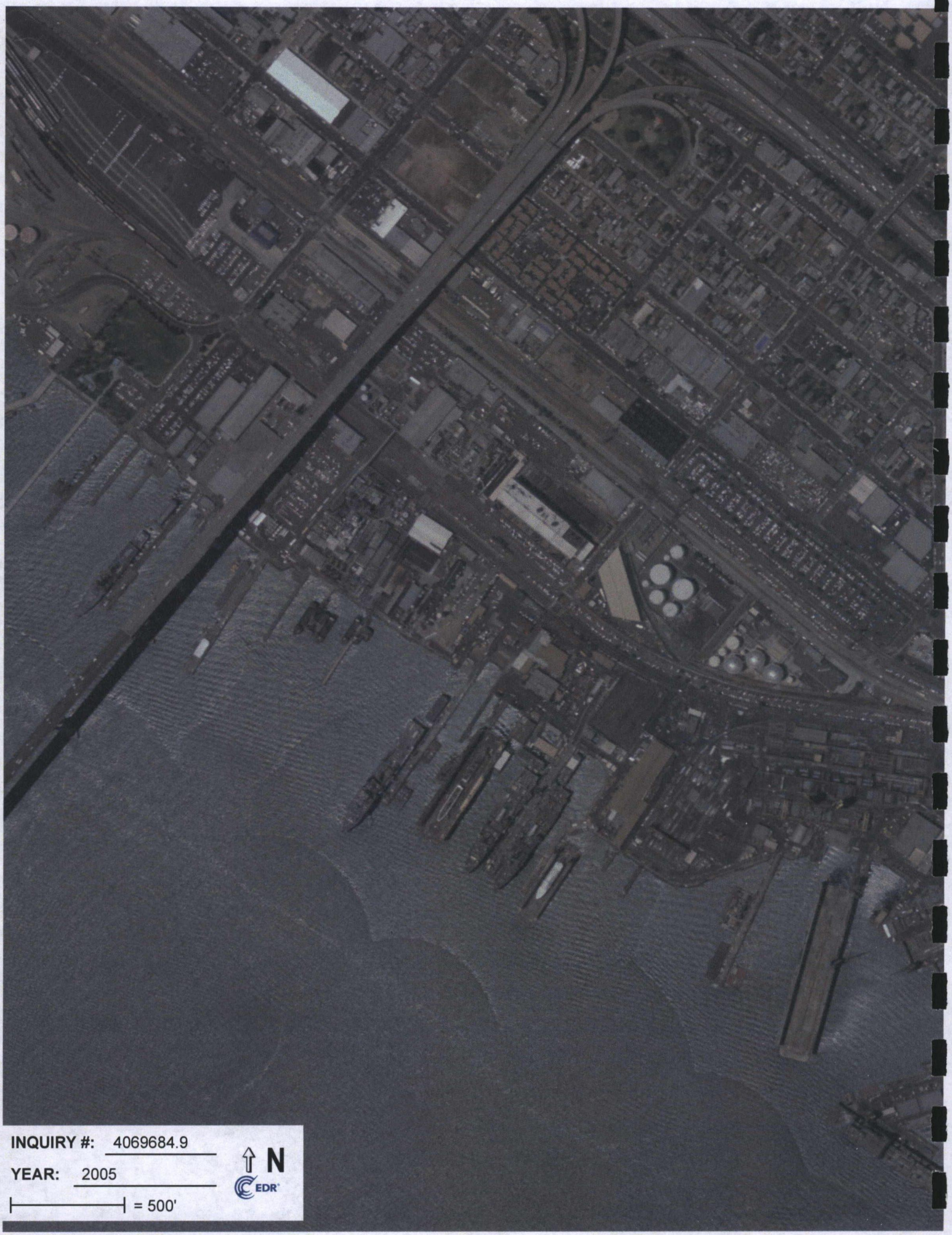
EDR



INQUIRY #: 4069684.9

YEAR: 2005

= 500'

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EDR



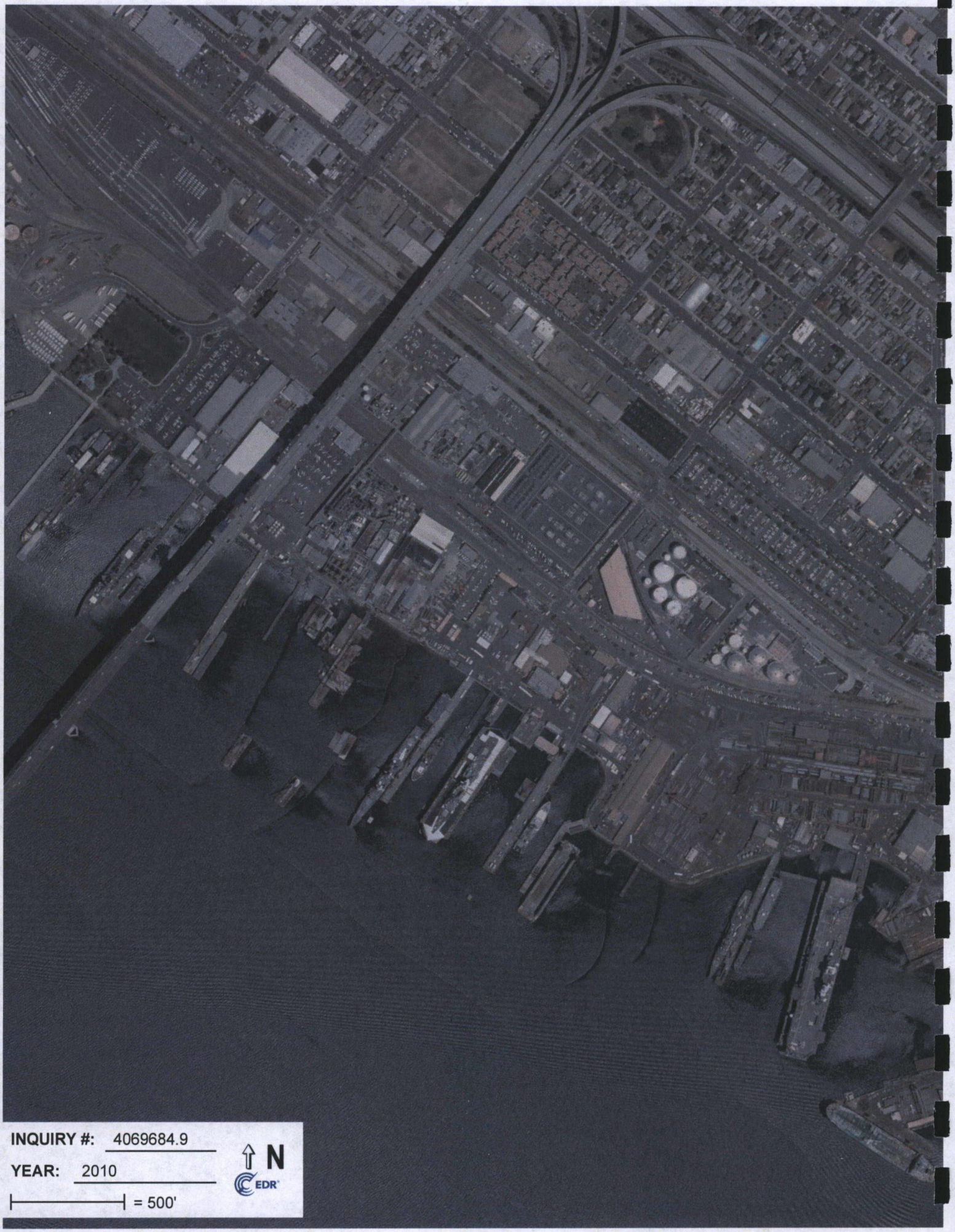
INQUIRY #: 4069684.9

YEAR: 2009

= 500'

N

EDR


INQUIRY #: 4069684.9
YEAR: 2010
= 500'
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INQUIRY #: 4069684.9
YEAR: 2012
= 500'
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EDR

HISTORICAL TOPOGRAPHIC MAPS

63732 2363

400 East Belt St

400 East Belt St

San Diego, CA 92113

Inquiry Number: 4069684.4

September 18, 2014

EDR Historical Topographic Map Report

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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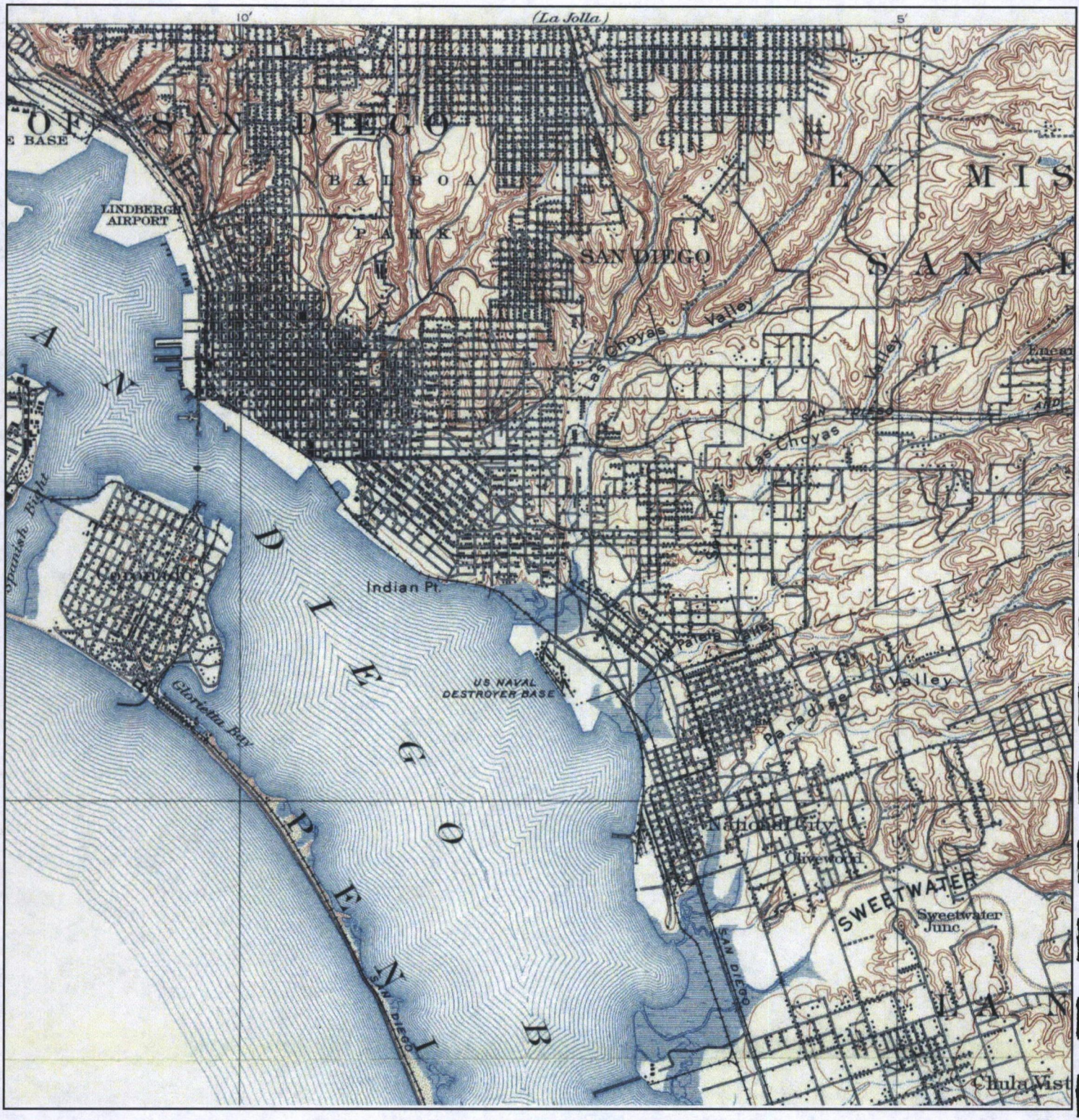
Historical Topographic Map



Unsurveyed Area on the Topographic Map

N	TARGET QUAD NAME: SOUTHERN CA SHEET 2 MAP YEAR: 1904 SERIES: 60 SCALE: 1:250000	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

Historical Topographic Map



Unsurveyed Area on the Topographic Map

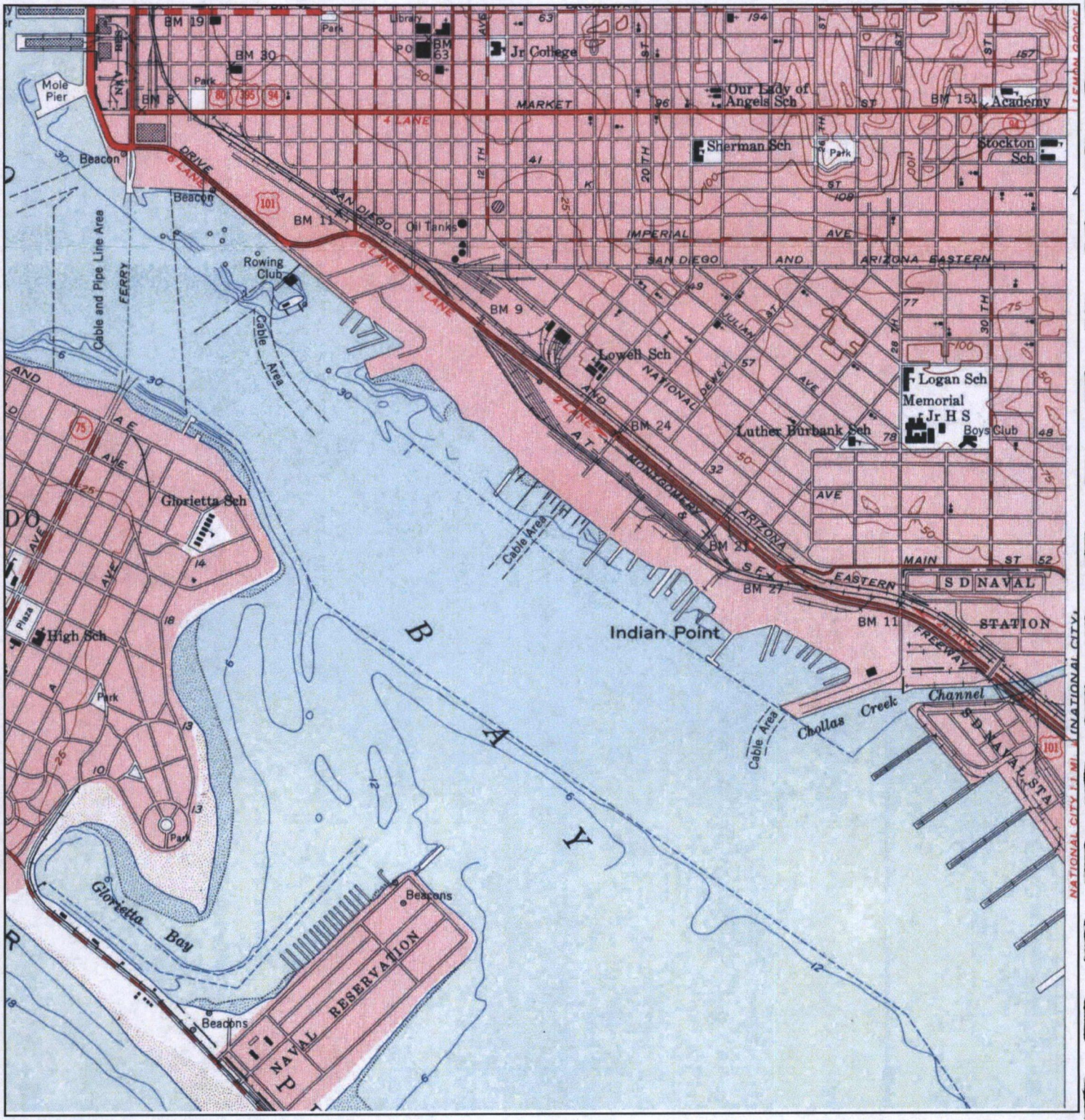
N	TARGET QUAD NAME: SAN DIEGO MAP YEAR: 1930 SERIES: 15 SCALE: 1:62500	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

Historical Topographic Map



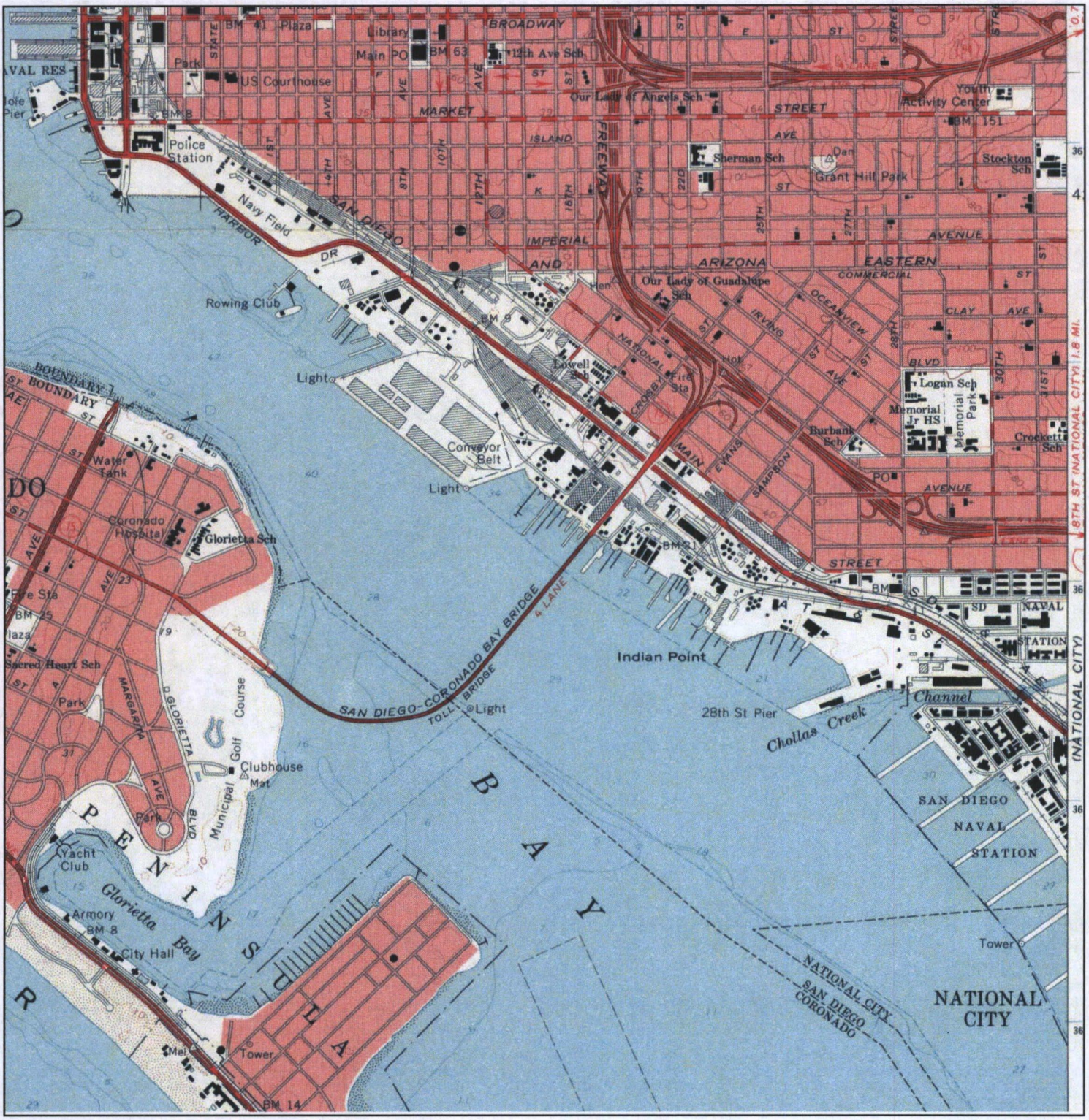
N	TARGET QUAD NAME: POINT LOMA MAP YEAR: 1942 SERIES: 7.5 SCALE: 1:31680	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

Historical Topographic Map



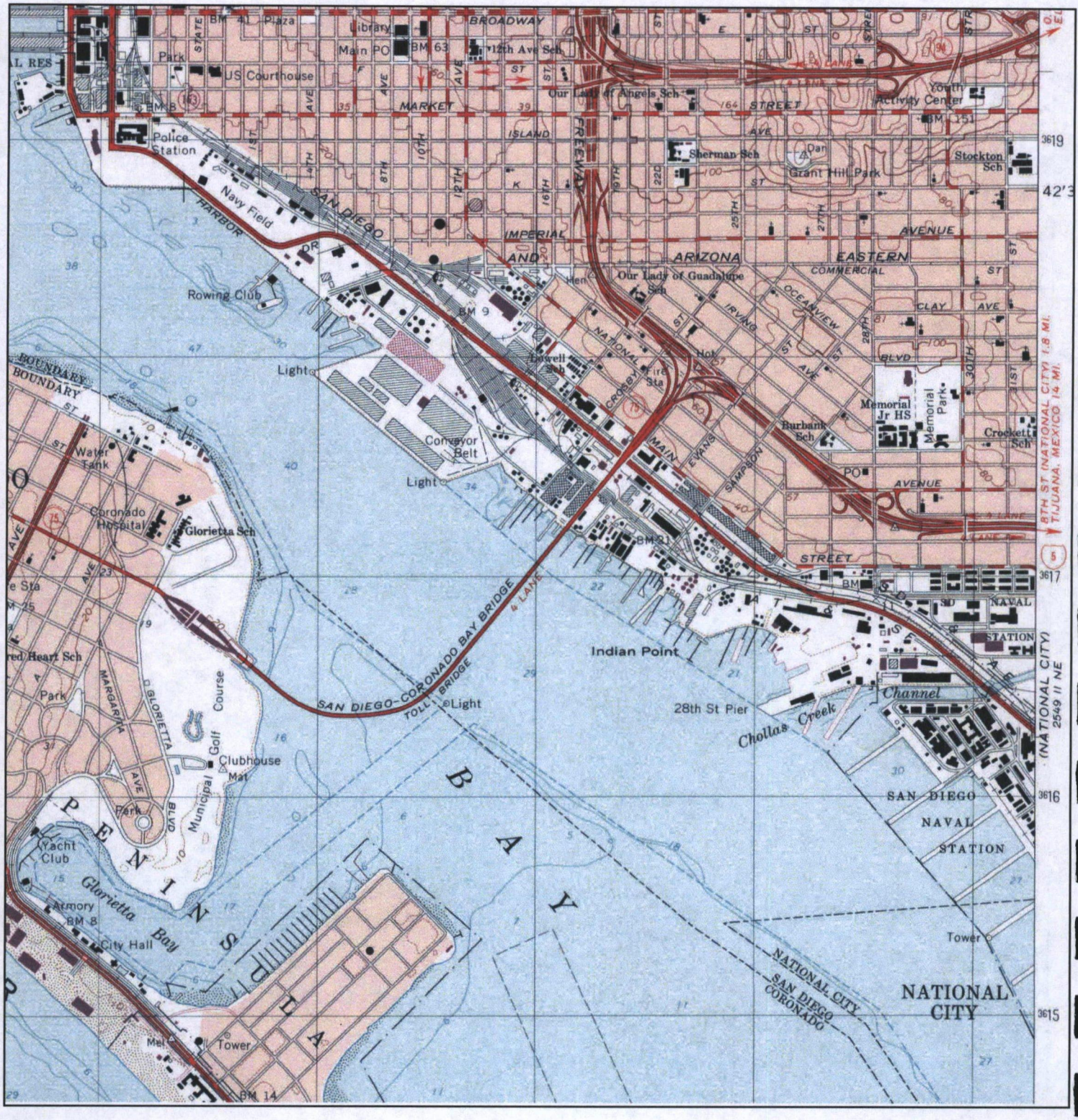
N	TARGET QUAD NAME: POINT LOMA MAP YEAR: 1953 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

Historical Topographic Map



N	TARGET QUAD NAME: POINT LOMA MAP YEAR: 1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

Historical Topographic Map



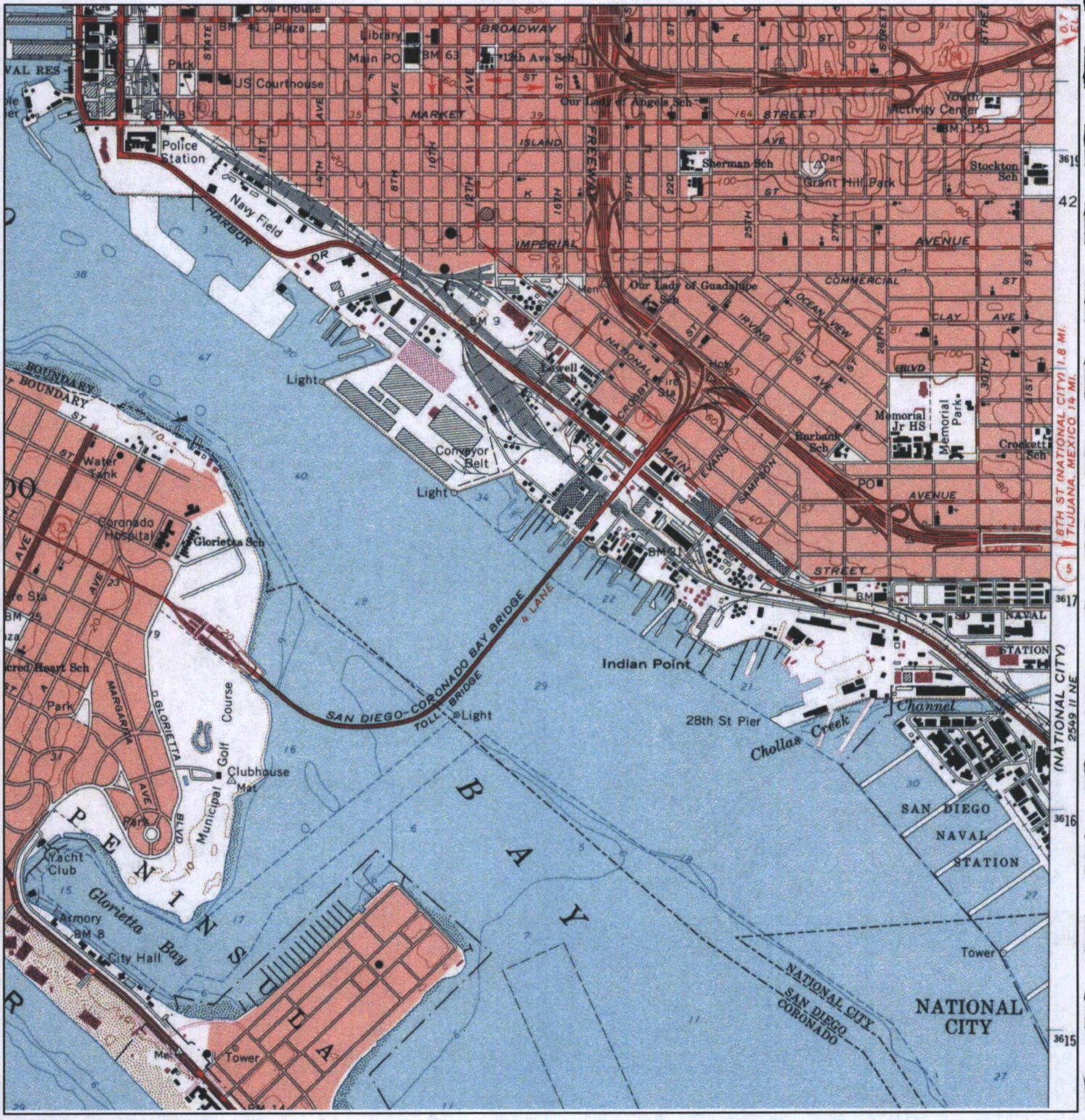
N	TARGET QUAD NAME: POINT LOMA MAP YEAR: 1975 PHOTOREVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

Historical Topographic Map



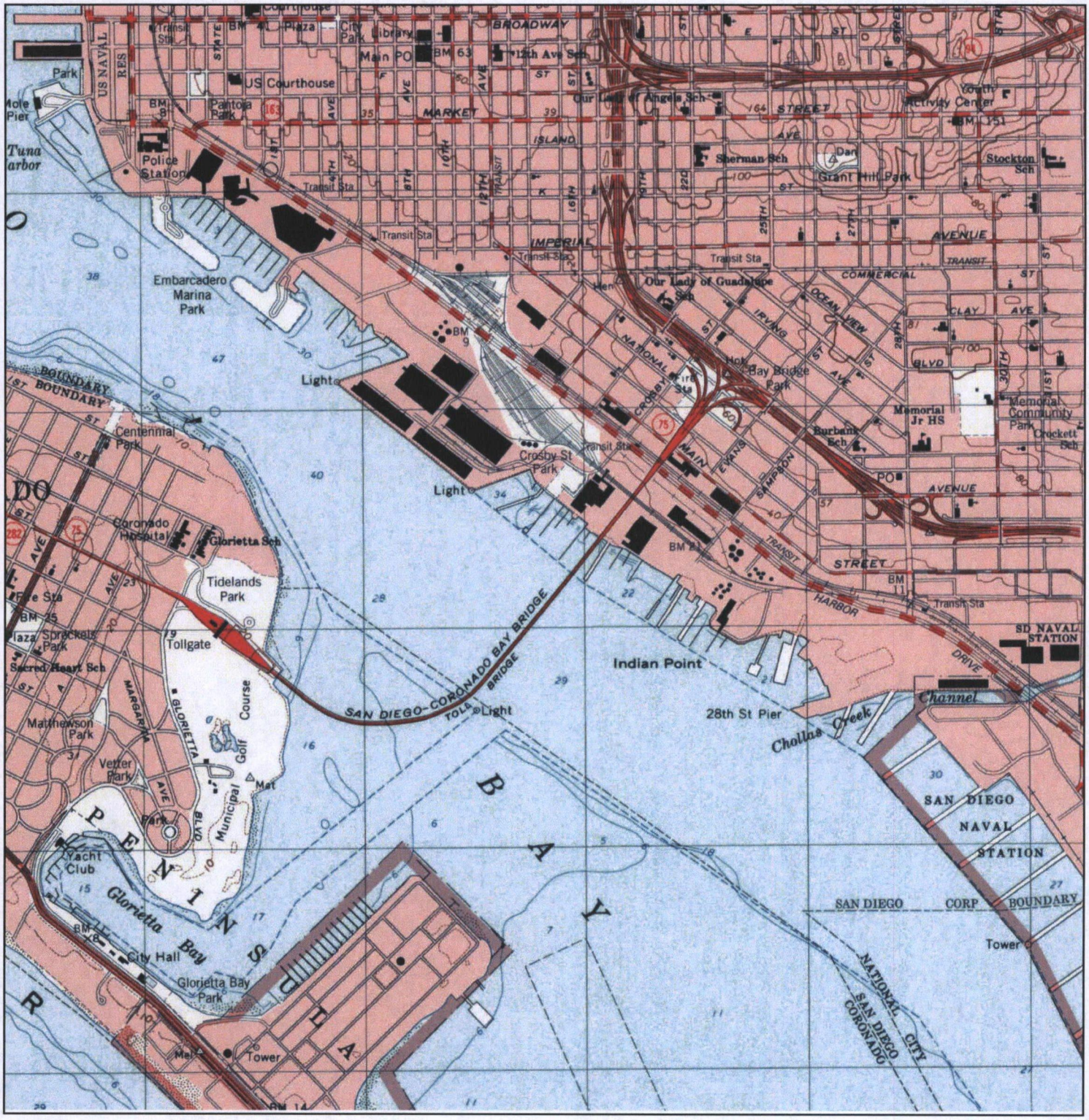
N	TARGET QUAD NAME: SAN DIEGO MAP YEAR: 1991 SERIES: 15 SCALE: 1:50000	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

Historical Topographic Map



N	TARGET QUAD NAME: POINT LOMA MAP YEAR: 1994 REVISED FROM :1967 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

Historical Topographic Map



N	TARGET QUAD NAME: POINT LOMA MAP YEAR: 1996 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 400 East Belt St ADDRESS: 400 East Belt St San Diego, CA 92113 LAT/LONG: 32.6933 / -117.145	CLIENT: Ninyo & Moore CONTACT: Adrian Olivares INQUIRY#: 4069684.4 RESEARCH DATE: 09/18/2014

APPENDIX F

VAPOR ENCROACHMENT SCREENING MATRIX

63732 PAGE 2375

Phase I ESA Vapor Encroachment Conditions (VEC) matrix includes a (1) Search Radius Test, (2) Chemicals of Concern Test (COC), and (3) a Critical Distance Test [1].

(1) Search Radius Test: Are there any known or suspect contaminated properties in the primary area of concern within the corresponding search radii?

☒ Yes ☐ No — If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(2) Chemicals of Concern Test: Are COC likely to be present within the area of concern for those known or suspect contaminated sites identified based on the Search Distance Test?

☒ Yes ☐ No — If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(3) Critical Distance Test: A plume test to determine whether or not COC in the contaminated plume(s) may be within the critical distance.

☒ Yes ☐ No — (3a) Is information related to the contaminated(s) plume available (i.e. isoconcentration maps, site drawings, etc.)?
(3b) If ***No***, then a VEC cannot be ruled out; check ***Yes*** in #4 below indicating it is likely a VEC exists. If ***Yes***, then:

☒ Yes ☐ No — (3c) Is the site less than 100 feet to the nearest edge of a contaminated [non-petroleum hydrocarbon] plume(s)? If ***Yes***, then check ***Yes*** in #4 below indicating it is likely a VEC exists.

☒ Yes ☐ No — (3d) Is the site less than 30 feet to the nearest edge of a dissolved petroleum hydrocarbon plume(s)? If ***Yes***, then check ***Yes*** in #4 below indicating it is likely a VEC exists.

If the distance from the nearest edge of a contaminated plume to the nearest existing or planned structure on the site is less than 100 feet for non-petroleum hydrocarbon COC, or less than 30 feet for dissolved petroleum hydrocarbons, then it is presumed that a VEC *currently* exists beneath the site. If the distance from the nearest edge of the contaminated plume is greater than or equal to 100 feet for non-petroleum hydrocarbons, or 30 feet for dissolved petroleum hydrocarbon chemicals of concern, then it is presumed unlikely that a VEC *currently* exists beneath the site.

(4) Is it likely that a VEC *currently* exists beneath the site?

☒ Yes ☐ No — If ***No***, then the VEC screening is complete and no further investigation is recommended at this time. If ***Yes***, Ninyo & Moore recommends performing additional assessment, such as a Tier 2 VEC assessment according to ASTM E 2600-10.

[1] Based on guidance presented in the ASTM E 2600-10 Standard.

APPENDIX G

QUALIFICATIONS OF THE ENVIRONMENTAL PROFESSIONALS

ADRIAN OLIVARES

SENIOR PROJECT ENVIRONMENTAL SCIENTIST

EDUCATION

B.S., Environmental Studies, 2002,
University of California Santa Barbara

REGISTRATIONS AND CERTIFICATIONS

40-Hour OSHA HAZWOPER Certification
(with annual updates)
CPR / First Aid Certification

EXPERIENCE HIGHLIGHTS

City of San Diego, As-Needed Environmental Services Site Assessment and Mitigation Process Contract
Crossroads College Project Areas EIR
Otay Truck Route
SDG&E Tidelands Area

As a Senior Project Environmental Scientist for Ninyo & Moore, Mr. Olivares manages and conducts Phase I and Phase II Environmental Site Assessments (ESAs), Caltrans Initial Site Assessments (ISAs), California Environmental Quality Act (CEQA) hazardous materials technical studies for Environmental Impact Reports (EIRs), and related due diligence and environmental history investigations. Mr. Olivares performs all phases of environmental investigations, coordinates and observes subsurface drilling activities, conducts investigations of subsurface contamination and logging of exploratory borings, conducts groundwater monitoring utilizing a variety of methods, authors reports, and interfaces with regulatory agencies.

REPRESENTATIVE PROJECT EXPERIENCE

As-Needed Environmental Services Site Assessment and Mitigation Process Contract, San Diego, California: Project Manager for this five-year contract awarded to Ninyo & Moore, which includes conducting environmental site assessments at contaminated, City-owned properties throughout the County of San Diego. Scope of services include: work plan and health and safety plan preparation, field investigations (drill, sample, analytical testing), human health risk assessments, groundwater monitoring and sampling, and report preparation including corrective action plans and site conceptual models. The purpose of the contract is to assist the City of San Diego in obtaining regulatory agency closure of its properties that have been affected by unauthorized releases from underground storage tanks (USTs).

Otay Truck Route, San Diego, California: Project Manager prepared an ISA for the Otay Truck Route Improvement Project in San Diego County, California. The area evaluated for this ISA was generally bounded by Siempre Viva Road to the north, Customhouse Court to the east, the international border to the south, and Britannia Boulevard to the west in the community of Otay Mesa, within the City and County of San Diego, California. The purpose of the project was to provide the construction of additional travel lanes to the existing truck route for truck traffic entering the Otay Mesa Border Crossing Port of Entry (POE) and to provide a travel lane for Border Patrol and emergency vehicles. The ISA involved evaluation of properties within the boundaries of the project area and off-site properties, which have the potential to negatively impact the project area.

13th Street Bridge, Ramona, California: Project Manager prepared an ISA for the 13th Street Bridge Project in Ramona, California. The ISA involved evaluation of 11 parcels within the boundaries of the project area and project area vicinity, which have the potential to negatively impact the project area. Three bridge alternative routes were evaluated within the project area with varying degrees of impacts to the 11 parcels comprising the project area. The purpose of the ISA was to document, to the extent feasible, Recognized Environmental Conditions (RECs), which are defined by the ASTM International (ASTM) Standard Practice E1527-05.

Metropolitan Transit System, 13th Street Light Rail Vehicle Maintenance Facility and Newton Avenue Taxi Inspection Facility San Diego, California: Project Manager for the implementation of the facility's Storm Water Pollution Prevention Plan (SWPPP). The project included wet and dry season monitoring, sampling, an annual inspection for the comprehensive site compliance evaluation for potential pollutant sources, and reporting to comply with the facility's Regional Water Quality Control Board industrial storm water permit requirements.

REPRESENTATIVE PROJECT EXPERIENCE (continued)

City of San Diego, Southeastern San Diego Community Plan Update, San Diego, California: Project Manager for the preparation of a Hazardous Materials Technical Study (HMTS) for the comprehensive update of the Southeastern San Diego Community Plan. The purpose of the HMTS was to document the presence of properties, which may have been impacted by hazardous materials or wastes, and to document the significance of impacts from the project area with respect to CEQA, and to discuss measures that can be implemented to reduce or mitigate the potential impacts.

Crossroads College Project Areas EIR, San Diego, California: Senior Staff Environmental Scientist for an HMTS for the College Grove Redevelopment Project. This area is one of five "Component Areas" of the merged "Crossroads Redevelopment Area." In completing the HMTS, Ninyo & Moore services included review of maps, reports, and other environmental documents pertaining to the project area; performance of a site reconnaissance of the study area to visually identify possible environmental concerns; review of available regulatory agency databases for the project area and for properties located within a specific radius of the project area; review of available historical aerial photographs for the project area and adjacent properties; and preparation of an HMTS report documenting findings and providing opinions and recommendations regarding possible environmental impacts at the project area.

Centre City Development Corporation (CCDC), 1625 Newton Avenue, San Diego, California: Project Environmental Scientist for the preparation of an ASTM International E1527-05 and All Appropriate Inquires (AAI) compliant Phase I ESA including a site reconnaissance, agency file review, environmental database search, and historical records search for the property located at 1625 Newton Avenue in downtown San Diego, California. Based on the findings and recommendations of the Phase I ESA, Ninyo & Moore recommended and performed a soil vapor survey and human health risk assessment to evaluate potential health risks to building occupants.

Multiple Geothermal Power Plants, Imperial Valley, California: Project Environmental Scientist for preparation of regulatory compliance documents including: California Accidental Release Plan (CalARP); EPA Risk Management Plan (RMP); OSHA Process Safety Plan (PSM); Spill Prevention, Control, and Countermeasure Plan (SPCC); and Hazardous Materials Business Plan (HMBP). Responsibilities included the inspection of facilities, client and regulatory interaction, and coauthoring of reports.

SDG&E Tidelands Area, Subsurface Investigation, San Diego, California: Senior Staff Scientist provided field support for soil, groundwater and sediment investigation at the property. Ninyo & Moore's services included preparation of a soil/groundwater/sediment sampling and analysis plan; preparation of a site-specific health and safety plan; field services including the advancement of Cone Penetration Testing (CPT)/Ultra Violet Optical Screening Tool (UVOST) at 38 locations to depths of 40 to 48 feet below ground surface (bgs) and at 28 locations, used a direct push drill rig to collect soil samples at depths associated with selected UVOST data, set temporary wells at 15 locations, collected groundwater samples, and collected sediment samples from the interior base of the sea water cooling tunnels located beneath the site; compiled and performed a quality control review of the analytical results; and prepared a report summarizing the subsurface investigation.

STEPHAN A. BECK, PG, HG, CEG, EM, REA II

PRINCIPAL ENVIRONMENTAL GEOLOGIST

EDUCATION

M.A., Geology, 1981, California State University, Fresno

B.A., Geology, 1976, University of California at Santa Barbara

REGISTRATIONS AND CERTIFICATIONS

PG 4375 (California)

CEG 1512 (California)

HG 126 (California)

REA I 2181 (California)

REA II 20110 (California)

PG 33080 (Arizona)

EM 1545 (Nevada)

PG 2234 (Wyoming)

OSHA 40-hour Health and Safety Training (with annual updates)

OSHA 8-hour Health and Safety Supervisor Training

County of San Diego Environmental Consultant Certification

Data Quality Objectives/Data Quality Assessment, 1997, Naval Facilities Engineering Service Center

Professional Certificate, Hazardous Materials Management, 1989, University of California at San Diego

Hydrogen Sulfide Safety, 1987, ESSE International, Inc.

EXPERIENCE HIGHLIGHTS

Caltrans, District 11 Contract

San Diego Unified Port District, Environmental Contract

County of San Diego Burnsite Contract

San Diego County Regional Airport Authority On-Call Contract

PROFESSIONAL AFFILIATIONS

International Society of Environmental Forensics

National Groundwater Association

San Diego Association of Geologists

San Diego Environmental Professionals

Mr. Beck's project experience includes soil, soil vapor, sediment, sludge, surface water, groundwater and soil vapor surface and subsurface site assessments, hazardous building materials, human health and ecological risk assessments, remedial design, and remedial/removal actions involving volatile and semi-volatile organic compounds, polychlorinated biphenyls, metals, refined petroleum products, and pesticides, underground storage tanks, radiological surveys, and various phases of hydrologic/groundwater supply projects. Other experience includes site assessment investigations for real estate transfers, including Navy property, school sites, power and coal gasification plants, Brownfields, pipeline, transportation and railroad rights-of-way, regulatory compliance involving U.S. Environmental Protection Agency, California Department of Toxic Substances Control, California Fish and Game Department, Regional Water Quality Control Board, Department of Health Services, Air Pollution Control District, California Integrated Waste Management Board, State Water Resources Control Board, and California Coastal Commission, environmental construction management services, characterization at NPL sites, RCRA, SARA, CERCLA, TSCA, CWA, SWDA, and CIWMB projects, technical studies for inclusion in CEQA/NEPA documents, preliminary endangerment assessments, expert witness and litigation support, enhanced oil recovery projects, and extensive drilling in the U.S. and abroad.

REPRESENTATIVE PROJECT EXPERIENCE

Metropolitan Transit Development Board, On-Call 5-Year Environmental Services Contract, San Diego County, California Contract Manager and Principal Environmental Geologist for this on-call contract. Mr. Beck's services have included third party review, regulatory liaison, site assessments, permitting, stormwater compliance, construction management services, hazardous materials management and disposal, and lead and asbestos abatement oversight. Most recently, Mr. Beck has been integrally involved in the Mission Valley East Light Rail Extension project, providing critical senior technical expertise and quality review on stormwater pollution prevention protocols.

San Diego City Schools, As Needed Environmental Consulting Services Contract, San Diego, California: Principal-in-Charge, Technical Advisor, and QA/QC Manager for Phase I Environmental Site Assessments (ESA) at 13 proposed and existing elementary, middle, and high school sites within the jurisdiction of the San Diego Unified School District (SDUSD). The proposed sites included properties with existing commercial, industrial, and residential land uses. Phase II ESAs were also conducted on 9 existing SDUSD school sites and 2 proposed SDUSD school sites. Mr. Beck also provided technical input and report preparation assistance regarding implementation of Remedial Action Workplans at several of the sites to cleanup lead and organochlorine pesticides in soil. This work was performed under the direction of the California Department of Toxic Substances Control.

County of San Diego Burnsite and Landfill Engineering Services As-Needed Contract, Various Locations, San Diego County, California: Principal-in-Charge and Technical Advisor for an on-call environmental services to the County of San Diego Department of Public Works as part of its three year, $500,000, Burn Site and Landfill Engineering Services As-Needed Contract. The general scope of work for this contract focuses on conducting investigations and remedial action at County inactive solid waste disposal sites, most of which are former burn sites. The specific engineering services required by the County include characterizing and delineating former burn sites; preparing landfill closure and post-closure maintenance plans; preparing construction plans, specifications, and cost estimates for landfill maintenance projects; implementing remedial action plans, preparing of health and safety plans; value engineering; and assistance during the bidding process for construction activities.

REPRESENTATIVE PROJECT EXPERIENCE (continued)

Centre City Development Corporation (CCDC), On-call Environmental Consulting Services Contract, San Diego, California: Contract Manager and Principal Environmental Geologist on this on-call contract. Our services on this contract in the past years have included performing Phase I and Phase II Environmental Assessments on Downtown San Diego properties slated for purchase and redevelopment, third-party review of environmental consultants reports, and development and implementation of soil management protocols on construction sites within the CCDC jurisdiction. Mr. Beck performed complex third-party reviews and acted as Technical Liaison for the CCDC, working with stakeholders and regulators on complex urban redevelopment projects. As an example, Mr. Beck authored and has helped to implement the conclusions of a hazardous materials constraints analysis as part of the Downtown Community Plan Update and Master Environmental Impact Report. The analysis presented a summary of current downtown San Diego redevelopment trends in hazardous materials management from a regulatory and practical perspective, suggested methods that have proven effective in the identification, assessment, and mitigation of environmental issues, and provided general conclusions regarding the potential impact of hazardous materials releases on redevelopment in the 1500 acre downtown area. Mr. Beck was commended by the CCDC and other key downtown stakeholders for this concise and technically sound planning document.

San Diego Unified Port District, San Diego, California: Since 1994, Mr. Beck has been Program Director, Project Manager, Technical Advisor, and QA/QC Manager on numerous Port District on-call site assessment contracts involving Phase I due diligence, Phase II investigation, National Contingency Plan, Preliminary Endangerment Assessment, Remedial Investigation, Feasibility Studies, Risk Assessment, Public Participation Plans, Remedial Action Plans, NEPA/CEQA studies, and dealing with regulatory compliance issues and public concerns. Mr. Beck's involvement on such projects as the San Diego Convention Center Expansion and the Naval Training Center Landfill, has led to the swift and successful completion of these high profile, environmentally sensitive projects. Mr. Beck continues to provide technical input, QA/QC management, and regulatory liaison and negotiation for the former Campbell Shipyard remediation (landside and sediment), the East Parking Lot remediation of coal gasification wastes, the Tow Basin PCB remediation, and the assessment of contamination at the future Spinnaker Hotel site.

San Diego County Regional Airport Authority (SDCRAA) On-Call Services Agreement, San Diego, California: Principal Environmental Geologist for this contract, provided technical input and services to SDCRAA regarding environmental issues pertaining to airport operations, maintenance, construction, and expansion.. Mr. Beck also is Principal Environmental Geologist and Contract Manager for the environmental constraints study for the final alternative sites that will considered as potential locations for either a new airport or the expansion of existing facilities.

California Integrated Waste Management Board (CIWMB) Closed, Illegal and Abandoned Disposal Site Investigation Program, Various Locations, California: Principal-in-Charge and Technical Advisor for the Closed, Illegal and Abandoned (CIA) Site Investigation Program. This contract includes subsurface investigations of illegal disposal sites, solid waste disposal and co disposal sites where further site characterization is necessary for monitoring, enforcement action, or site cleanup. Investigations have included excavating and logging trenches and test pits and drilling borings to characterize subsurface materials, delineation of the extent of burned wastes or other buried wastes to evaluate recommended remedial action. The disposal site projects have all been sites where there has been an identified potential risk to human health and the environment.

NTC Inactive Landfill, San Diego, California: Principal-in-Charge and Technical Advisor for the Naval Training Center Inactive Landfill. The project involved identifying, delineating and characterizing buried wastes, a geotechnical investigation, evaluating remedial action alternatives, providing cost estimates for implementing corrective action, extensive interfacing with the client, RWQCB, CIWMB and other agencies, and presentation of data at various meetings and to technical advisory boards. A subsequent subsurface investigation to delineate the extent of burned wastes within the site and in outlying areas and to characterize the burn material in accordance with LEA requirements. Principal reviewer of the remedial action plan to clean close the site by removing the wastes and affected media.

Chula Vista Bayfront Master Plan EIR, Chula Vista, California: Principal Environmental Geologist for a hazardous materials technical study (HMTS) for the Chula Vista Bayfront Master Plan. The technical report will be utilized in the preparation of an Environmental Impact Report (EIR), and is not intended for the purpose of design or construction. The project area consists of a number of parcels along the bayfront in the city of Chula Vista, California totaling approximately 550 acres under the ownership and jurisdiction of the San Diego Unified Port District (Port), including land acquired from B.F. Goodrich, vacant and underutilized areas, and the existing South Bay Power Plant parcel. Mr. Beck's services included review of maps, reports and other environmental documents pertaining to the site; review regulatory agency databases for the site and for properties located within a 1,000-foot radius of the project area; and review of a HMTS report documenting findings and providing opinions and recommendations regarding possible environmental impacts to the project area.