

## **APPENDIX G**

### **IN-WATER HULL CLEANING PAUSE WATER QUALITY MONITORING TECHNICAL REPORT**

**FINAL  
IN-WATER HULL CLEANING PAUSE  
WATER QUALITY MONITORING  
TECHNICAL REPORT**



**Submitted to:**



**Port of San Diego  
3165 Pacific Highway  
San Diego, California 92101**

**Prepared by:**



**Wood Environment & Infrastructure Solutions, Inc.  
9177 Sky Park Court  
San Diego, California 92123**

**September 2022**

**Wood Project No. 2015100113**



## TABLE OF CONTENTS

	Page
ACRONYMS AND ABBREVIATIONS .....	iv
UNITS OF MEASURE.....	v
EXECUTIVE SUMMARY .....	ES-1
1.0 INTRODUCTION.....	1-1
1.1 Background.....	1-1
1.2 Report Organization.....	1-3
2.0 METHODS .....	2-1
2.1 Hull Cleaning Inspections and Visual Observations .....	2-1
2.1.1 Check In/Paperwork Review .....	2-1
2.1.2 Dock Walk Inspection.....	2-2
2.1.3 Enforcement.....	2-3
2.1.4 Visual Observations for Marine Growth .....	2-3
2.1.5 Alternative Cleaning Locations .....	2-3
2.2 Water Quality Monitoring Program .....	2-4
2.2.1 Monitoring Station Locations .....	2-4
2.2.2 Monitoring Timeline .....	2-8
2.2.3 Sample Collection .....	2-10
2.2.4 Equipment Decontamination and Cleaning.....	2-11
2.2.5 Analytical Methods .....	2-14
2.3 Quality Assurance and Quality Control.....	2-14
2.3.1 Field QA/QC.....	2-14
2.3.2 Laboratory Analytical QA/QC .....	2-15
2.4 Data Review, Management, and Analysis .....	2-15
2.4.1 Data Review.....	2-15
2.4.2 Data Management.....	2-16
2.4.3 Data Analysis .....	2-16
3.0 RESULTS AND DISCUSSION .....	3-1
3.1 Hull Cleaning Inspections and Visual Observations .....	3-1
3.1.1 General Facility and Water Quality Conditions .....	3-1
3.1.2 Diver Activity .....	3-5
3.2 Weekly Water Quality Monitoring .....	3-10
3.2.1 Weekly Physical Water Quality Parameters .....	3-10
3.2.2 Weekly Dissolved Copper Monitoring.....	3-13
3.3 Storm Monitoring Event.....	3-20
3.3.1 Storm Event Physical Water Quality Parameters.....	3-21
3.3.2 Storm Event Analytical Chemistry .....	3-22
3.4 Other Environmental Factors to Consider .....	3-24
3.5 Quality Assurance and Quality Control.....	3-26
4.0 SUMMARY OF MONITORING PROGRAM FINDINGS .....	4-1
5.0 REFERENCES.....	5-1

## LIST OF TABLES

	<b>Page</b>
Table 2-1. Monitoring Station Target Coordinates – Weekly Monitoring .....	2-5
Table 2-2. Monitoring Station Target Coordinates – Storm Event Outfall Monitoring .....	2-5
Table 2-3. Stations Sampled During Each Monitoring Event .....	2-8
Table 2-4. Analytical Methods and Target Method Detection and Reporting Limits .....	2-14
Table 3-1. Summary of Significant Visual Observations During the Hull Cleaning Pause ....	3-3
Table 3-2. Instances of Observed Diver Activity During the Hull Cleaning Pause .....	3-5
Table 3-3. Observed Instances of Non-Copper Hull Cleaning During the Hull Cleaning Pause .....	3-7
Table 3-4. Weekly Surface <sup>a</sup> Water Quality Parameters Before, During, and After Pause ..	3-11
Table 3-5. Weekly Dissolved Copper Concentrations Before, During, and After the Hull Cleaning Pause .....	3-14
Table 3-6. Water Quality Parameters Before and After Week 4 Storm .....	3-21
Table 3-7. Outfall Chemistry Results from 12/14/21 Storm .....	3-22
Table 3-8. Receiving Water Chemistry Results Before and After 12/14/21 Storm .....	3-22
Table 3-9. Evaluation of Environmental Factors that May Affect Ambient Copper Levels in SIYB .....	3-25

## LIST OF FIGURES

	<b>Page</b>
Figure 1-1. Copper Leach Rates Over Hull Paint Life Cycle (Earley et al., 2013) .....	1-2
Figure 2-1. Target Core and Enhanced Monitoring Stations .....	2-6
Figure 2-2. Target Outfall Monitoring Stations .....	2-7
Figure 2-3. Sample Collection Times Over Tidal Cycles – Weekly Monitoring .....	2-9
Figure 2-4. Sample Collection Times Over Tidal Cycles – Storm Monitoring Event .....	2-10
Figure 2-5. Weekly Water Quality Monitoring Field Photographs .....	2-12
Figure 2-6. Storm Monitoring Event Field Photographs .....	2-13
Figure 2-7. Basin Region Designations for Each Monitoring Station .....	2-17
Figure 3-1. General Facility Activity During Hull Cleaning Pause Inspections .....	3-1
Figure 3-2. Topside Maintenance Activity During Hull Cleaning Pause Inspections .....	3-2
Figure 3-3. Floatables and Vegetation Observed During Hull Cleaning Pause Inspections .....	3-2
Figure 3-4. Map of Non-Copper Hull Cleanings and Diver Tags Observed During the Hull Cleaning Pause .....	3-5
Figure 3-5. Characterization of Observed Diver Activity During the Hull Cleaning Pause ....	3-6
Figure 3-6. Photos of Fouling on Vessel Hulls During the Hull Cleaning Pause .....	3-8
Figure 3-7. Daily Rainfall Over the Course of the Monitoring Program .....	3-12
Figure 3-8. Weekly Average Dissolved Copper Concentrations at Core and Enhanced Monitoring Stations Over Time .....	3-15
Figure 3-9. Dissolved Copper Concentrations at Individual Monitoring Stations Over Time .....	3-17
Figure 3-10. Dissolved Copper Concentrations By Region During Each Monitoring Phase ..	3-19
Figure 3-11. Dissolved Copper Concentrations Before and After Storm Event .....	3-23

## **LIST OF APPENDICES**

---

APPENDIX A IN-WATER HULL CLEANING INSPECTION REPORTS

APPENDIX B WATER QUALITY MONITORING FIELD DATA SHEETS  
AND QA CHECKLISTS

APPENDIX C WECK LABORATORIES ANALYTICAL CHEMISTRY REPORTS

APPENDIX D SUPPLEMENTAL DATA ANALYSIS AND GRAPHS

## **ACRONYMS AND ABBREVIATIONS**

---

AFP	antifouling paint
Amec Foster Wheeler	Amec Foster Wheeler Environment & Infrastructure, Inc.
CEDEN	California Environmental Data Exchange Network
COC	chain-of-custody
ELAP	California Environmental Laboratory Accreditation Program
EMC	event mean concentration
ER	equipment rinsate
FB	field blank
Hull Cleaning Pause	In-Water Hull Cleaning Pause
ID	identifier
IE	initial exposure
LCS	laboratory control sample
LIMS	Laboratory Information Management System
MLLW	mean lower low water
Monitoring Program	In-Water Hull Cleaning Pause Water Quality Monitoring Program
MS	matrix spike
MS4	Municipal Separate Storm Sewer System
MSD	matrix spike duplicate
N/A	not applicable
NAVWAR	Naval Information Warfare Systems Command
ND	non-detect
NELAP	National Environmental Laboratory Accreditation Program
NOAA	National Oceanic and Atmospheric Administration
NR	not recorded
Pause	In-Water Hull Cleaning Pause
PDF	Portable Document Format
PES	polyethersulfone
PM	project manager
Port	Port of San Diego
Q	quarter
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
Regional Board	San Diego Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
SE	standard error
SIYB	Shelter Island Yacht Basin
SIYB TMDL	Shelter Island Yacht Basin Dissolved Copper Total Maximum Daily Load
SM	Standard Method
SR <sub>CE</sub>	surface refreshment from cleaning event
SOP	standard operating procedure
SPAWAR	Navy Space and Naval Warfare Systems Center Pacific
SWAMP	Surface Water Ambient Monitoring Program
SWRCB	State Water Resources Control Board
TMDL	Total Maximum Daily Load
TSS	total suspended solids

## ACRONYMS AND ABBREVIATIONS (CONTINUED)

---

USEPA	United States Environmental Protection Agency
Weck	Weck Laboratories, Inc.
Wood	Wood Environment & Infrastructure Solutions, Inc.
WQ	water quality
WQO	water quality objective

## UNITS OF MEASURE

---

%	percent
±	plus or minus
°C	degree(s) Celsius
Cu $\mu\text{g}/\text{cm}^2\text{d}^{-1}$	copper leach rate in microgram(s) per square centimeter per day
$\mu\text{g}/\text{L}$	microgram(s) per liter
$\mu\text{m}$	micrometer(s) or micron(s)
ft	foot/feet
in.	inche(s)
kg/yr	kilogram(s) per year
mg/L	milligram(s) per liter
ppt	part(s) per thousand

## EXECUTIVE SUMMARY

---

This technical report presents the findings of the In-Water Hull Cleaning Pause (Hull Cleaning Pause or Pause) Water Quality Monitoring Program conducted in Shelter Island Yacht Basin (SIYB) from November 2021 through March 2022. The Hull Cleaning Pause Monitoring Program was designed to evaluate the potential impacts of hull cleaning on water quality in SIYB.

SIYB waters contain dissolved copper concentrations that have exceeded the dissolved copper water quality objectives (WQOs) and may threaten and impair the wildlife habitat and marine habitat beneficial uses in the basin (San Diego Regional Water Quality Control Board [Regional Board], 2005). Because of these exceedances, SIYB was placed on the list of impaired water bodies compiled pursuant to federal Clean Water Act Section 303(d).

To address this impairment, the SIYB Dissolved Copper Total Maximum Daily Load (SIYB TMDL) was adopted in 2005 under Resolution No. R9-2005-0019 (Regional Board, 2005). As part of the TMDL process, a conceptual model was developed to assign loading estimates to various copper sources in SIYB and resolve impairment by requiring a reduction in loading of dissolved copper into SIYB waters from the identified sources. One of the primary sources of dissolved copper loading is the passive leaching of copper-based antifouling paints (AFPs) applied to the vessels moored in SIYB, and the other is the in-water hull cleaning of these copper-based AFPs.

In the SIYB TMDL Conceptual Model, 5 percent (%) of the annual dissolved copper load to SIYB is attributed to hull cleaning of copper-based AFPs, while 93% is attributed to passive leaching of copper-based AFPs (Regional Board, 2005). However, a more recent study (Earley et al., 2013) found that dissolved copper leach rates were enhanced not only during the initial cleaning, but for two to three days following the cleaning event, and then slowly declined until reaching a “pseudo steady state” approximately 30 days post-cleaning. As such, the Earley et al. (2013) study suggests that dissolved copper loading associated with hull cleaning may account for a greater load contribution (i.e., greater than 5%) than previously modeled in the TMDL.

To better understand the relationship between hull cleaning and water quality in SIYB, the Port of San Diego (Port) (1) implemented a temporary pause in hull cleaning of vessels with copper-based AFPs in SIYB, and (2) conducted water quality monitoring before, during, and after the Hull Cleaning Pause to evaluate dissolved copper levels in SIYB. This effort was conducted in partnership with the Regional Board.

Based on the findings presented in Earley et al. (2013), it was theorized that a complete pause in hull cleaning in SIYB for longer than the 30-day period expected for copper release rates to return to a “pseudo steady state” would result in an observable decrease in dissolved copper levels in the basin, as the load contribution from hull cleaning was reduced to zero. It was further theorized that if the hull cleaning load was substantially greater than the modeled 5% from the SIYB TMDL, then a corresponding decrease in dissolved copper may shift the basin-wide water quality substantially closer to the 3.1 micrograms per liter (µg/L) water quality standard.

The Hull Cleaning Pause Water Quality Monitoring Program was designed to address the following question:

*How does a pause in hull cleaning affect dissolved copper concentrations in SIYB?*

The Port adopted an amendment to its Hull Cleaning Ordinance (Article 4.14 of the District Code) to implement a temporary pause in hull cleaning. The ordinance amendment prohibited the hull cleaning of vessels with copper-based AFPs in SIYB from December 19, 2021 through February 9, 2022 (approximately eight weeks).

To assess the effects that a pause in hull cleaning could have on dissolved copper levels in the water, a 16-week Monitoring Program was designed and implemented in SIYB concurrently with the Hull Cleaning Pause. The program included the following components:

1. Hull cleaning inspections and visual observations: To ensure compliance with the Hull Cleaning Ordinance amendment, Port staff conducted frequent inspections throughout SIYB during the Hull Cleaning Pause to look for hull cleaning activity and document visual observations of hull fouling and water conditions in the basin. Additionally, the Port established alternative locations to allow vessels with copper-based AFPs to be cleaned outside of SIYB during the Hull Cleaning Pause.
2. Weekly water quality monitoring: Surface water quality sampling was performed weekly for the duration of the Monitoring Program to evaluate concentrations of dissolved copper in SIYB for four weeks leading up to the Hull Cleaning Pause, eight weeks during the Pause, and four weeks following the Pause. Samples for dissolved copper analyses were collected from 13 core monitoring stations plus two reference stations every week and supplemented with samples from seven additional enhanced stations every other week.
3. Storm monitoring event: Stormwater sampling and surface water quality sampling was performed before and after one storm event during the Monitoring Program to evaluate potential effects of stormwater discharge on copper levels in SIYB and on the Hull Cleaning Pause monitoring results.

Key findings from each component of the Monitoring Program are presented below.

- There was an apparent increase in the dissolved copper levels throughout the basin during the Pre-Pause period and extending through the first two weeks of the Pause, particularly at the inner basin stations and the stations in closer proximity to vessels (i.e., enhanced stations). There was also a noticeable increase in hull cleaning activities in the last two weeks of the Pre-Pause period as boaters and hull cleaners prepared for the Hull Cleaning Pause. Under the assumption that dissolved copper leach rates spike following cleaning events, the increase in dissolved copper concentrations observed during the Pre-Pause period and beginning of the Pause period, particularly in the inner basin, could be attributed to an increase in hull cleaning activities.
- After the first two weeks of the Pause, dissolved copper concentrations began to trend downward over the remainder of the Pause period. This trend continued through the Post-Pause period. This finding was consistent with that presented in Earley et al. (2013), with the expected spike in dissolved copper concentrations from hull cleaning activities gradually diminishing as concentrations returned to “pseudo steady state” after the first 30 days of the Pause. The hull cleaning inspections conducted throughout the eight-week Hull Cleaning Pause did not find any instances where divers were cleaning or had cleaned (via dive tag observations) vessels with copper-based AFPs. This finding was further supported by the notable increase in marine growth (fouling) on vessel hulls throughout the basin over the course of the Pause.

- Following the Pause, it was assumed that hull cleaning frequency would increase to Pre-Pause levels as cleaning activities resumed. However, observations during dock walks conducted in the Post-Pause period did not indicate a notable increase in hull cleaning, suggesting that there may have been a delay in resuming routine hull cleaning activities following the Pause. This may have contributed to the continued slight downward trend in dissolved copper concentrations following the Pause.
- The results of the pre- and post-storm weekly monitoring events suggested that stormwater discharge did not contribute a substantial amount of copper loading to SIYB. While the storm did appear to have an overall mixing effect on the spatial distribution of dissolved copper in SIYB (i.e., more uniform concentrations throughout the basin after the storm), the basin-wide average dissolved copper concentrations remained the same before and after the storm (11 µg/L). As such, storm events and associated stormwater runoff are not expected to have had any significant impact on dissolved copper levels or conclusions related to the effects of hull cleaning on dissolved copper concentrations throughout the Monitoring Program.
- While there was an observed decrease in basin-wide dissolved copper levels during the Pause and Post-Pause periods, it should be noted that the basin-wide average measured during the final week of the Monitoring Program (7.2 µg/L in Week 16) was similar to that measured during Week 1 (6.5 µg/L). These basin-wide average dissolved copper concentrations were also consistent with those measured during previous TMDL monitoring events (Wood, 2022a).
- While a pause in the hull cleaning of vessels with copper-based AFPs does decrease the load of dissolved copper into the basin, leading to subsequent reductions in dissolved copper concentrations, it appears that changes to the basin-wide dissolved copper concentrations are minimal when compared with the passive leaching of copper-based AFPs, which is the predominant source of copper loading to the basin.
- Despite observed decreases in dissolved copper levels during the Pause and Post-Pause periods, the total cessation of hull cleaning during the Monitoring Program was insufficient to reduce the basin-wide dissolved copper levels to a level that would achieve the current water quality standard (3.1 µg/L).

This report is intended to present results from the Monitoring Program to enable stakeholders, including regulatory agencies, to use this information to discuss and determine next steps for SIYB and other copper-related regulatory actions, where applicable. It should be noted that limitations to these findings include both the Monitoring Program location (i.e., SIYB) and duration of the Hull Cleaning Pause period. It is unknown whether a pause in hull cleaning of copper-based AFPs in a different location or for a longer duration would result in a more substantial reduction in dissolved copper.



## 1.0 INTRODUCTION

---

This technical report presents the results of the In-Water Hull Cleaning Pause (Hull Cleaning Pause or Pause) Water Quality Monitoring Program (Monitoring Program) conducted in Shelter Island Yacht Basin (SIYB) from November 2021 through March 2022. This Monitoring Program was designed to evaluate the potential impacts of hull cleaning on water quality in SIYB.

To better understand the relationship between hull cleaning and water quality in SIYB, the Port of San Diego (Port) (1) implemented a temporary pause in hull cleaning of copper-based antifouling paints (AFPs) in SIYB, and (2) conducted water quality monitoring before, during, and after the Hull Cleaning Pause to evaluate dissolved copper levels in SIYB. This effort was conducted in partnership with the San Diego Regional Water Quality Control Board (Regional Board).

A combined Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP) was prepared by Wood Environment & Infrastructure Solutions, Inc. (Wood), in collaboration with the Port and Regional Board, and finalized in November 2021 (Wood, 2021a). The combined SAP/QAPP details the Monitoring Program designed and implemented to address the following question:

*How does a pause in hull cleaning affect dissolved copper concentrations in SIYB?*

### 1.1 Background

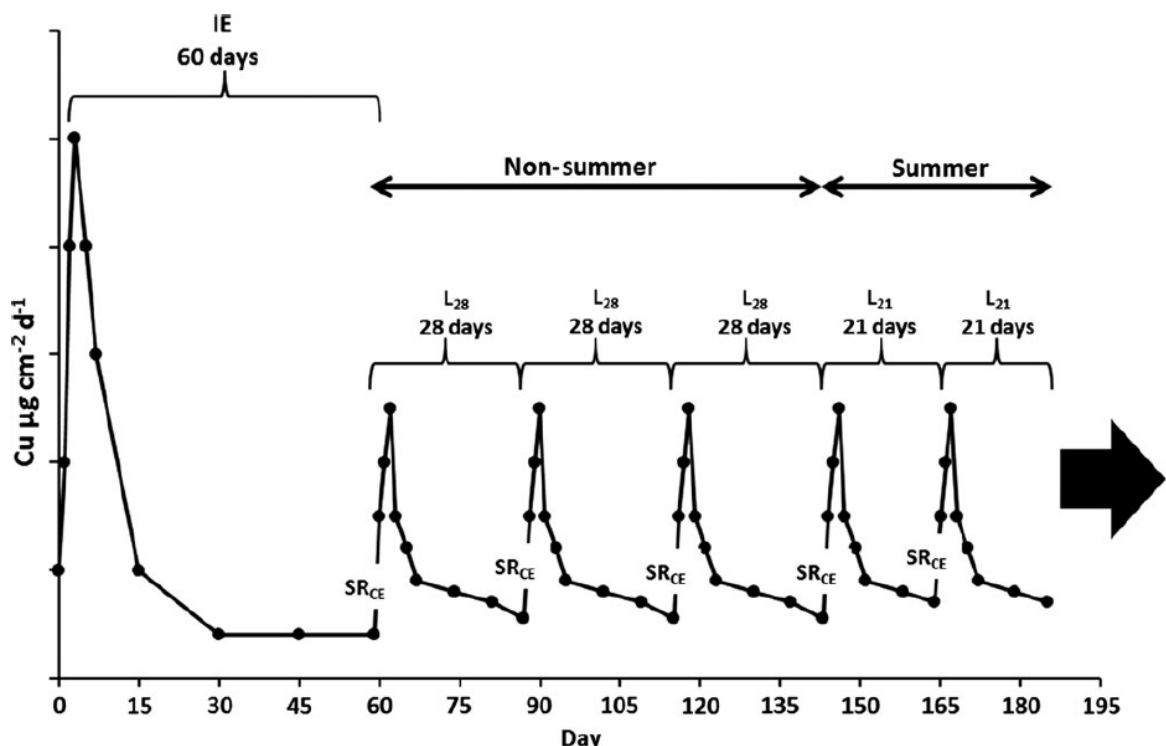
SIYB waters contain dissolved copper concentrations that have exceeded the dissolved copper numeric water quality objectives (WQOs), as well as the toxicity and pesticides narrative WQOs. These water quality conditions may threaten and impair the wildlife habitat and marine habitat beneficial uses in the basin (Regional Board, 2005). Because of these exceedances, SIYB was placed on the list of impaired water bodies compiled pursuant to federal Clean Water Act Section 303(d). To address this impairment, the SIYB Dissolved Copper Total Maximum Daily Load (SIYB TMDL) was adopted in 2005 under Resolution No. R9-2005-0019 (Regional Board, 2005). As part of the TMDL process, a conceptual model was developed to assign loading estimates to various copper sources in SIYB and resolve impairment by requiring a reduction in loading of dissolved copper into SIYB waters from the identified sources. As stated in the SIYB TMDL, to achieve compliance by the end of 2022, the dissolved copper load to SIYB must be reduced to an annual load of 567 kilograms per year (kg/yr).

Recreational marine vessels moored in harbors and marinas are subject to biofouling (i.e., attachment and growth of aquatic organisms on vessel surfaces). Vessel hulls are commonly coated with copper-based AFPs that act as a toxicant by releasing copper and inhibiting growth of fouling organisms. Periodic hull cleaning occurs throughout the coating life cycle to maintain a bottom surface that is free of marine organisms. Copper loading associated with passive leaching of AFPs and periodic cleaning activities to refresh the paint surface results in dissolved copper levels that exceed current water quality regulatory criteria in SIYB.

The SIYB TMDL Conceptual Model identifies that copper-based AFP sources contribute the majority of dissolved copper loading to SIYB. The greatest source of loading is the passive leaching of copper-based AFPs applied to the vessels moored in SIYB, accounting for approximately 93 percent (%; 2,000 kg/yr of copper) of total loading. The SIYB TMDL Conceptual

Model identifies that hull cleaning of copper-based AFPs accounts for approximately 5% (100 kg/yr of copper) of total loading (Regional Board, 2005). Other sources<sup>1</sup> were found to be nominal in the SIYB TMDL Conceptual Model.

A study conducted by the Navy Space and Naval Warfare Systems Center Pacific (SPAWAR) (now known as Naval Information Warfare Systems Command [NAVWAR]) evaluated leach rates resulting from both the act of hull cleaning and its residual effects following the active cleaning of the hull over the life cycle of a paint. This study titled, “*Life Cycle Contributions of Copper from Vessel Painting and Maintenance Activities*” (Earley et al., 2013), used *in situ* data collection methods and best available science to evaluate copper loading and potential environmental impacts associated with hull cleaning. This study measured copper release rates following periodic hull cleaning events to better understand the relative contribution of passive leaching and hull cleaning to annual loading over an estimated three-year paint life cycle. A graphical depiction of the life cycle of a copper-based AFP based on the findings presented in Earley et al. (2013) is provided in Figure 1-1. The life cycle of the paint includes initial exposure (IE) after paint application, followed by paint surface refreshment via cleaning events (SR<sub>CE</sub>) every 21 days during summer months (June, July, August) and every 28 days during non-summer months.



**Figure 1-1. Copper Leach Rates Over Hull Paint Life Cycle (Earley et al., 2013)**

Credit: Early et al. (2013)

Notes: Cu μg/cm<sup>2</sup>d<sup>-1</sup> = copper leach rate in microgram(s) per square centimeter per day; IE = initial exposure; L<sub>21</sub> = 21 days between cleaning events; L<sub>28</sub> = 28 days between cleaning events; SR<sub>CE</sub> = surface refreshment from cleaning event

<sup>1</sup> As stated in the Regional Board Technical Report, dissolved copper loading from urban runoff is marginal compared with loading from the other anthropogenic sources, at approximately 1% (30 kg/yr) of the total load. In addition, copper is found naturally in seawater, and background loading accounts for approximately 1% (30 kg/yr). Direct atmospheric deposition was also determined to be a relatively insignificant contributor of dissolved copper, accounting for less than 1% (3 kg/yr) of the total load. Lastly, sediment was found to act primarily as a sink, rather than a source, of dissolved copper under current loading conditions to SIYB (Regional Board, 2005).

The study results indicate that copper leach rates spike for two to three days following each cleaning event and then slowly decline until reaching a “pseudo steady state” approximately 30 days after cleaning. The study further indicates that increases in copper leach rates may occur for approximately 30 days following hull cleaning activity, which can vary the contribution of hull cleaning-related loading from 5% to more than 40% of annual copper load per vessel, depending on the cleaning methods and frequency.

Findings presented in Earley et al. (2013) suggest that loading associated with hull cleaning may account for a greater percentage of loading than previously modeled in the SIYB TMDL. However, the relationship between copper loading associated with hull cleaning and water quality (i.e., dissolved copper concentrations) is unclear. Thus, a recommendation was made in the *2020 SIYB Dissolved Copper TMDL Annual Monitoring and Progress Report* (Wood, 2021b) to fill data gaps associated with the effects of hull cleaning on water quality. The Hull Cleaning Pause and concurrent water quality monitoring program described in this report were designed and implemented to fulfill this recommendation.

## 1.2 Report Organization

This Hull Cleaning Pause Water Quality Monitoring technical report is organized as follows:

- Section 1, **Introduction**, introduces the Hull Cleaning Pause Water Quality Monitoring Program, including background information and objectives.
- Section 2, **Methods**, describes the Monitoring Program design components, including hull cleaning inspection, field sampling, and analytical methodology, as well as quality assurance (QA) and quality control (QC) procedures used during water quality monitoring and data analysis.
- Section 3, **Results and Discussion**, presents and discusses hull cleaning inspection and water quality monitoring results, including an assessment of data quality and usability for the analytical chemistry results.
- Section 4, **Summary of Monitoring Program Findings**, summarizes findings and addresses the Monitoring Program question and objectives.
- Section 5, **References**, lists references for literature sources cited in this document.

## 2.0 METHODS

---

The Monitoring Program was designed to evaluate how a pause in hull cleaning of vessels with copper-based AFPs affects dissolved copper concentrations in SIYB. The Port adopted an amendment to its Hull Cleaning Ordinance (Article 4.14 of the District Code) to implement a temporary pause in hull cleaning. The ordinance amendment prohibited the hull cleaning of vessels with copper-based AFPs in SIYB from December 19, 2021 through February 9, 2022 (approximately eight weeks).

To assess the effects that a pause in hull cleaning could have on dissolved copper levels in SIYB waters, a concurrent 16-week Monitoring Program was designed and implemented in SIYB in accordance with the project-specific SAP and QAPP (Wood, 2021a). The program included the following components:

1. Hull cleaning inspections and visual observations: To ensure compliance with the Hull Cleaning Ordinance amendment, Port staff conducted frequent inspections throughout SIYB during the Hull Cleaning Pause to look for hull cleaning activity and document visual observations of hull fouling and water conditions in the basin. Additionally, the Port established alternative locations to allow vessels with copper-based AFPs to be cleaned outside of SIYB during the Hull Cleaning Pause.
2. Weekly water quality monitoring: Surface water quality sampling was performed weekly for the duration of the 16-week Monitoring Program to evaluate concentrations of dissolved copper in SIYB before, during, and after the pause in hull cleaning.
3. Storm monitoring event: Stormwater sampling and surface water quality sampling was performed before and after one storm event during the Monitoring Program to evaluate potential effects of stormwater discharge on copper levels in SIYB and on the Hull Cleaning Pause monitoring results.

This section describes the methodology, as well as QA/QC procedures used throughout the Monitoring Program and subsequent data analyses.

### 2.1 Hull Cleaning Inspections and Visual Observations

The Hull Cleaning Pause inspection process included multiple phases: (1) check in/paperwork review, (2) dock walk inspections, and (3) enforcement, when necessary.

An inspection form was developed to document observations for each step of the inspection process. All parts of the inspection were completed while onsite. The process below summarizes inspection methods.

#### 2.1.1 Check In/Paperwork Review

Inspectors notified the facility manager or dock master of their arrival and coordinated the paperwork review and inspection with that representative, as applicable. Inspectors reviewed the facility's check-in log to see which divers, if any, had accessed the facility that day, including those present at the time of inspection.

If divers were currently checked in or had been at that facility at any point during the day, inspectors recorded the diver name, hull cleaning company, and purpose of their activity as stated to the facility at check-in on the inspection form. Inspectors also reviewed the marina's check-in list to see whether cleaning may be occurring on vessels with non-copper hull paint.

Non-copper paints were confirmed and cleared for cleaning either prior to or during the Hull Cleaning Pause when either the marina manager, boat owner, or hull cleaning company provided documentation showing validation of non-copper paint for a specific vessel, along with facility and slip number, directly to Port staff. Port staff used the following tools to confirm the product was non-copper:

- Reviewed documentation verifying boatyard application of a non-copper paint;
- Compared provided product information with a list of commonly used confirmed non-copper paints in SIYB; or
- Performed online research to find additional information about the provided product to confirm its non-copper status.

When non-copper-painted vessels were confirmed, they were added to a list that was kept in the field binder, allowing inspectors to reference the paint status of a vessel in the field if divers were found cleaning the vessel during inspections.

### **2.1.2 Dock Walk Inspection**

Upon arrival on the docks, inspectors conducted a broad and general assessment of the overall facility conditions in terms of topside and in-water activities, water conditions, and weather, and completed the "General Observations" section of the inspection form (see Appendix A).

Inspectors walked the dock slips to identify either the presence of hull cleaners conducting work<sup>2</sup> and/or dive tags/receipts left at slips as notification of a previous visit. Inspectors reviewed the business dive tags and recorded the information on the inspection form section, including date of visit, purpose of visit, company name, and slip number.

If divers were observed in the water, inspectors approached the vessel and observed their activities to see whether the diver was conducting hull cleaning or general vessel maintenance on non-copper AFP painted surfaces (such as the cleaning of propellers and/or zinc anode replacement). Inspectors inquired as to the divers' activities and requested to see their Port-authorized card and check the Port-generated authorized list for their name and business.

If cleaning was occurring on a pre-authorized non-copper hull, inspectors made note and continued their dock walk. If it appeared that hull cleaning was occurring on a vessel that may have copper paint, the diver was instructed by the inspector to stop work and exit the water. Documentation showing proper verification of non-copper paint was required to be provided to

---

<sup>2</sup> Divers were permitted in the water to conduct routine maintenance (e.g., zinc anode replacement, engine maintenance) or to clean vessels with Port-verified non-copper hull paints.

the Port staff before cleaning activities could be resumed. The enforcement process was initiated if the hull cleaner and/or vessel owner were not able to provide hull paint verification.

Upon concluding the dock walk, inspectors checked out with the marina manager/dock master and discussed any discrepancies, including findings of hull cleaner activity on vessels with copper paints, or on vessels with potential non-copper paints that had not provided sufficient documentation.

### **2.1.3 Enforcement**

The inspection process included steps for identifying instances that would trigger enforcement, if it was confirmed that a vessel with copper AFP was being cleaned. The process included a coordination step between Port staff and marina managers to identify the boater and obtain the needed information to begin enforcement procedures. It is important to note that for the entire inspection program, proper documentation of non-copper paints was provided in each instance of the cleaning that was observed in the field. As a result, no citations were issued.

### **2.1.4 Visual Observations for Marine Growth**

Visual observations for marine growth were completed by inspectors throughout the Monitoring Program. Various vessels were photographed routinely during the Monitoring Program. Example photographs showing the steady increase in marine growth on vessel hulls over the course of the Hull Cleaning Pause are included in Section 3.1.2.

### **2.1.5 Alternative Cleaning Locations**

During the Hull Cleaning Pause, boaters were able to clean their vessels outside of SIYB if desired. The Port identified and advertised the following options for boaters who wanted to keep their hulls clean during the Hull Cleaning Pause.

- Coordination with the local boatyards – Boatyards were willing to have boaters contact them to schedule a haul-out for cleaning. Intrepid Landing offered special rates during the Hull Cleaning Pause to haul out and wash vessels from SIYB using a model of hauling out, cleaning, and putting vessels back into the water within a couple of hours. In addition to the special rates, the Port offered a subsidy that covered half the cost, making this a cost-effective alternative for power boats up to 40 feet in length and sailboats up to 45 feet in length. In total, approximately eight boaters utilized cleaning at Intrepid Landing.
- Encouragement of vessel use during the Hull Cleaning Pause – Boaters were encouraged to use their vessels during the Hull Cleaning Pause period as an alternative to hull cleaning. It has been established that the amount of fouling on a vessel hull can be reduced by regular use of a vessel.

Additionally, boaters were able to make their own arrangements for cleaning outside of SIYB if they chose to do so; however, tracking this was not included as part of the inspection program.

## 2.2 Water Quality Monitoring Program

The water quality monitoring program included weekly dissolved copper monitoring before, during, and after the Hull Cleaning Pause, as well as a supplemental storm monitoring event. Detailed monitoring procedures, including monitoring station locations, timeline, sample collection, and analytical methods, are provided in the following subsections.

### 2.2.1 Monitoring Station Locations

Samples were collected weekly from 13 core monitoring stations in SIYB and two reference stations outside of SIYB (Table 2-1, Figure 2-1). A subset of the core monitoring stations and both reference stations were co-located with the stations monitored annually for TMDL compliance (SIYB-1 through SIYB-6, SIYB-REF-1, and SIYB-REF-2). Additional core monitoring stations were selected at the ends of docks along the outer edges of marinas<sup>3</sup> and the main channel of SIYB to measure changes in dissolved copper concentrations that may result from a pause in hull cleaning activities. Samples were also collected biweekly from seven additional enhanced monitoring stations located within the inner portions of the marinas to provide supplemental data at a higher resolution and in closer proximity to vessels than the stations on the outer edges of the marinas along and within the main channel (Table 2-1, Figure 2-1).

The effect of a single large storm event on the influx of total and dissolved copper from stormwater was assessed by collecting samples from two outfalls located along the northwestern shoreline in the central region within SIYB (Table 2-2, Figure 2-2). Samples were also collected from core monitoring and reference stations after the storm to assess the effects of stormwater runoff on dissolved and total copper concentrations in the surface waters within SIYB.

Monitoring station coordinates are provided in Table 2-1 and depicted in Figure 2-1 for the core and enhanced monitoring stations and in Table 2-2 and Figure 2-2 for the outfalls. All stations were located using the Differential Global Positioning System. Weekly samples were collected either by dock or by vessel, as indicated in Table 2-1. Outfall samples were collected from land. To the greatest extent possible, samples were collected within approximately  $\pm 3$  meters of the target coordinates.

---

<sup>3</sup> Core monitoring stations were placed within or in the vicinity of each marina and yacht club in SIYB, as depicted in Figure 2-1.

**Table 2-1.**  
**Monitoring Station Target Coordinates – Weekly Monitoring**

Collection Strategy	Station Type	Station ID <sup>a</sup>	Collection Order	Latitude	Longitude
Vessel	Reference	C-REF-2/SIYB-REF-2	1	32.70926	-117.22544
	Reference	C-REF-1/SIYB-REF-1	2	32.70406	-117.23232
	Enhanced	E-20	3 <sup>b</sup>	32.71154	-117.23218
	Core	C-12/SIYB-5	4	32.71217	-117.23297
	Enhanced	E-19	5 <sup>b</sup>	32.71517	-117.23316
	Core	C-10	6	32.71586	-117.23270
	Core	C-11	7	32.71448	-117.23569
	Core	C-9	8	32.71742	-117.23372
	Core	C-8/SIYB-4	9	32.71683	-117.23203
	Core	C-7/SIYB-3	10	32.71550	-117.22989
	Enhanced	E-17	11 <sup>b</sup>	32.71722	-117.22882
	Core	C-5	12	32.71632	-117.22906
	Core	C-1/SIYB-1	13	32.71821	-117.22601
Dock	Core	C-13/SIYB-6	1	32.70858	-117.23514
	Enhanced	E-18	2 <sup>b</sup>	32.71434	-117.22819
	Core	C-6/SIYB-2	3	32.71412	-117.22921
	Enhanced	E-16	4 <sup>b</sup>	32.71557	-117.22658
	Core	C-4	5	32.71623	-117.22729
	Enhanced	E-15	6 <sup>b</sup>	32.71646	-117.22573
	Core	C-3	7	32.71699	-117.22635
	Enhanced	E-14	8 <sup>b</sup>	32.71739	-117.22452
	Core	C-2	9	32.71783	-117.22538

Notes:

C- = core; E- = enhanced; ID = identifier; REF- = reference; SIYB = Shelter Island Yacht Basin; TMDL = Total Maximum Daily Load

a. A subset of the core monitoring stations and both reference stations were co-located with the stations monitored annually for TMDL compliance. These stations include both the Hull Cleaning Pause station ID and the SIYB TMDL station ID for reference.

b. Enhanced stations were sampled biweekly and therefore were excluded from collection order during core monitoring events.

**Table 2-2.**  
**Monitoring Station Target Coordinates – Storm Event Outfall Monitoring**

Collection Strategy	Station Type	Station ID	Latitude	Longitude
Landside	Stormwater Outfall	OF-1	32.71603	-117.23550
	Stormwater Outfall	OF-2	32.71892	-117.23144

Notes:

ID = identifier; OF- = outfall





**Figure 2-1. Target Core and Enhanced Monitoring Stations**

Notes: BCM = Bay Club Marina; CN = Crow's Nest Yachts; GCA = Gold Coast Anchorage; HMM; Half Moon Marina; KKM = Kona Kai Marina; LPYC = La Playa Yacht Club; SDYC = San Diego Yacht Club; SGYC = Silver Gate Yacht Club; SIYB = Shelter Island Yacht Basin; SIM = Shelter Island Marina; SWYC = Southwestern Yacht Club; TL = Tonga Landing



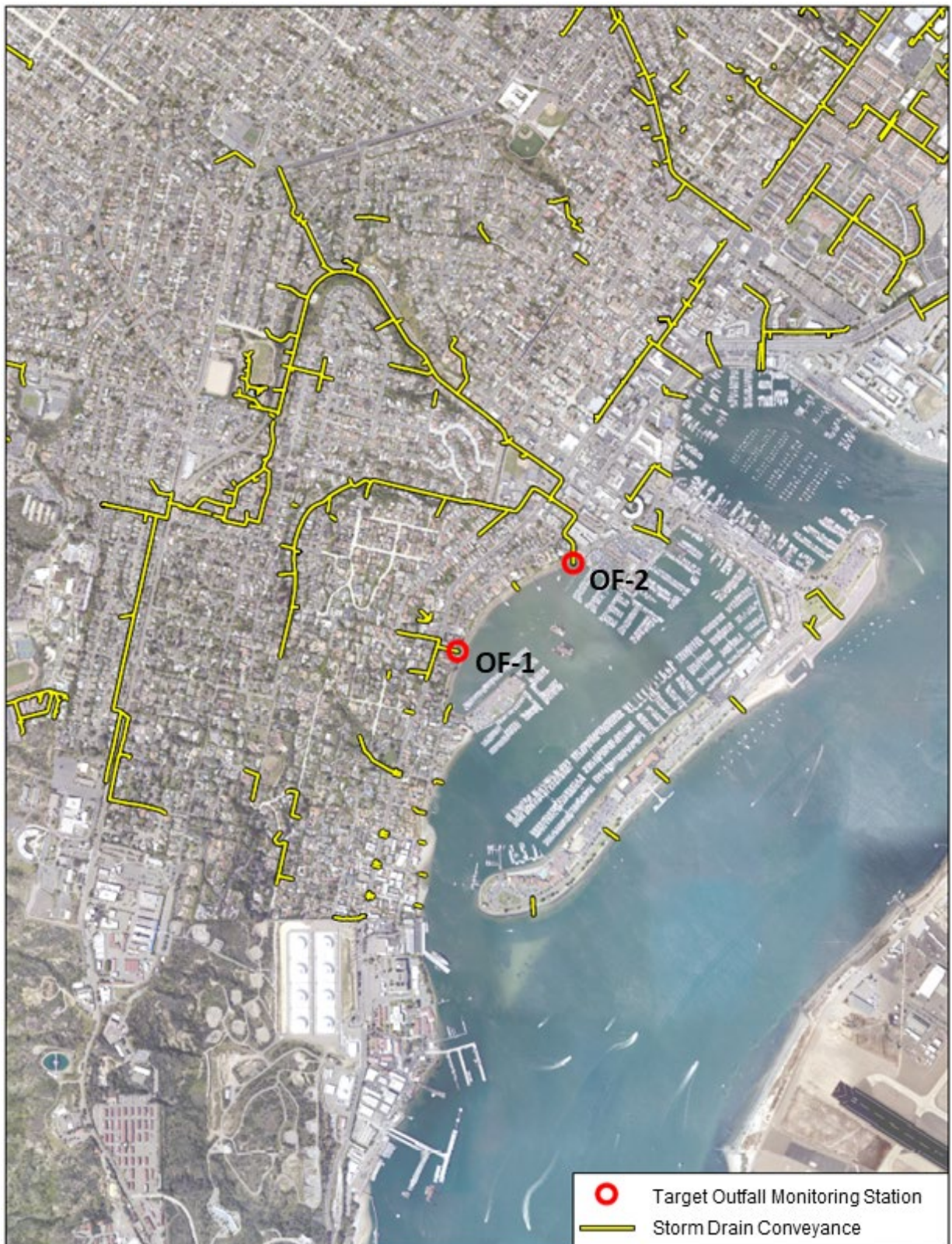


Figure 2-2. Target Outfall Monitoring Stations

## 2.2.2 Monitoring Timeline

The Hull Cleaning Pause Monitoring Program was divided into three phases spanning 16 weeks:

- **Pre-Pause** phase included weekly sampling for four weeks prior to the Hull Cleaning Pause.
- **Pause** phase included weekly sampling for eight weeks during the Pause.
- **Post-Pause** phase included weekly sampling for four weeks after the Pause.

Throughout the 16-week Monitoring Program, core and reference stations were sampled weekly, while enhanced stations were sampled biweekly (i.e., every other week; Table 2-3), to assess dissolved copper concentrations over time. Samples were collected at roughly the same time each week (generally Monday or Tuesday mornings), avoiding sampling immediately following rain events to minimize potential effects of stormwater runoff on sampling results. Because samples were collected weekly over a 16-week period, it was infeasible to collect samples at each individual station at the same tidal stage. However, the length of the Monitoring Program allowed for samples to be collected over a broad range of tidal cycles to be more representative of overall conditions in SIYB. To randomize the effects of tides over the course of the Monitoring Program, monitoring stations were sampled in the same order during each monitoring event. Sample collection times over the tidal cycle for each sampling date are shown in Figures 2-3 and 2-4.

In addition to weekly sampling, one qualifying storm event (i.e., event producing greater than 0.25 inch of rain) was sampled during the Monitoring Program to assess potential effects of stormwater runoff on copper levels in SIYB. Storm event sampling was conducted over three consecutive days (December 13–15, 2021) during Week 4 of the Pre-Pause phase, as follows:

- December 13, 2021: Pre-storm sampling at core and reference stations was conducted the day prior to the storm in conjunction with the routine weekly monitoring.
- December 14, 2021: The storm produced approximately 1 inch of rainfall at SIYB. Two major outfalls that discharge into SIYB (Figure 2-2) were sampled during the storm.
- December 15, 2021: Post-storm sampling at core and reference stations was conducted the day following the storm, during a similar tidal height and stage (outgoing tide) as the pre-storm sampling (Figure 2-4).

The stations sampled during each week of the Monitoring Program are outlined in Table 2-3.

**Table 2-3.**  
**Stations Sampled During Each Monitoring Event**

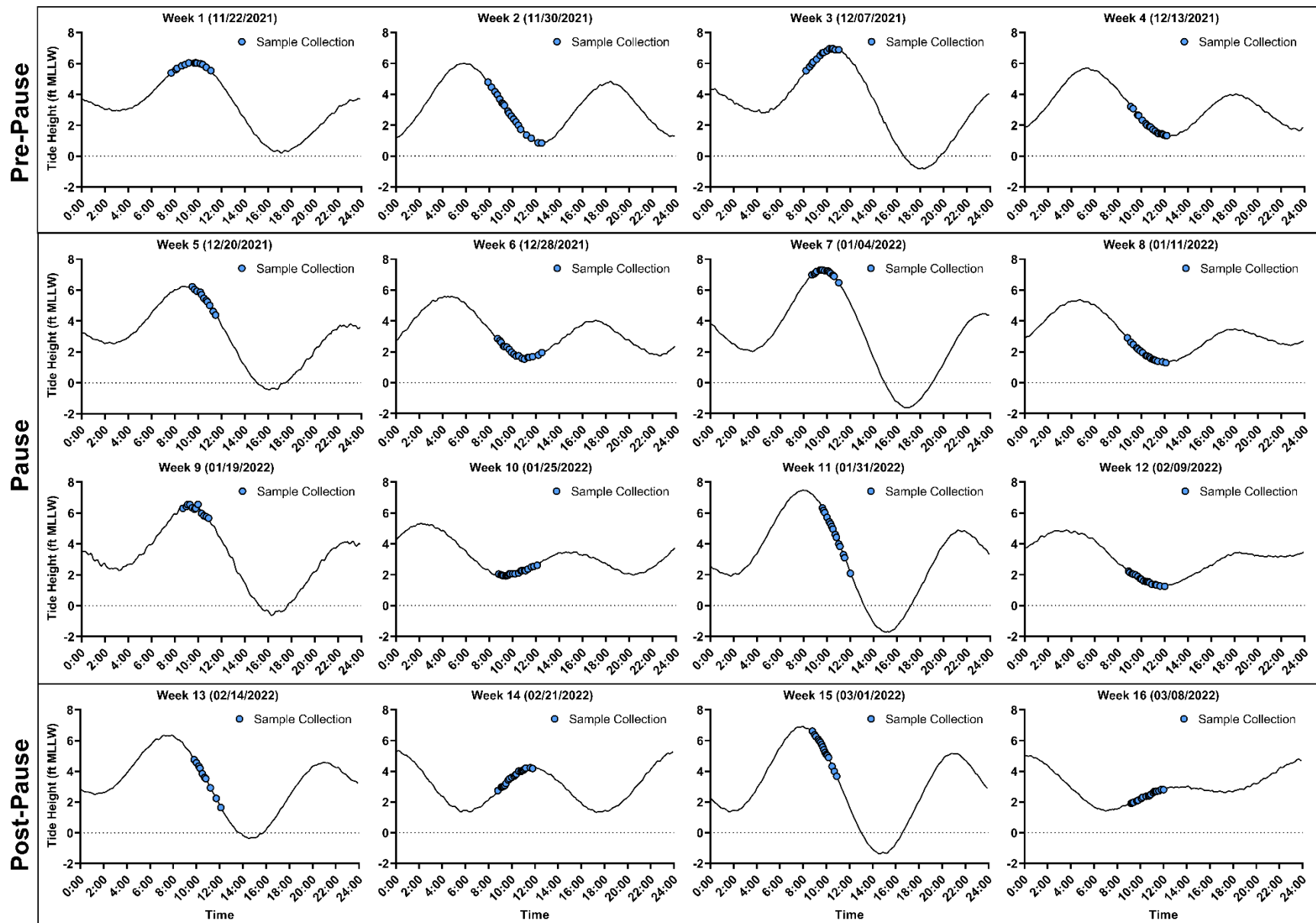
Stations Sampled	Sampling Date															
	Pre-Pause (11/22/21–12/18/21)				Pause (12/19/21–2/9/22)								Post-Pause (2/10/22–3/8/22)			
	W1 11/22	W2 11/30	W3 12/7	W4 12/13	W5 12/20	W6 12/28	W7 1/4	W8 1/11	W9 1/19	W10 1/25	W11 1/31	W12 2/9	W13 2/14	W14 2/21	W15 3/1	W16 3/8
Core + Ref	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Enhanced		X		X		X		X		X		X		X		X
Storm <sup>a</sup>				X												

Notes:

"X" indicates samples were collected; W = week; core stations include Stations C-1 through C-13; enhanced stations include Stations E-14 through E-20; reference (Ref) stations include Stations C-REF-1 and C-REF-2 (Table 2-1 and Figure 2-1).

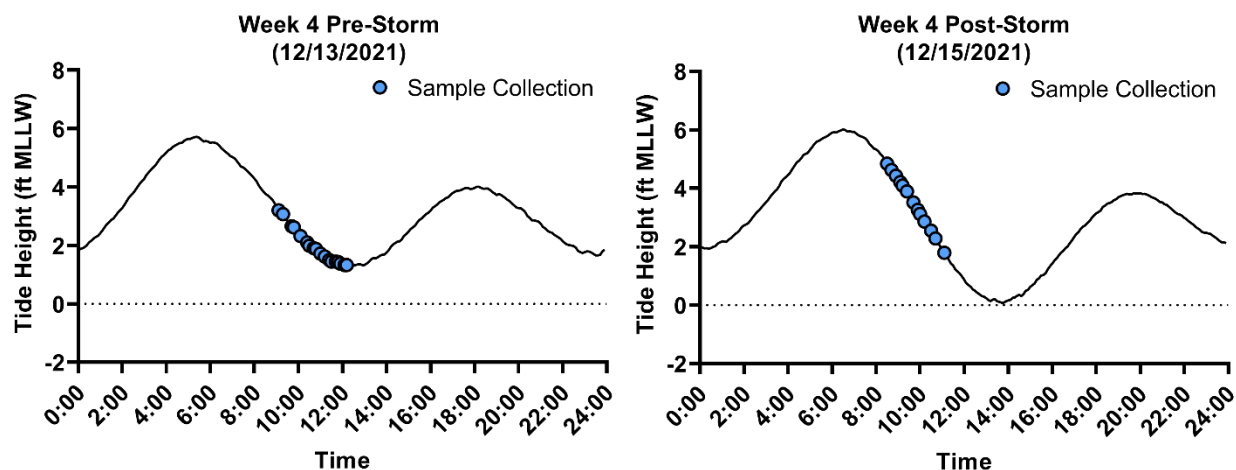
a. Pre-storm receiving water samples were collected on 12/13/21 during routine weekly sampling. Outfall samples were collected during the storm on 12/14/21. Post-storm receiving water samples were collected on 12/15/21.





**Figure 2-3. Sample Collection Times Over Tidal Cycles – Weekly Monitoring**

Notes: ft = foot/feet; MLLW = mean lower low water; tide data obtained from National Oceanic and Atmospheric Administration (NOAA) San Diego Bay Station 9410170.



**Figure 2-4. Sample Collection Times Over Tidal Cycles – Storm Monitoring Event**

Notes: ft = foot/feet; MLLW = mean lower low water; tide data obtained from National Oceanic and Atmospheric Administration (NOAA) San Diego Bay Station 9410170.

## 2.2.3 Sample Collection

Samples were collected by two field teams; one team sampled directly from the docks, and one team sampled from a vessel<sup>4</sup>, each using the same sampling techniques. Samples were collected starting at the reference stations and continuing from the mouth of the basin toward the head of the basin. Samples were collected in the same order during each monitoring event to randomize the effects of tides over the course of the 16-week Monitoring Program. The specific sample collection order for each field team is identified in Table 2-1 (Section 2.2.1).

Upon arrival at each monitoring station, field teams measured the temperature and salinity of the surface water (i.e., 1 meter below the surface) using calibrated YSI ProDSS water quality meters. Water clarity was also estimated using Secchi disks. In addition, field observations were made at each monitoring station for hull cleaning activities or other conditions/activities that may impact water quality (if observed). Field data sheets, including field measurements and detailed field notes, are in Appendix B.

During each monitoring event, discrete surface water samples (i.e., 1 meter below the surface) were collected at each monitoring station using a Niskin bottle deployed from the dock or vessel<sup>4</sup> in accordance with Surface Water Ambient Monitoring Program (SWAMP)-defined “Clean Hands/Dirty Hands” techniques (California State Water Resources Control Board [SWRCB], 2014) and the project-specific and approved SAP/QAPP (Wood, 2021a). As described in Section 2.2.2, core and reference monitoring stations were sampled weekly and enhanced monitoring stations were sampled biweekly for the duration of the Monitoring Program. Storm event sampling included collection of grab samples from two outfalls during the storm, as well as collection of surface water samples from the core monitoring and reference stations after the storm.

Upon collection, water samples were immediately field-filtered through a 0.45-micrometer ( $\mu\text{m}$ ) polyethersulfone (PES) membrane filter using a bottle-top vacuum filtration system and

<sup>4</sup> The vessel used for monitoring is coated with a non-biocide hull paint (i.e., does not contain copper or other biocides).

transferred to labeled containers for analysis of dissolved copper. For the post-storm monitoring event, separate unfiltered samples were collected for analysis of total copper (outfalls and receiving water) and total suspended solids (TSS; outfalls only).

All water samples were logged on chain-of-custody (COC) forms and placed in coolers on ice. Samples were stored on ice and in the dark until delivered to Weck Laboratories (Weck) the following day for analysis. Samples for copper analyses were preserved upon arrival to Weck.

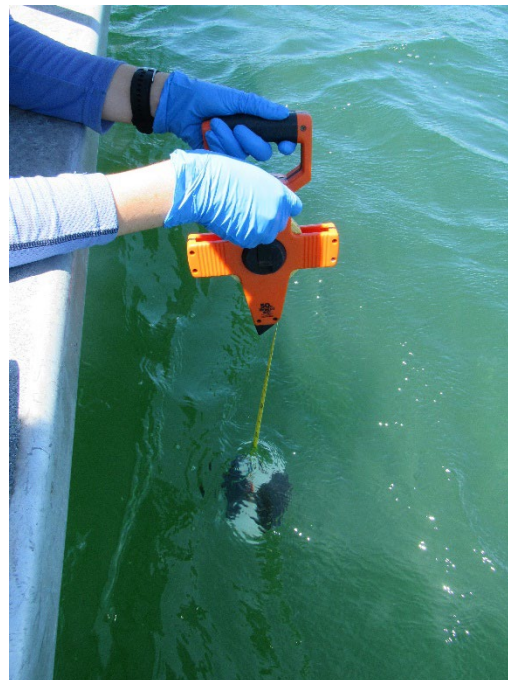
Field photographs from weekly water quality monitoring and storm monitoring events are included in Figures 2-5 and 2-6, respectively.

#### **2.2.4 Equipment Decontamination and Cleaning**

The Niskin bottles (one per sampling team) were cleaned using Alconox and thoroughly rinsed with deionized water prior to each monitoring event. Upon deployment at each monitoring station, the Niskin bottles were rinsed thoroughly with site water and allowed to equilibrate at the sampling depth (i.e., 1 meter below the surface) for at least one minute prior to sample collection. After collection, water samples were transferred from the Niskin bottles to laboratory-certified, contaminant-free sample bottles using “Clean Hands/Dirty Hands” techniques (SWRCB, 2014). In between sample collection at each monitoring station, each Niskin bottle was stored in a plastic-lined tub.



**Photo A.** To ensure compliance with the Ordinance, Port staff conducted frequent inspections throughout SIYB during the Pause to look for hull cleaning activity and document visual observations of the water in the basin.



**Photo B.** Upon arrival at each monitoring station, water clarity was estimated using a Secchi disk (pictured above). In addition, temperature and salinity measurements were taken using a YSI ProDSS water quality meter.



**Photo C.** Surface water samples were collected using a Niskin bottle and following clean sampling techniques.



**Photo D.** Water samples were filtered in the field immediately after collection for analysis of dissolved copper.

**Figure 2-5. Weekly Water Quality Monitoring Field Photographs**





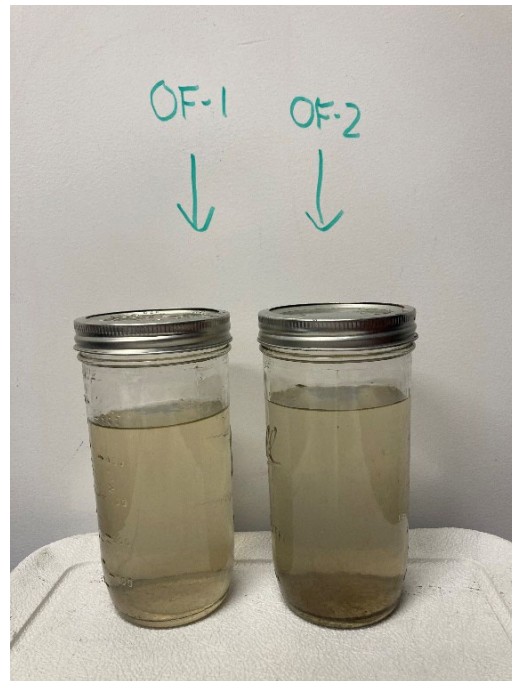
**Photo A.** The storm event sampled during Week 4 produced approximately 1 inch of rainfall on December 14, 2021. Stormwater runoff from OF-1 at the time of sampling is depicted above.



**Photo B.** A large plume of particulates was visible in SIYB at the OF-1 discharge point.



**Photo C.** Stormwater grab samples were collected from two outfalls (OF-1 depicted in Photo A and OF-2 depicted in Photo C above).



**Photo D.** Stormwater samples were analyzed for dissolved copper (field-filtered), total copper, and total suspended solids.

**Figure 2-6. Storm Monitoring Event Field Photographs**



## 2.2.5 Analytical Methods

Field measurements of temperature and salinity were taken at each station during each monitoring event. After each monitoring event, surface water samples were transported to the analytical laboratory (Weck) via courier under customary COC protocols. All weekly surface water samples were analyzed for dissolved copper. For the post-storm monitoring event, samples were also analyzed for total copper (outfalls and receiving water) and TSS (outfalls) to account for particulate copper that may be present in stormwater discharge. All chemical analyses were conducted by Weck in accordance with the certified United States Environmental Protection Agency (USEPA) analytical methods or Standard Methods (SM) listed in Table 2-4. The laboratory analytical methods and target method detection and reporting limits are specified in Table 2-4. Actual final method detection and reporting limits are provided in the chemistry laboratory reports in Appendix C.

**Table 2-4.**  
**Analytical Methods and Target Method Detection and Reporting Limits**

Water Quality Measurement	Method	Method Detection Limit	Reporting Limit	Instrument Sensitivity
Salinity	Field-Measured (YSI ProDSS)	N/A	N/A	± 0.1 ppt
Temperature	Field-Measured (YSI ProDSS)	N/A	N/A	± 0.1 °C
Total Copper (seawater)	USEPA 1640	0.0038 µg/L	0.010 µg/L	N/A
Dissolved Copper (seawater)	USEPA 1640	0.0038 µg/L	0.010 µg/L	N/A
Total Copper (stormwater)	USEPA 200.8	0.13 µg/L	0.50 µg/L	N/A
Dissolved Copper (stormwater)	USEPA 200.8	0.13 µg/L	0.50 µg/L	N/A
Total Suspended Solids (stormwater)	SM 2540D	N/A	5 mg/L	N/A

Notes:

°C = degree(s) Celsius; µg/L = microgram(s) per liter; mg/L = milligram(s) per liter; N/A = not applicable; ppt = part(s) per thousand; SM = Standard Method; USEPA = United States Environmental Protection Agency

## 2.3 Quality Assurance and Quality Control

This section describes the QA/QC procedures for all field activities and laboratory analyses. Specific QA/QC procedures are provided in detail in the approved project-specific SAP/QAPP (Wood, 2021a).

### 2.3.1 Field QA/QC

Strict QA/QC procedures were followed throughout the Monitoring Program, from mobilization through delivery of samples to the analytical laboratory to minimize the possibility of compromising sample integrity. The sample collection team was trained in and followed field sampling standard operating procedures (SOPs), as described in the project-specific SAP and QAPP (Wood, 2021a). Additionally, Port-approved field QA logs were used during the first monitoring event, and

periodically thereafter at a subset of monitoring stations, to ensure that all field collection procedures were consistent between monitoring events and among stations, and all required field data were recorded properly (see Appendix B).

Field water quality meters were checked and calibrated in accordance with the manufacturer's specifications prior to each monitoring event. During sample collection, field team members wore powder-free nitrile gloves and avoided contamination of samples at all times by using the SWAMP "Clean Hands/Dirty Hands" techniques. All samples were collected in laboratory-supplied, laboratory-certified, contaminant-free sample bottles.

As required by SWAMP protocols, a co-located field duplicate (hereafter referred to as a field duplicate) was collected at one randomly selected monitoring station during each monitoring event. Each field duplicate sample consisted of a second sample collected for analysis to assess variability in sampling procedures, as well as ambient conditions. The field duplicate samples were analyzed for the same suite of parameters used for the primary test samples. In addition to the field duplicate samples, one equipment rinse blank<sup>5</sup> and one field blank were collected for each monitoring event.

Customary COC procedures were used for all samples throughout the collection, transport, and analytical processes. Completed COC forms are provided in the laboratory reports in Appendix C. The project-specific SAP/QAPP (Wood, 2021a) provides more information regarding COC procedures.

### **2.3.2 Laboratory Analytical QA/QC**

The analytical laboratory (Weck) is accredited by the National Environmental Laboratory Accreditation Program (NELAP; Certificates #4047-008 and #4047-009) and/or California Environmental Laboratory Accreditation Program (ELAP; Certificate #1132) for the specific analytical methods that were performed at the time the samples were analyzed. The QA objectives for chemical analyses conducted by Weck are provided in their laboratory QA manual and in the SAP/QAPP (Wood, 2021a). Results of all laboratory QA/QC analyses are provided in the laboratory reports in Appendix C. Any QC samples that failed to meet the specified QA/QC criteria in the methodology or QAPP were identified, and the corresponding data were appropriately qualified in the final laboratory reports. A QA/QC summary discussing any QA/QC issues encountered and associated corrective actions is included in Section 3.5 of this report.

## **2.4 Data Review, Management, and Analysis**

Field and laboratory data were reviewed for completeness and accuracy prior to data analysis and reporting and were stored in a project-specific Excel database, as described further below.

### **2.4.1 Data Review**

After each monitoring event, field data sheets were checked for completeness and accuracy by the field staff and field project manager (PM). In addition, all sample COC forms were checked

---

<sup>5</sup> Because two Niskin bottles were required (one for each sampling team), the equipment rinse blanks were collected from one Niskin bottle per week, alternating between bottles over the 16-week Monitoring Program.

against sample labels prior to sample transport to the analytical laboratory. In the analytical laboratory, technicians documented sample receipt in laboratory logbooks, and samples were logged into the electronic Laboratory Information Management System (LIMS) for sample tracking purposes to ensure that holding times were met and samples were efficiently analyzed. Logbooks were maintained for each instrument to provide hardcopy documentation of analytical runs, and data generated by each instrument were directly uploaded to the LIMS for data review and processing. Data validation was performed within the LIMS and included application of both performance-based and project-specific QC criteria to reject or accept specific data. Data for laboratory analyses were entered directly onto data sheets. The technician who generated the data had primary responsibility for the accuracy and completeness of the data.

All data were subsequently reviewed and verified by each laboratory section supervisor and released to the laboratory PM to determine whether data quality objectives had been met for final reporting, and whether appropriate corrective actions had been taken when necessary. Any necessary corrective actions were coordinated with the laboratory project manager, the laboratory QA/QC director, and the Wood PM for resolution.

## **2.4.2 Data Management**

After completion of the data review by the analytical laboratory PM, results were forwarded to Wood in Adobe Portable Document Format (PDF) for internal review by the Wood Analytical QA Officer. Analytical reports received from the laboratory for each monitoring event are included in Appendix C. All reviewed analytical data were compiled into an Excel database and uploaded into the California Environmental Data Exchange Network (CEDEN).

## **2.4.3 Data Analysis**

Following internal QA/QC review of the analytical data by Wood's QA Officer, raw data were summarized in data tables and figures presented in Section 3 and Appendix D. All data included in summary tables and figures were compared with raw laboratory reports to ensure completeness and accuracy.

This 16-week Monitoring Program was designed to measure and compare dissolved copper concentrations before, during, and after the Hull Cleaning Pause. Data analysis included a comparison of the dissolved copper concentrations during each phase of the Monitoring Program for (1) the basin as a whole (i.e., basin-wide averages), (2) individual monitoring stations, and (3) inner, middle, and outer basin regions. Basin regions were chosen based on the results of the 2018 Time Series Study (Amec Foster Wheeler Environment & Infrastructure, Inc. [Amec Foster Wheeler], 2018), which suggested that tides affect dissolved copper levels to varying degrees in the inner, middle, and outer basin. Figure 2-7 shows how monitoring stations were grouped for analyses by region. Note that lines delineating each region are arbitrary and are intended only to outline station groupings.



Figure 2-7. Basin Region Designations for Each Monitoring Station

## 3.0 RESULTS AND DISCUSSION

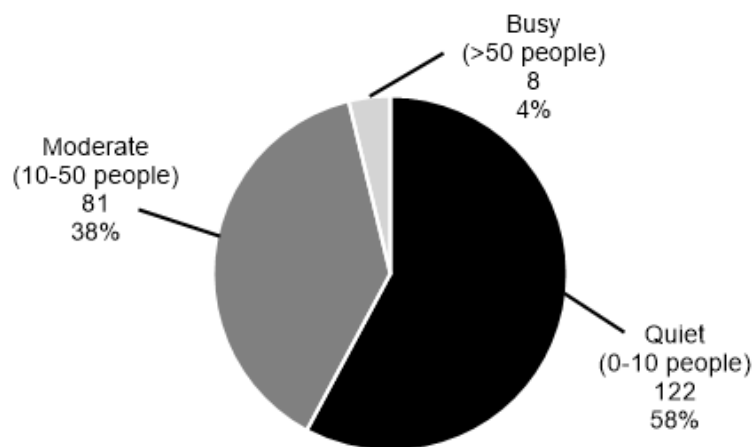
This section discusses results from the Monitoring Program, including dock inspections, weekly water quality monitoring, and storm monitoring event results.

### 3.1 Hull Cleaning Inspections and Visual Observations

Daily hull cleaning inspections were performed during the eight-week Hull Cleaning Pause period (December 19, 2021 through February 9, 2022), except for Christmas Day, New Year's Day, and January 15, 2022, when a tsunami warning was issued. A total of 217 inspections were performed in SIYB, including all SIYB marinas, yacht clubs, and the Port's transient dock.

#### 3.1.1 General Facility and Water Quality Conditions

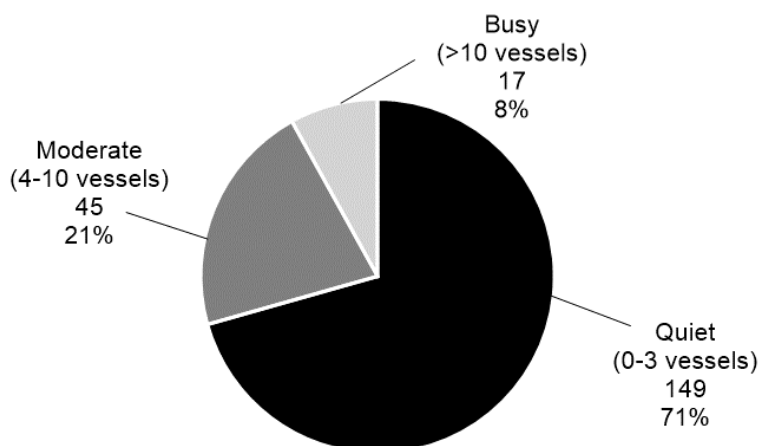
General facility conditions were recorded, including general facility activity, topside maintenance activity, weather conditions, and general water quality conditions.<sup>6</sup> General facility activity was categorized as quiet (10 or fewer people), moderate (10 to 50 people), or busy (more than 50 people) based on the number of people observed throughout the docks at a facility at the time of inspection. Throughout the Hull Cleaning Pause, general facility activity varied with 122 (58%) inspections noting quiet conditions, 81 (38%) inspections noting moderate conditions, and 8 (4%) inspections noting busy conditions (Figure 3-1). Dates and locations for the eight inspections defined as "busy" are detailed in Table 3-1, along with other visual observations.



**Figure 3-1. General Facility Activity During Hull Cleaning Pause Inspections**

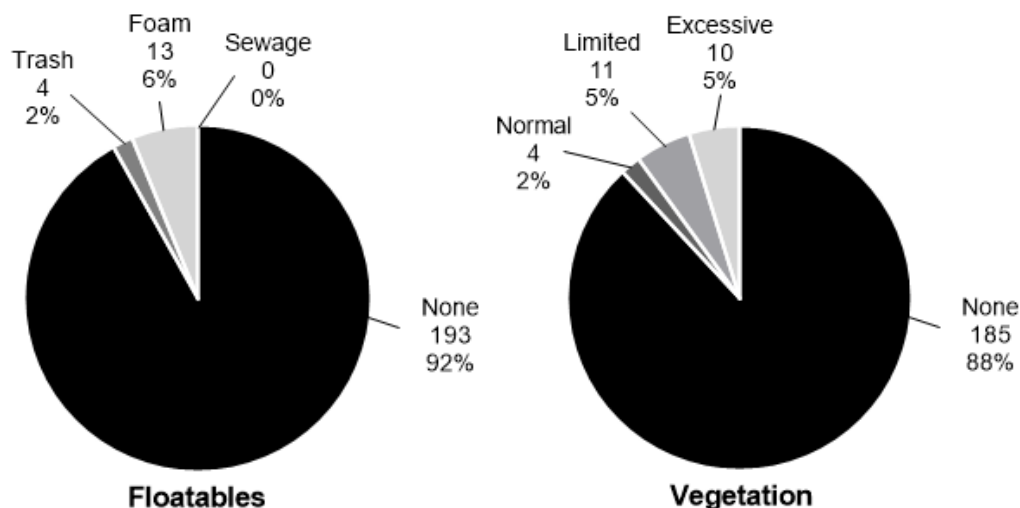
The presence of topside maintenance was also evaluated during the Hull Cleaning Pause. Topside maintenance activity was categorized as quiet (0 to 3 vessels), moderate (4 to 10 vessels), or busy (more than 10 vessels) based on the number of vessels where topside maintenance was observed. A total of 149 (71%) inspections noted quiet maintenance, 45 (21%) inspections noted moderate maintenance, and 17 (8%) noted busy maintenance activities (Figure 3-2). Dates and locations for the 17 inspections defined as "busy" are detailed in Table 3-1, along with other visual observations.

<sup>6</sup> It should be noted that visual observations of general facility activity and topside maintenance were not recorded for six of the 217 inspections and therefore are not included in the following calculations.



**Figure 3-2. Topside Maintenance Activity During Hull Cleaning Pause Inspections**

Weather conditions were recorded at the time of inspections. A total of 14 inspections noted rainfall observed within the prior 72 hours, as detailed in Table 3-1. General water quality conditions within the facilities at the time of inspection were also recorded, including noticeable floatables, vegetation, and odors.<sup>7</sup> Of the 210 total visual observations recorded for floatables, no inspections noted visible sewage, four (2%) noted visible trash, and 13 (6%) noted visible foam within the facilities at the time of inspection (Figure 3-3). No visible floatables were observed at the time of the remaining 193 (92%) inspections. Of the 210 total visual observations recorded for vegetation, 10 (5%) noted excessive vegetation, 11 (5%) noted limited vegetation, and four (2%) noted normal vegetation within the facility at the time of inspection (Figure 3-3). No vegetation was observed during the remaining 185 (88%) inspections.



**Figure 3-3. Floatables and Vegetation Observed During Hull Cleaning Pause Inspections**

<sup>7</sup> It should be noted that visual observations of general water quality conditions were not recorded for seven of the 217 inspections and therefore are not included in the following calculations.



**Table 3-1.**  
**Summary of Significant Visual Observations During the Hull Cleaning Pause**

Inspection Date & Time		Location	Marina Activity	Topside Maintenance	Floatables	Vegetation
12/19/2021	11:00	Kona Kai Marina	Moderate (10-50 people)	Quiet (0-3 vessels)	None	<b>Limited</b>
12/19/2021	10:00	Silver Gate Yacht Club	Quiet (0-10 people)	Quiet (0-3 vessels)	None	<b>Limited</b>
12/20/2021	11:45	San Diego Yacht Club	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	<b>Limited</b>
12/20/2021	8:00	Kona Kai Marina	Moderate (10-50 people)	Moderate (4-10 vessels)	<b>Foam</b>	None
12/20/2021	9:30	Shelter Island Marina	Moderate (10-50 people)	Moderate (4-10 vessels)	<b>Trash</b>	None
12/21/2021	10:00	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
12/21/2021	10:45	Silver Gate Yacht Club	Quiet (0-10 people)	Quiet (0-3 vessels)	None	<b>Excessive</b>
12/21/2021	12:00	Half Moon Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	None	None
12/22/2021	10:55	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	<b>Limited</b>
12/23/2021	8:00	Southwestern Yacht Club	Quiet (0-10 people)	Quiet (0-3 vessels)	<b>Foam</b>	None
12/23/2021	11:00	Bay Club Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	None	<b>Limited</b>
12/23/2021	10:30	Kona Kai Marina	Moderate (10-50 people)	Moderate (4-10 vessels)	None	<b>Limited</b>
12/24/2021	10:20	Half Moon Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	None	<b>Limited</b>
12/24/2021	8:00	Kona Kai Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	<b>Foam</b>	<b>Excessive</b>
12/24/2021	10:00	Bay Club Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	<b>Foam</b>	<b>Excessive</b>
12/24/2021	11:00	San Diego Yacht Club	Moderate (10-50 people)	Quiet (0-3 vessels)	None	<b>Excessive</b>
12/26/2021	13:30	Shelter Island Marina	<b>Busy (&gt;50 people)</b>	Quiet (0-3 vessels)	None	None
12/26/2021	12:15	Kona Kai Marina	Moderate (10-50 people)	Quiet (0-3 vessels)	None	<b>Limited</b>
12/27/2021	9:00	Kona Kai Marina	Quiet (0-10 people)	Moderate (4-10 vessels)	<b>Foam</b>	None
12/30/2021	12:30	Southwestern Yacht Club	Moderate (10-50 people)	Moderate (4-10 vessels)	None	<b>Limited</b>
12/31/2021	9:30	San Diego Yacht Club	<b>Busy (&gt;50 people)</b>	<b>Busy (&gt;10 vessels)</b>	<b>Foam</b>	<b>Excessive</b>
12/31/2021	8:15	Gold Coast Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	None	<b>Limited</b>
1/3/2022	9:00	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
1/3/2022	11:30	Half Moon Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	None	<b>Excessive</b>
1/3/2022	9:00	Shelter Island Marina	<b>Busy (&gt;50 people)</b>	Quiet (0-3 vessels)	None	None

Notes:

Shaded rows indicate inspections in which rain was observed in the last 72 hours.

**Bold and Italicized rows** indicate significant visual observations observed at the time of inspection.

**Table 3-1. (continued)**  
**Summary of Significant Visual Observations During the Hull Cleaning Pause**

Inspection Date & Time		Location	Marina Activity	Topside Maintenance	Floatables	Vegetation
1/4/2022	8:30	Kona Kai Marina	Moderate (10-50 people)	Moderate (4-10 vessels)	<b>Foam</b>	Normal
1/6/2022	8:15	San Diego Yacht Club	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
1/6/2022	10:00	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
1/7/2022	11:15	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
1/7/2022	9:00	Southwestern Yacht Club	Quiet (0-10 people)	Quiet (0-3 vessels)	None	<b>Excessive</b>
1/16/2022	9:00	San Diego Yacht Club	<b>Busy (&gt;50 people)</b>	Quiet (0-3 vessels)	None	None
1/17/2022	9:45	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	<b>Trash</b>	Normal
1/17/2022	10:45	Shelter Island Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
1/17/2022	NR	Bay Club Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	<b>Trash</b>	Normal
1/18/2022	11:15	Kona Kai Marina	<b>Busy (&gt;50 people)</b>	<b>Busy (&gt;10 vessels)</b>	<b>Trash</b>	<b>Excessive</b>
1/19/2022	11:25	San Diego Yacht Club	<b>Busy (&gt;50 people)</b>	<b>Busy (&gt;10 vessels)</b>	None	None
1/21/2022	10:00	San Diego Yacht Club	Moderate (10-50 people)	Moderate (4-10 vessels)	<b>Foam</b>	Normal
1/26/2022	13:09	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
1/27/2022	10:00	San Diego Yacht Club	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
1/28/2022	10:15	Silver Gate Yacht Club	Quiet (0-10 people)	Quiet (0-3 vessels)	<b>Foam</b>	<b>Excessive</b>
1/28/2022	8:50	Kona Kai Marina	Moderate (10-50 people)	Moderate (4-10 vessels)	<b>Foam</b>	<b>Excessive</b>
1/30/2022	8:30	San Diego Yacht Club	<b>Busy (&gt;50 people)</b>	Quiet (0-3 vessels)	None	None
2/4/2022	12:40	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
2/4/2022	12:00	Shelter Island Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
2/5/2022	9:15	San Diego Yacht Club	<b>Busy (&gt;50 people)</b>	Quiet (0-3 vessels)	None	None
2/5/2022	10:45	Southwestern Yacht Club	Moderate (10-50 people)	Quiet (0-3 vessels)	<b>Foam</b>	None
2/6/2022	10:45	Silver Gate Yacht Club	Quiet (0-10 people)	Quiet (0-3 vessels)	<b>Foam</b>	None
2/6/2022	10:01	Shelter Island Marina	Quiet (0-10 people)	Quiet (0-3 vessels)	<b>Foam</b>	<b>Limited</b>
2/7/2022	12:35	Kona Kai Marina	Moderate (10-50 people)	<b>Busy (&gt;10 vessels)</b>	None	None
<b>Total Significant Observations</b>		<b>49</b>	<b>8</b>	<b>17</b>	<b>17</b>	<b>21</b>

Notes:

Shaded rows indicate inspections in which rain was observed in the last 72 hours.

**Bold and italicized rows** indicate significant visual observations observed at the time of inspection.

NR = not recorded

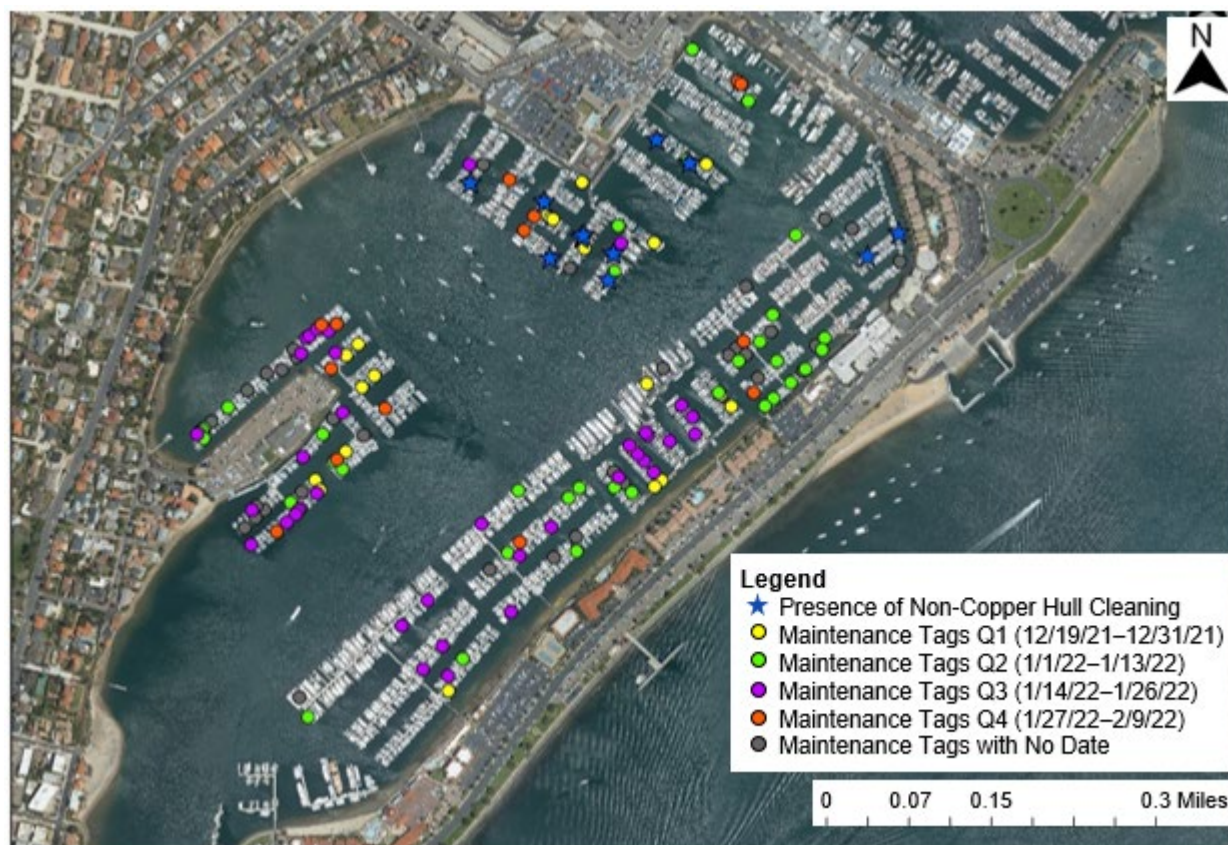


### 3.1.2 Diver Activity

During hull cleaning inspections, diver activity was recorded by reviewing check-in records, observing divers in the field, and recording the information from diver tags left on individual vessel slips after dive activity. Throughout the eight-week Hull Cleaning Pause, 342 instances were recorded of observed diver activity to conduct non-cleaning types of maintenance and/or to replace zinc anodes (Table 3-2). Figure 3-4 identifies the locations of all recorded dive tags during each quarter (Q1–Q4) of the Hull Cleaning Pause along with all confirmed non-copper hull cleanings.

**Table 3-2.**  
**Instances of Observed Diver Activity During the Hull Cleaning Pause**

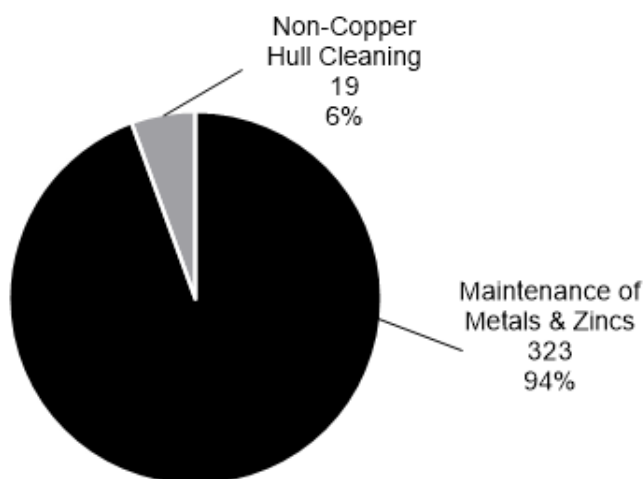
Source of Diver Activity Observation	Number of Observed Instances
Divers Encountered in the Field	50
Divers Checked In	68
Diver Tags Observed	224
<b>Total Observed Instances</b>	<b>342</b>



**Figure 3-4. Map of Non-Copper Hull Cleanings and Diver Tags Observed During the Hull Cleaning Pause**

Note: Each maintenance tag point symbolizes a single slip. Slips in which multiple dive tags were observed throughout the Hull Cleaning Pause are symbolized by the maintenance tag with the latest date.

In all instances in which diver activity was observed, efforts were made to ensure that the cleaning of hulls with copper-based AFPs was not occurring. These efforts included reviewing diver check-in records at a facility, corresponding with divers in the field, and documenting visual hull fouling observations. Of the 342 total instances of dive activity, 19 instances (6%) were confirmed cleaning of vessels with Port-verified non-copper paints. The remainder of observed diver activity (323; 94%) were confirmed to include routine maintenance activities only, such as replacing zincs and metals (Figure 3-5). No cleaning of vessel hulls coated with copper-based AFPs was observed during any inspection conducted during the Hull Cleaning Pause, and as a result, no enforcement actions were taken.



**Figure 3-5. Characterization of Observed Diver Activity During the Hull Cleaning Pause**

A total of 11 vessels with Port-verified, non-copper paints were observed to have been cleaned during the Hull Cleaning Pause. Two of the 11 vessels painted with non-copper paints were cleaned on three separate occasions, four of the 11 vessels painted with non-copper paints were cleaned on two separate occasions, and the remaining five vessels painted with non-copper paints were cleaned once for a total of 19 non-copper hull cleanings (Table 3-3).

**Table 3-3.**  
**Observed Instances of Non-Copper Hull Cleaning During the Hull Cleaning Pause**

Date of Cleaning <sup>a</sup>	Location	Source of Observation
12/22/2021	San Diego Yacht Club	Diver Encountered in the Field
12/23/2021	San Diego Yacht Club	Observed Tag
12/28/2021	San Diego Yacht Club	Diver Encountered in the Field
12/28/2021	San Diego Yacht Club	Diver Encountered in the Field
12/28/2021	San Diego Yacht Club	Diver Encountered in the Field
12/30/2021	San Diego Yacht Club	Observed Tag
12/31/2021	San Diego Yacht Club	Diver Encountered in the Field
12/31/2021	San Diego Yacht Club	Diver Checked In
1/3/2022	Half Moon Marina	Diver Encountered in the Field
1/6/2022	San Diego Yacht Club	Diver Checked In
1/7/2022	San Diego Yacht Club	Diver Encountered in the Field
1/7/2022	San Diego Yacht Club	Observed Tag
1/17/2022	Half Moon Marina	Diver Encountered in the Field
1/19/2022	San Diego Yacht Club	Diver Checked In
1/24/2022	San Diego Yacht Club	Observed Tag
1/25/2022	San Diego Yacht Club	Observed Tag
2/1/2022	San Diego Yacht Club	Observed Tag
2/1/2022	San Diego Yacht Club	Observed Tag
2/4/2022	San Diego Yacht Club	Observed Tag

Notes:

- a. A total of 11 vessels with approved non-copper paint were observed to have been cleaned during the Pause. Two of the 11 vessels were cleaned on three separate occasions, four of the 11 vessels were cleaned on two separate occasions, and the remaining five vessels were cleaned once for a total of 19 non-copper hull cleanings.

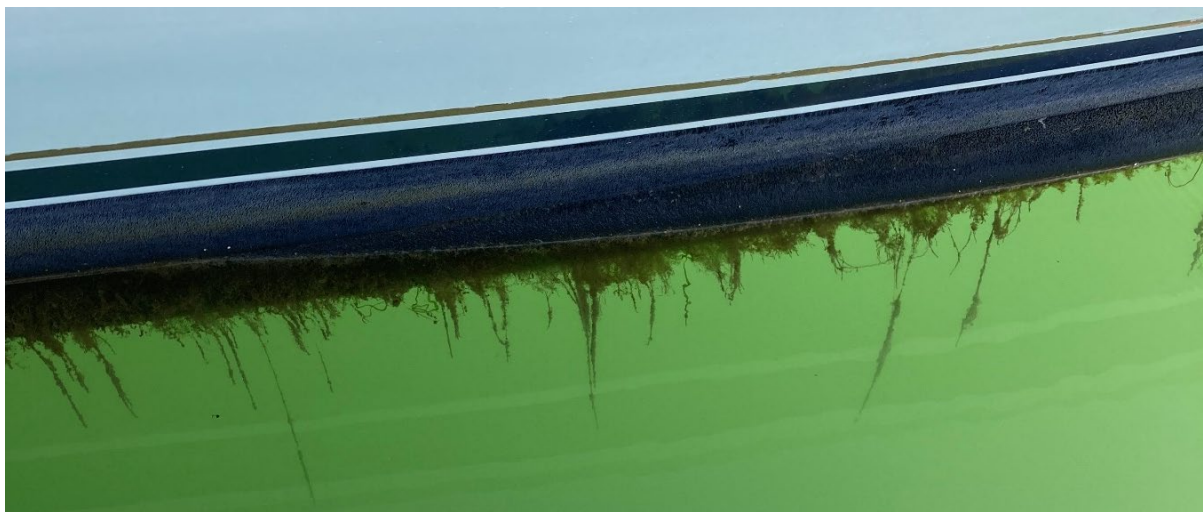
Inspection staff observed and documented the presence of fouling on vessels with copper-based AFPs during the Hull Cleaning Pause. Overall, general vessel observations suggested an obvious visual increase in fouling over time, confirming hull cleaning was not being performed on a wide-scale basis during the approximately eight-week Hull Cleaning Pause (Figure 3-6).



**Figure 3-6. Photos of Fouling on Vessel Hulls During the Hull Cleaning Pause**



**February 9, 2022 (Last Day of Hull Cleaning Pause)**



**Figure 3-6 (continued). Photos of Fouling on Vessel Hulls During the Hull Cleaning Pause**

## 3.2 Weekly Water Quality Monitoring

Weekly water quality monitoring events were conducted in SIYB for four weeks leading up to the Hull Cleaning Pause, eight weeks during the Pause, and four weeks following the Pause. Each monitoring event included collection of field water quality measurements and surface water samples for dissolved copper analysis. As discussed in Section 2.2.2, core monitoring stations and reference stations were sampled every week, while enhanced monitoring stations were sampled biweekly. The following sections present results and discussion related to the weekly water quality monitoring.

### 3.2.1 Weekly Physical Water Quality Parameters

Upon arrival at each monitoring station during weekly monitoring events, the field teams measured surface water temperature and salinity at a depth of 1 meter using a YSI ProDSS meter, and water clarity was evaluated using a Secchi disk. Weather and surface water conditions were also documented on field data sheets.

Ranges of temperature, salinity, and water clarity measured throughout SIYB during each weekly monitoring event are summarized in Table 3-4. The average water quality parameters for the two reference stations are also provided in Table 3-4 for comparison. Daily rainfall that occurred during the Monitoring Program is also presented in Figure 3-7. Raw field water quality data for all stations and monitoring events are provided on field data sheets in Appendix B.

Temperature: Surface water temperature varied slightly throughout the basin and over time during the Monitoring Program. During a given monitoring event, temperature varied by 1.5 degrees Celsius (°C) or less across all monitoring stations within SIYB. In general, temperatures were coolest at the reference stations and mouth of SIYB and increased moving toward the head of the basin, where the water depths are shallower. Over the course of the 16-week Monitoring Program, temperatures generally decreased over the first seven weeks of the Monitoring Program and then began to warm over the subsequent nine weeks, ranging from 14.2 to 17.5°C across all stations and monitoring events.

Salinity: Surface salinity was relatively consistent across all monitoring stations throughout the Monitoring Program, ranging from 32.9 to 34.4 parts per thousand (ppt). The average variation in salinity in SIYB for a given monitoring event was 0.5 ppt. Average salinity within SIYB was slightly lower during weeks following large storm events (see further discussion in Section 3.3).

Water Clarity: Based on Secchi disk measurements, the water clarity over the course of the Monitoring Program ranged from 4 to 23 feet within SIYB. Water clarity was generally highest at the reference stations (ranging from 15 to 27 feet) and decreased moving toward the head of SIYB.

**Table 3-4.**  
**Weekly Surface<sup>a</sup> Water Quality Parameters Before, During, and After Pause**

Water Quality Parameter	Metric	Sampling Date															
		Pre-Pause (11/22/21–12/18/21)				Pause (12/19/21–2/9/22)								Post-Pause (2/10/22–3/8/22)			
		W1 11/22	W2 11/30	W3 12/7	W4 12/13	W5 12/20	W6 12/28	W7 1/4	W8 1/11	W9 <sup>d</sup> 1/19	W10 1/25	W11 1/31	W12 2/9	W13 2/14	W14 2/21	W15 3/1	W16 3/8
SIYB Stations																	
Temperature (°C)	Min	16.8	16.4	16.0	15.4	14.7	14.6	14.2	14.3	15.2	15.2	15.2	14.8	15.7	15.7	14.7	15.6
	Max	17.5	17.2	16.5	15.9	15.3	15.0	14.6	15.0	15.7	15.9	15.7	15.5	16.6	16.3	16.1	16.5
Salinity (ppt)	Min	33.5	33.1	33.2	34.1	33.6	32.9	33.0	33.0	33.0	33.2	33.2	33.4	33.9	33.4	33.2	33.0
	Max	34.4	34.4	33.5	34.3	34.1	33.3	33.3	33.4	33.4	33.5	33.4	33.8	34.2	34.2	33.6	33.5
Secchi Depth (ft)	Min	5 <sup>c</sup>	4	5	4	5	7	7	5	10	7	7	6	6	5	9	7
	Max	10 <sup>c</sup>	17	14	14	18	16	20	16	20	16	16	14	15	16	23	20
Total Rainfall in Prior 72 Hours (in.) <sup>b</sup>	Sum	0	0	0	0	0.01	0.31	0	0	0.13	0	0	0	0	0	0	0.01
Total Rainfall Since Prior Monitoring Event (in.) <sup>b</sup>	Sum	0	0	0	0.11	0.99	1.13	0.35	0	0.16	0	0	0	0	0.22	0.48	0.63
Tidal Stage		Slack high	Out	In	Out	Out	Slack low	Slack high	Out	Slack high	In	Out	Out	Out	In	Out	In
Reference Stations																	
Temperature (°C)	Average	16.1	16.4	15.8	15.6	14.8	14.7	14.6	14.5	15.0	15.2	14.9	14.9	15.3	15.4	14.6	15.6
Salinity (ppt)	Average	34.2	33.1	33.4	34.2	34.1	33.4	33.5	33.3	33.6	33.5	33.4	33.7	34.0	34.2	33.2	33.0
Secchi Depth (ft)	Average	NR <sup>c</sup>	18	19	20	21	19	24	23	17	16	16	17	19	22	17	22

Notes:  
°C = degree(s) Celsius; ft = foot/feet; in. = inch(es); In = incoming; Max = maximum; Min = minimum; Out = outgoing; NOAA = National Oceanic Atmospheric Administration; NR = not recorded; ppt = part(s) per thousand; SIYB = Shelter Island Yacht Basin; Sum = summation; W = week

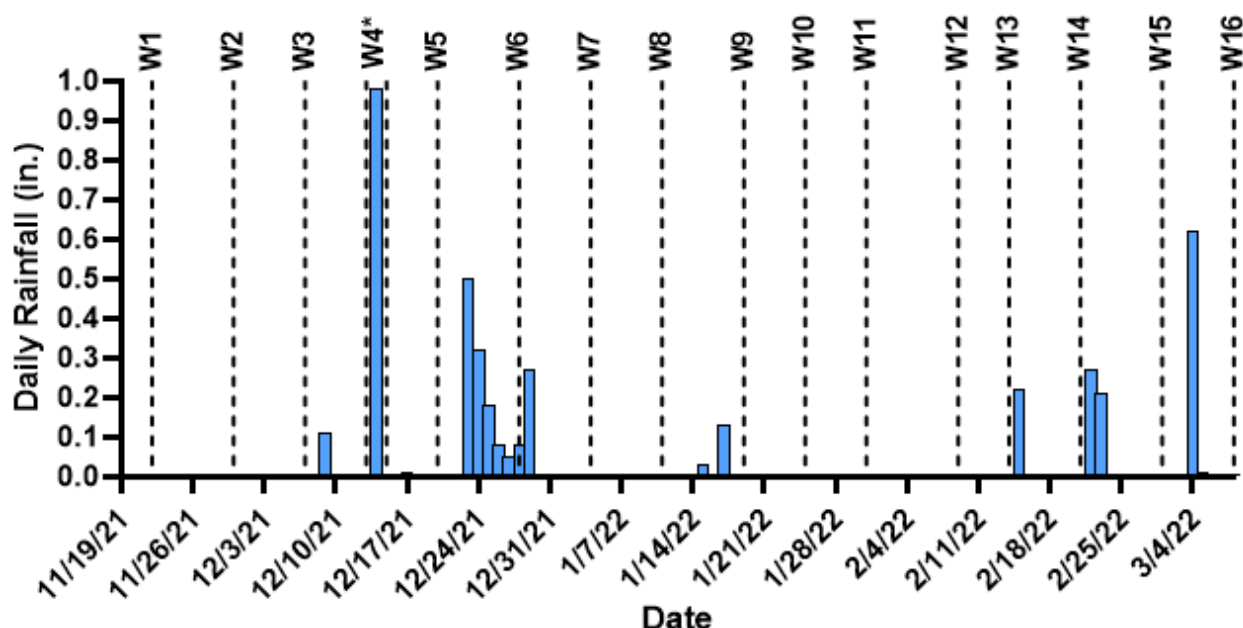
a. Field surface water quality measurements of temperature and salinity were taken at a depth of 1 meter to be consistent with the sample collection depth.

b. Rain totals obtained from NOAA Weather Station "USW00023188" located at the San Diego International Airport.

c. Secchi depth was recorded only at a subset of stations (n=5) during Week 1. Starting in Week 2, Secchi depth was recorded at all stations during each monitoring event.

d. The Week 9 monitoring event occurred four days after a tsunami event.

**Rainfall:** Over the course of the 16-week Monitoring Program, seven rain events (i.e., events generating >0.1 inch of rainfall) of varying magnitudes occurred, generating a total of approximately 4 inches of rainfall (Figure 3-7). With the exception of Weeks 6 and 9<sup>8</sup>, monitoring events were conducted more than 72 hours after rain events to minimize potential effects of stormwater on dissolved copper levels. To evaluate potential effects of stormwater discharge on dissolved copper levels in SIYB, pre- and post-storm monitoring events were conducted during Week 4 of the Monitoring Program. Results for the Week 4 storm monitoring event are presented in Section 3.3.



**Figure 3-7. Daily Rainfall Over the Course of the Monitoring Program**

Notes: Rainfall totals obtained from NOAA Weather Station "USW00023188" located at the San Diego International Airport.

Dashed lines indicate when each water quality monitoring event was conducted.

\*Week 4 monitoring included pre-storm (12/13/21) and post-storm (12/15/21) sampling (see Section 3.3).

**Tides:** As discussed in Section 2.2.2, samples were collected over a broad range of tidal cycles over the course of the Monitoring Program. The general tidal stage that was captured during each monitoring event is included in Table 3-4. Specific sample collection times are plotted on tide charts for each monitoring event in Figures 2-3 and 2-4.

**Tsunami:** The Week 9 monitoring event was conducted on January 19, 2022, four days following a tsunami event (January 15, 2022) that was generated from an underwater water volcanic eruption off the coast of Tonga in the southwestern region of the Pacific Ocean. The surging and receding tsunami waves generated strong currents in SIYB that may have disrupted typical water circulation dynamics and resuspended sediments throughout the basin. However, there were no notable changes in temperature, salinity, or water clarity measured during the monitoring event following the tsunami.

<sup>8</sup> During Week 6, a storm system brought seven consecutive days of rain (0.31 inch in the 72 hours prior to sampling). During Week 9, a small rain event (0.13 inch) occurred approximately 48 hours prior to sampling. In accordance with the SAP/QAPP, sampling events were scheduled to avoid rain events to the extent practicable while still collecting samples weekly.



## **Summary of Physical Water Quality Parameters**

Temperature, salinity, and water clarity measurements taken during the Monitoring Program were consistent with those measured historically in SIYB during the winter months (Amec Foster Wheeler, 2018; Wood, 2022b). As expected, slight decreases in average salinity were observed in SIYB following large rain events, likely resulting from freshwater mixing following stormwater discharge. No other apparent changes or anomalies in field water quality parameters were observed during the Monitoring Program, including after storm events and after the tsunami in Week 9. Further, there were no strong correlations between water quality parameters measured and dissolved copper concentrations, suggesting that temperature, salinity, and water clarity did not have substantial effects on dissolved copper concentrations in SIYB over the course of the Monitoring Program.

### **3.2.2 Weekly Dissolved Copper Monitoring**

Surface water samples were collected weekly throughout the 16-week Monitoring Program and analyzed for dissolved copper.

Weekly dissolved copper results for each individual monitoring station are provided in Table 3-5. The complete analytical chemistry laboratory reports are provided in Appendix C. A QA/QC summary of all analytical laboratory data is in Section 3.5.

In this section, the data are presented graphically in three different ways:

1. Weekly averages – Data are first summarized as weekly average dissolved copper concentrations for core monitoring stations compared with enhanced monitoring stations (Figure 3-8). Dissolved copper concentrations for both reference stations are also included for comparison. This data summary approach allows for an assessment of dissolved copper concentrations over time for the basin as a whole, as well as for comparison of results from the core and enhanced monitoring stations.
2. Individual monitoring stations – Weekly dissolved copper concentrations are then presented for each monitoring station to show variability between individual stations throughout the basin (Figure 3-9). Plots of dissolved copper concentrations for all individual monitoring stations over time (by station and by week) are also included in Appendix D.
3. Basin regions – To further examine dissolved copper measurements in different areas of SIYB, dissolved copper data were pooled and compared for three regions, including the inner (i.e., head), middle, and outer (i.e., mouth) basin (Figure 3-10). These regions were chosen based on the results of the 2018 Time Series Study (Amec Foster Wheeler, 2018), which suggested that tides affect dissolved copper levels to varying degrees in the inner, middle, and outer basin. Monitoring stations included in each region for analysis are included in Figure 2-7 (Section 2.4.3) and in Table 3-5.

Following the presentation of results and the associated discussion of each data analysis approach presented above, findings from the Monitoring Program are then summarized in Section 4.0.

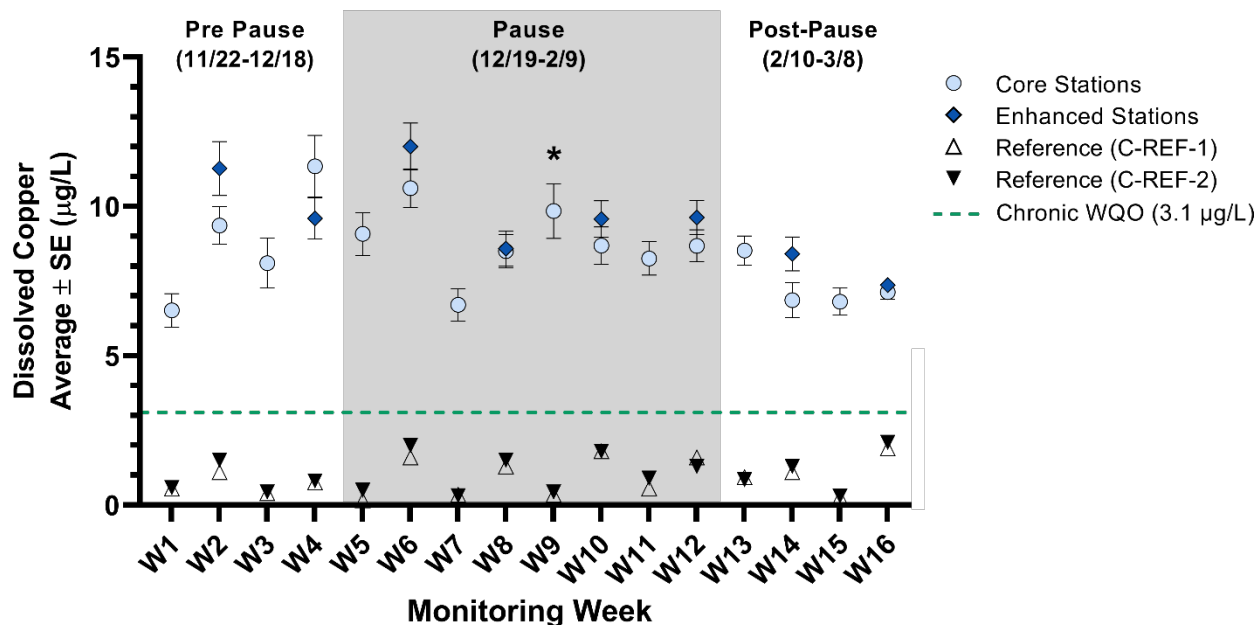
**Table 3-5.**  
**Weekly Dissolved Copper Concentrations Before, During, and After the Hull Cleaning Pause**

Basin Region	Station ID <sup>a</sup>	Dissolved Copper Concentration (µg/L)															
		Pre-Pause (11/22/21–12/18/21)				Pause (12/19/21–2/9/22)								Post-Pause (2/10/22–3/8/22)			
		W1 11/22	W2 11/30	W3 12/7	W4 12/13	W5 12/20	W6 12/28	W7 1/4	W8 1/11	W9 <sup>b</sup> 1/19	W10 1/25	W11 1/31	W12 2/9	W13 2/14	W14 2/21	W15 3/1	W16 3/8
Inner	C-1/SIYB-1	7.6	10	11	13	11	11	8.3	11	12	9.8	8.8	9.4	9.2	8.6	7.6	7.0
Inner	C-2	7.4	11	10	16	11	13	8.9	11	15	12	8.6	9.5	9.1	9.2	8.3	7.5
Inner	C-3	8.0	9.9	11	15	11	15	8.7	10	14	11	8.4	10	9.5	9.9	8.2	7.1
Inner	C-4	9.2	11	7.4	14	11	14	8.7	9.3	12	10	9.1	9.8	9.5	5.1	7.7	7.3
Inner	C-5	7.0	9.4	7.9	14	11	11	7.7	9.0	9.7	11	7.9	9.6	9.6	7.3	7.6	9.0
Middle	C-6/SIYB-2	7.0	12	10	13	11	11	7.2	8.6	9.7	9.7	11	10	9.1	7.2	7.4	7.6
Middle	C-7/SIYB-3	7.1	9.9	8.1	12	9.5	9.7	6.5	7.7	9.7	8.1	8.2	9.2	9.2	5.7	6.7	7.4
Middle	C-8/SIYB-4	5.9	9.8	6.2	9.7	8.6	9.0	5.7	8.4	11	7.5	8.7	9.7	9.8	7.7	7.8	7.9
Middle	C-9	7.9	11	11	13	8.4	8.0	6.6	9.4	8.4	6.9	11	10	9.4	6.8	6.8	6.7
Middle	C-10	7.3	10	10	11	8.1	8.9	6.4	8.3	10	7.6	8.6	8.5	8.3	7.7	6.4	7.0
Middle	C-11	5.1	7.2	8.1	7.3	9.7	9.1	6.4	7.6	7.4	7.7	8.1	7.9	8.5	6.3	6.2	5.9
Outer	C-12/SIYB-5	3.4	7.1	3.1	5.9	5.0	11	3.8	7.2	6.9	8.3	6.0	5.7	6.0	6.1	6.0	6.7
Outer	C-13/SIYB-6	1.9	3.5	1.6	3.6	2.8	7.3	2.3	3.1	2.2	3.4	3.0	3.6	3.6	1.6	1.9	5.6
Inner	E-14	--	10	--	10	--	14	--	9.8	--	9.2	--	9.6	--	9.1	--	7.5
Inner	E-15	--	13	--	10	--	14	--	10	--	11	--	10	--	9.2	--	6.6
Inner	E-16	--	13	--	9.9	--	14	--	8.9	--	11	--	9.5	--	9.2	--	7.5
Inner	E-17	--	14	--	10	--	11	--	9.0	--	10	--	12	--	9.5	--	8.0
Middle	E-18	--	11	--	12	--	12	--	9.0	--	11	--	10	--	8.8	--	7.2
Middle	E-19	--	11	--	9.3	--	9.1	--	8.0	--	7.7	--	9.5	--	7.9	--	7.7
Outer	E-20	--	6.9	--	6.0	--	10	--	5.4	--	7.2	--	6.8	--	5.2	--	7.1
Basin-wide Minimum		1.9	3.5	1.6	3.6	2.8	7.3	2.3	3.1	2.2	3.4	3.0	3.6	3.6	1.6	1.9	5.6
Basin-wide Maximum		9.2	14	11	16	11	15	8.9	11	15	12	11	12	9.8	9.9	8.3	9.0
Basin-wide Average ± Standard Error		6.5 ± 0.6	10 ± 0.5	8.1 ± 0.8	11 ± 0.7	9.1 ± 0.7	11 ± 0.5	6.7 ± 0.5	8.5 ± 0.4	9.8 ± 0.9	9.0 ± 0.5	8.3 ± 0.6	9.0 ± 0.4	8.5 ± 0.5	7.4 ± 0.5	6.8 ± 0.5	7.2 ± 0.2
Reference	C-REF-1/SIYB-REF-1	0.55	1.1	0.40	0.76	0.16	1.6	0.35	1.3	0.35	1.8	0.56	1.6	0.94	1.1	0.26	1.9
Reference	C-REF-2/SIYB-REF-2	0.58	1.5	0.44	0.81	0.50	2.0	0.32	1.5	0.44	1.8	0.90	1.3	0.85	1.3	0.30	2.1

Notes: -- = no enhanced stations sampled; µg/L = microgram(s) per liter; C- = core; E- = enhanced; ID = identifier; REF- = reference; SIYB = Shelter Island Yacht Basin; TMDL = Total Maximum Daily Load; W = week; a. A subset of the core monitoring stations and both reference stations were co-located with the stations monitored annually for TMDL compliance. These stations include both the Hull Cleaning Pause station ID and the SIYB TMDL station ID for reference. b. The Week 9 monitoring event occurred four days after a tsunami event.

### Weekly Averages: Core and Enhanced Monitoring Stations

Core monitoring and reference stations were sampled on a weekly basis over the course of the 16-week Monitoring Program. Seven additional enhanced stations were sampled on a biweekly basis to provide supplemental data at a higher resolution and in closer proximity to vessels than the stations on the outer edges of the marinas along and within the main channel. Weekly average dissolved copper concentrations for the core and enhanced stations are shown in Figure 3-8, along with results from the two reference stations.



**Figure 3-8. Weekly Average Dissolved Copper Concentrations at Core and Enhanced Monitoring Stations Over Time**

Notes: µg/L = microgram(s) per liter; REF = reference; SE = standard error; W = week; WQO = water quality objective

\* The Week 9 monitoring event occurred four days after a tsunami event.

SE bars for Week 16 are smaller than the size of the symbol and therefore are not visible.

Weekly basin-wide average copper concentrations (including core and enhanced stations) ranged from 6.5 to 11 micrograms per liter (µg/L) (Table 3-5). With the exception of Week 4 (12/13), average dissolved copper concentrations at the enhanced stations, located in the inner portions of the marinas, were higher than those at the core stations on the outer edges of marinas and in the main channel of SIYB.

While the results were somewhat variable over the 16-week Monitoring Program, an apparent pattern in the data in Figure 3-8 shows an increase in average dissolved copper concentrations at the core and enhanced stations during the Pre-Pause period and the first two weeks of the Pause, followed by a slight downward trend for the remainder of the Pause and Post-Pause periods. It should be noted that a tsunami occurred four days before the Week 9 monitoring event. Dissolved copper concentrations measured in Week 9 were slightly elevated compared with concentrations in previous weeks; however, by the following week (Week 10), dissolved copper concentrations returned to levels similar to those measured before the tsunami (Week 8). Overall, despite slight decreases in dissolved copper concentrations during the Pause and Post-Pause

periods, average dissolved copper concentrations remained well above the chronic WQO (3.1 µg/L) within SIYB.

At the reference stations, dissolved copper concentrations varied slightly from week to week, ranging from 0.16 µg/L (C-REF-1 in Week 5) to 2.1 µg/L (C-REF-2 in Week 16). However, dissolved copper concentrations at the reference stations were below the chronic WQO (3.1 µg/L) throughout the Monitoring Program.

#### *Individual Monitoring Stations*

Dissolved copper results for each individual monitoring station are presented in Figure 3-9. Plots of dissolved copper concentrations for all individual monitoring stations over time (by station and by week) are included in Appendix D.

Dissolved copper concentrations were highly variable across the individual monitoring stations over the course of the Monitoring Program. At the innermost stations (e.g., C-1/SIYB-1 through C-4), there was a clear incremental increase in dissolved copper concentrations during the Pre-Pause period, followed by somewhat of a downward trend during the Pause and Post-Pause periods. Similar increasing trends were apparent during the Pre-Pause period at some monitoring stations in the middle of the basin (e.g., C-9 through C-11); however, there were no clear decreasing trends in dissolved copper concentrations during the Pause and Post-Pause periods at these stations. Results from the outermost stations (C-12/SIYB-5, C-13/SIYB-6, and E-20) showed no clear trends in dissolved copper concentrations over the 16-week Monitoring Program.

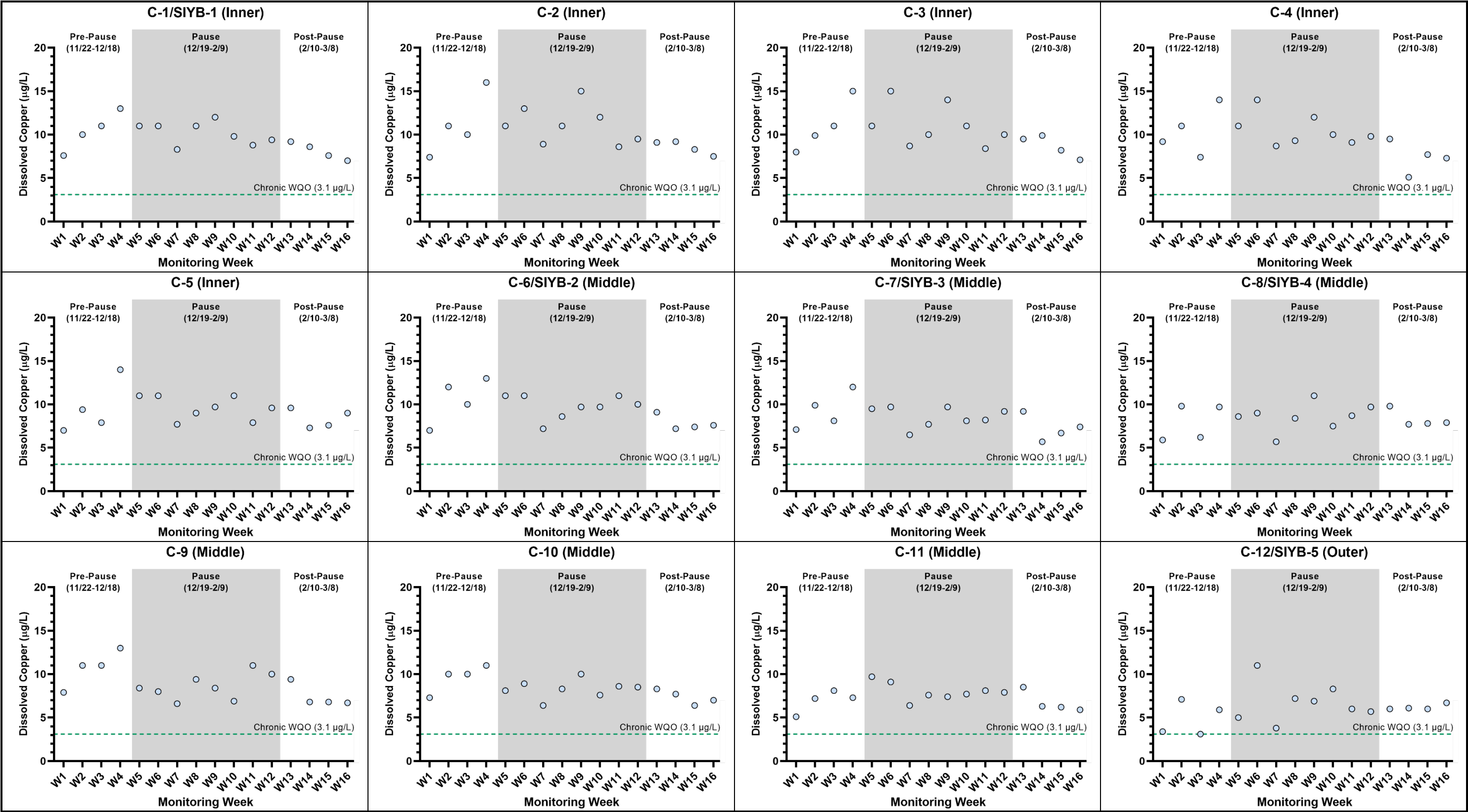


Figure 3-9. Dissolved Copper Concentrations at Individual Monitoring Stations Over Time

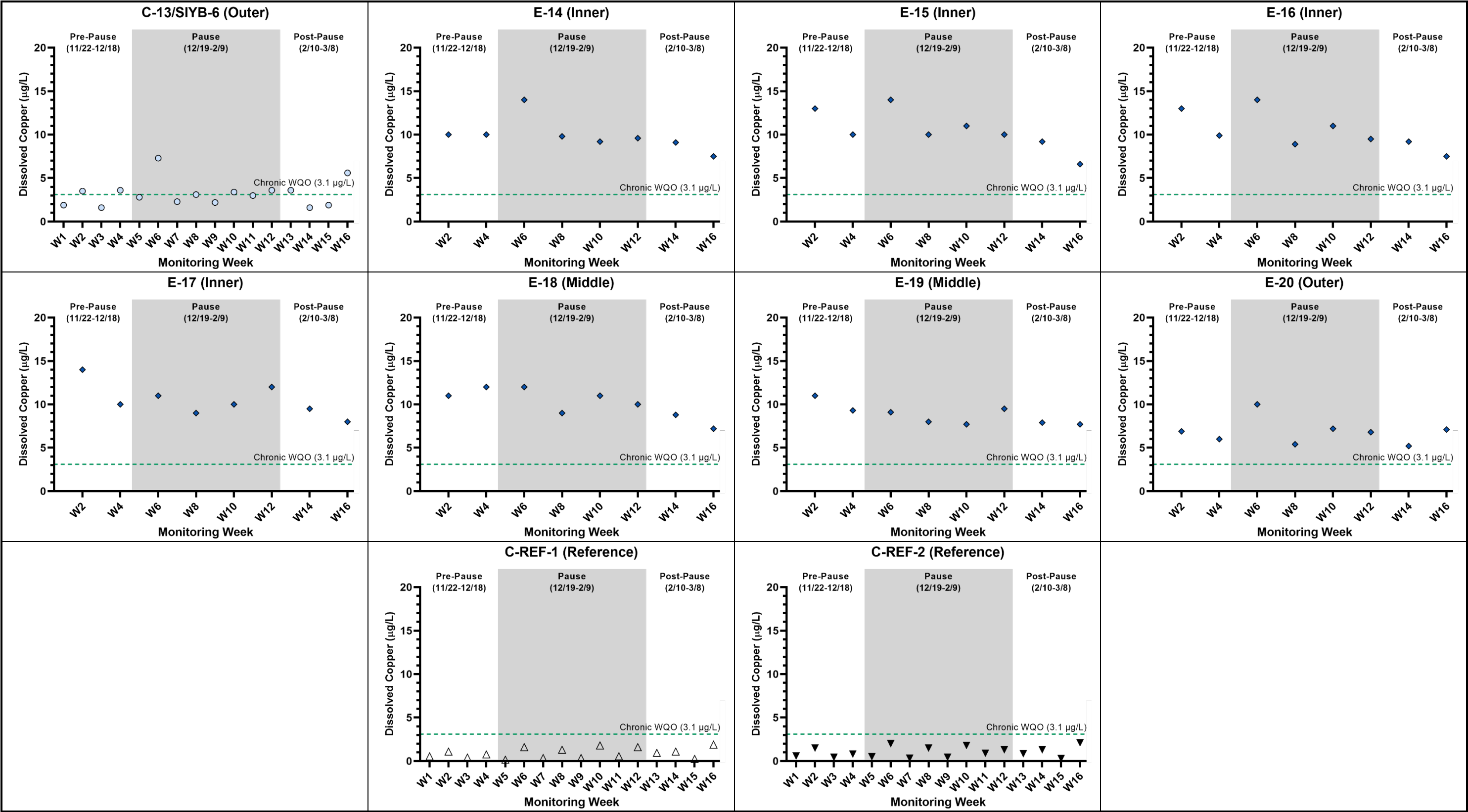
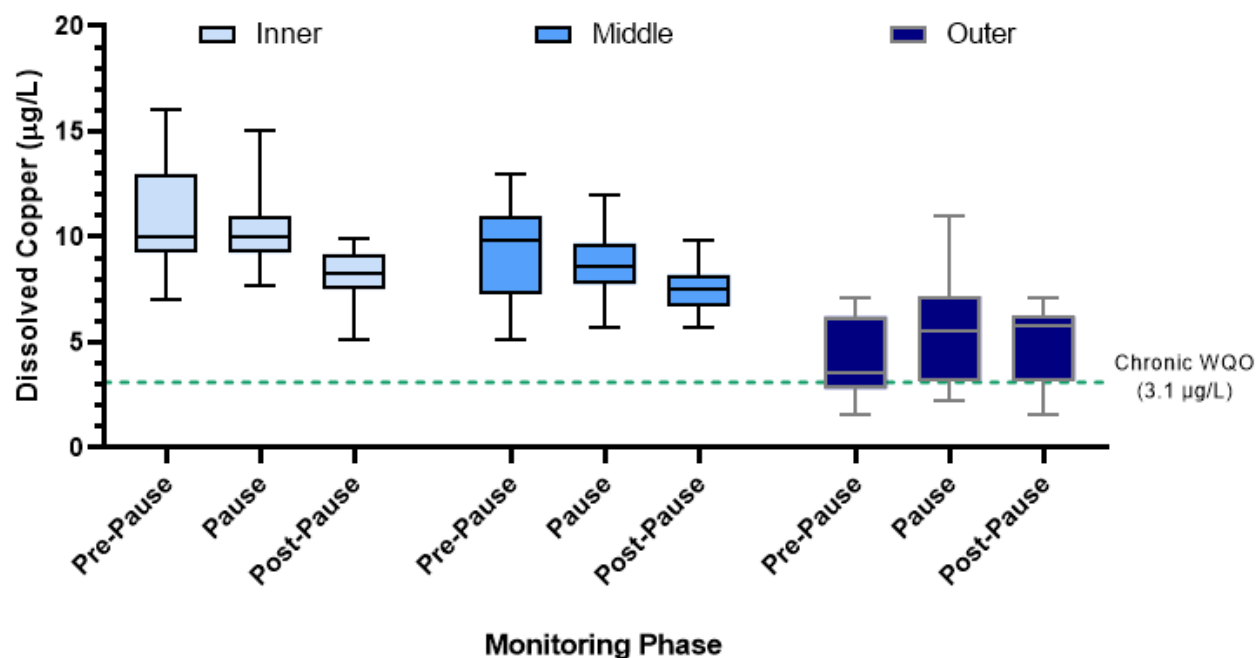


Figure 3-9. Dissolved Copper Concentrations at Individual Monitoring Stations Over Time (continued)

### Basin Regions

As depicted in Figure 3-9, dissolved copper concentrations varied over time at different monitoring stations throughout the basin. In general, similar trends were observed at monitoring stations in the inner, middle, and outer portions of the basin. To further examine regional trends in dissolved copper concentrations within SIYB, data from inner, middle, and outer monitoring stations were pooled and compared for each monitoring phase, as shown in Figure 3-10. Each box plot shows the quartiles (boxes), median (center line), and range of the data (whiskers).



**Figure 3-10. Dissolved Copper Concentrations By Region During Each Monitoring Phase**

Notes: µg/L = microgram(s) per liter; WQO = water quality objective  
Boxes represent the 25<sup>th</sup>, 50<sup>th</sup> (i.e., median), and 75<sup>th</sup> percentiles of the data, and whiskers represent the minimum and maximum.

There is a gradient in dissolved copper concentrations throughout the basin, with higher concentrations in the inner region (i.e., head of the basin) and lower concentrations in the outer region (i.e., mouth of the basin). This gradient remained consistent through all phases of the Monitoring Program.

As shown in Figure 3-10, in general, a decrease in dissolved copper concentrations was observed during the Pause and Post-Pause periods in the inner and middle regions of the basin. However, there does not appear to be a recognizable decrease in dissolved copper concentrations in the outer region of SIYB, with similar overlapping distributions in dissolved copper levels throughout the 16-week Monitoring Program.

### **Summary of Dissolved Copper Monitoring Results**

As described previously, dissolved copper concentrations were highly variable over the course of the 16-week Monitoring Program. In general, there was an apparent increase in dissolved copper concentrations during the Pre-Pause period and first two weeks of the Pause, followed by a slight, but recognizable, decrease in concentrations during the remainder of the Pause and Post-Pause

periods. These trends in dissolved copper concentrations were most pronounced in the inner and middle regions of the basin where vessels are most concentrated.

While the amount of hull cleaning that occurred prior to the Hull Cleaning Pause was not specifically quantified as part of the Monitoring Program's inspection component, staff observations made during preparatory Pre-Pause site visits suggested that a considerable amount of cleaning occurred during the Pre-Pause period. In particular, inspectors observed increases in the number of hull cleaners checking into facilities and the number of diver tags dated in the weeks leading up to the Pause. This increase in cleaning may have been responsible for the higher dissolved copper concentrations during the first six weeks of monitoring. The increase in dissolved copper levels in the basin at the outset of the Monitoring Program was not totally unexpected. It was assumed that there would be considerably more hull cleaning in the basin (relative to an average winter week) as the hull cleaners and boaters adjusted their cleaning schedules to accommodate the upcoming Hull Cleaning Pause.<sup>9</sup>

During the Pause period, frequent inspections were conducted by Port staff to ensure compliance with the Hull Cleaning Ordinance. Based on the 217 inspections conducted by Port staff, no hull cleaning of vessels with copper-based AFPs was observed in SIYB during the eight-week Pause. In addition, visual observations and photographs taken over the course of the Pause documented an increase in fouling on the vessels in SIYB (see Figure 3-6). This provided further evidence that vessels were not being cleaned during the Pause. As the Pause period progressed, the amount of fouling increased concurrently, which also supported the inspection findings that hull cleaning was not occurring.

Over the course of the Monitoring Program, there seemed to be a noticeable decrease in the dissolved copper levels, particularly in the inner and middle regions. The apparent downward trend in dissolved copper levels that was observed during the Pause was also observed during the four-week Post-Pause period. While it was expected that hull cleaning would resume immediately following the Pause, it is possible that this did not happen to the extent that it was occurring in the Pre-Pause period. During Post-Pause dock walks, Port inspectors observed less cleaning activity than expected. This observation suggests that hull cleaning may not have increased to normal levels during the Post-Pause period, potentially contributing to the continued slight downward trend in dissolved copper concentrations observed during Weeks 13 through 16 of the Monitoring Program.

### **3.3 Storm Monitoring Event**

In addition to routine weekly water quality monitoring, sampling was conducted during a single large storm event in Week 4 of the Monitoring Program to assess the potential effects of stormwater discharge on dissolved copper levels in SIYB. Field water quality measurements and surface water samples were collected from core monitoring and reference stations before and after the storm for comparison. The following sections present results and discussion related to the pre- and post-storm monitoring events.

---

<sup>9</sup> Inspectors also communicated with several hull cleaners and boaters who indicated that they were performing cleaning in preparation for the Hull Cleaning Pause.



### 3.3.1 Storm Event Physical Water Quality Parameters

Upon arrival at each monitoring station, field teams measured surface water temperature and salinity at a depth of 1 meter using a YSI ProDSS meter. Water clarity was also evaluated at each station using a Secchi disk.

Ranges of surface water temperature, salinity, and water clarity measured at the core monitoring stations throughout SIYB before and after the December 14, 2021 storm event are summarized in Table 3-6. The average water quality parameters for the two reference stations are also provided for comparison. Raw field water quality data for all stations and monitoring events are provided on field data sheets in Appendix B.

**Table 3-6.**  
**Water Quality Parameters Before and After Week 4 Storm**

WQ Parameter	Metric	Sampling Date	
		Week 4 Pre-Storm	Week 4 Post-Storm
		12/13/21	12/15/21
SIYB Stations			
Temperature (°C)	Min	15.4	14.5
	Max	15.9	15.5
Salinity (ppt)	Min	34.1	33.0
	Max	34.3	33.4
Secchi Depth (ft)	Min	4	6
	Max	12	11
Total Rain in Prior 72 Hours (in.) <sup>a</sup>	Sum	0	0.98
Reference Stations			
Temperature (°C)	Average	15.6	14.9
Salinity (ppt)	Average	34.2	33.6
Secchi Depth (ft)	Average	20	9

Notes:

°C = degree(s) Celsius; ft = foot/feet; in. = inch(es); Max = maximum; Min = minimum; NOAA = National Oceanic and Atmospheric Administration; ppt = part(s) per thousand; SIYB = Shelter Island Yacht Basin; Sum = summation; WQ = water quality

a. Rain totals obtained from NOAA Weather Station "USW00023188" located at the San Diego International Airport.

The Week 4 storm event produced 0.98 inch of rainfall on December 14, 2021. Following the storm, there was a measurable decrease in temperature and salinity of the receiving water at monitoring stations within SIYB and at the reference stations. Water clarity within SIYB was similar before and after the storm but decreased substantially at the reference stations after the storm.

### Summary of Storm Event Physical Water Quality Parameters

Overall, there were no anomalous field water quality results during the pre- and post-storm monitoring events. Observed decreases in temperature and salinity were likely a result of freshwater mixing in the marine environment following stormwater discharge. In addition, sampling was conducted on an outgoing tide following the storm, which may have transported storm-related particulates and debris from within SIYB and elsewhere along the shorelines of San Diego Bay to the reference stations. This may have contributed to the decrease in water clarity at the reference stations following the storm.

### 3.3.2 Storm Event Analytical Chemistry

Stormwater samples were collected from two outfalls (OF-1 and OF-2; Figure 2-2) during the Week 4 storm. For reference, OF-1 is located approximately 170-m north of Station C-11; OF-2 is located approximately 270-m northeast of Station C-9. Analytical chemistry results from the stormwater samples are presented in Table 3-7. In addition, surface receiving water samples were collected from core monitoring and reference stations before and after the December 14, 2021 storm. Copper results for each station are provided in Table 3-8. The complete analytical chemistry laboratory reports are provided in Appendix C. A QA/QC summary of all analytical laboratory data is in Section 3.5.

**Table 3-7.**  
**Outfall Chemistry Results from 12/14/21 Storm**

Station ID	Dissolved Copper (µg/L)	Total Copper (µg/L)	Total Suspended Solids (mg/L)
OF-1	17	63	170
OF-2	23	30	33

Notes: µg/L = microgram(s) per liter; ID = identifier; OF- = outfall; mg/L = milligram(s) per liter

**Table 3-8.**  
**Receiving Water Chemistry Results Before and After 12/14/21 Storm**

Basin Region	Station ID <sup>a</sup>	Week 4 Pre-Storm (12/13/21)	Week 4 Post-Storm (12/15/21)	
		Dissolved Copper (µg/L)	Dissolved Copper (µg/L)	Total Copper (µg/L)
Inner	C-1/SIYB-1	13	12	14
Inner	C-2	16	12	15
Inner	C-3	15	12	13
Inner	C-4	14	13	14
Inner	C-5	14	13	15
Middle	C-6/SIYB-2	13	12	14
Middle	C-7/SIYB-3	12	9.6	11
Middle	C-8/SIYB-4	9.7	11	13
Middle	C-9	13	11	13
Middle	C-10	11	11	13
Middle	C-11	7.3	11	12
Outer	C-12/SIYB-5	5.9	11	12
Outer	C-13/SIYB-6	3.6	7.0	7.9
<b>Basin-wide Average ± SE</b>		<b>11 ± 0.7</b>	<b>11 ± 0.4</b>	<b>12.8 ± 0.5</b>
Reference	C-REF-1/SIYB-REF-1	0.76	0.71	0.91
Reference	C-REF-2/SIYB-REF-2	0.81	0.44	0.67

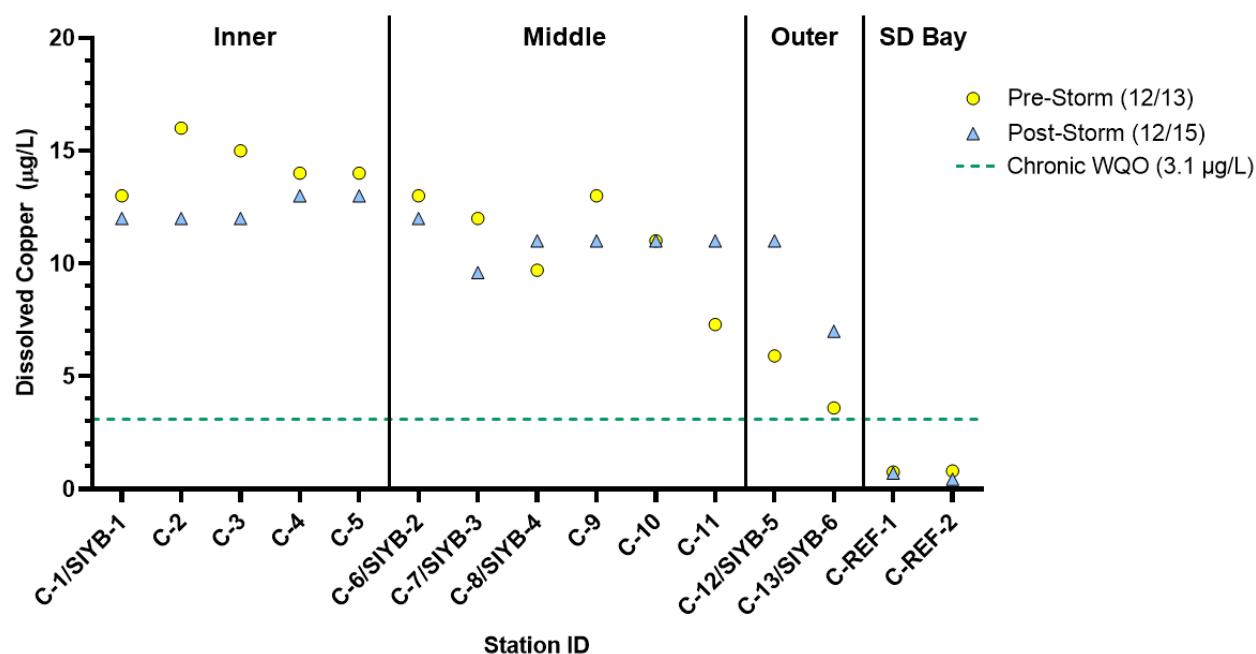
Notes:

µg/L = microgram(s) per liter; C- = core; E- = enhanced; ID = identifier; REF- = reference; SE = standard error; SIYB = Shelter Island Yacht Basin; TMDL = Total Maximum Daily Load

a. A subset of the core monitoring stations and both reference stations were co-located with the stations monitored annually for TMDL compliance. These stations include both the Hull Cleaning Pause station ID and the SIYB TMDL station ID for reference.

Dissolved copper results from the two outfalls ranged from 17 µg/L to 23 µg/L. The average event mean concentration (EMC) for dissolved copper measured over the past 13 monitoring seasons (2008–2021) at OF-2 as part of the City of San Diego's Municipal Separate Storm Sewer System (MS4) discharge monitoring required by the SIYB TMDL (Wood, 2021c) is 23 µg/L. This is the same dissolved copper concentration measured in the OF-2 grab sample collection for this effort. Although this Monitoring Program's grab sample is not directly comparable with flow-weighted pollutograph samples collected over the entire storm, the result appears to be consistent with concentrations found during routine monitoring of OF-2. The City of San Diego does not conduct sampling at OF-1 during wet weather for MS4 monitoring purposes, so there is no directly comparable value for OF-1. These instantaneous dissolved copper results obtained from OF-1 and OF-2 are less than the 32.6 µg/L dissolved copper EMC value used to evaluate dissolved copper load from urban runoff in the Appendix 2 of the SIYB TMDL (Regional Board, 2005).

In the SIYB receiving water before the storm, there was a clear gradient in dissolved copper, with concentrations decreasing from the head of basin (C-1/SIYB-1) to the mouth of the basin (C-13/SIYB-6) and reference stations (Figure 3-11). However, after the storm, dissolved copper concentrations were relatively consistent throughout the basin, with the exception of Station C-13/SIYB-6 located at the mouth of SIYB.



**Figure 3-11. Dissolved Copper Concentrations Before and After Storm Event**

Notes: µg/L = microgram(s) per liter; C- = core; REF- = reference; SD = San Diego; SIYB = Shelter Island Yacht Basin; WQO = water quality objective

## Summary of Storm Event Analytical Chemistry Results

As depicted in Figure 3-11, the storm that occurred on December 14, 2021 appeared to affect the spatial distribution of dissolved copper in SIYB, with more uniform dissolved copper concentrations observed throughout the basin after the storm. The storm generated strong winds (average of 17 miles per hour [mph] with gusts up to 43 mph) and currents that likely resulted in mixing of stormwater and receiving water throughout the basin. However, the basin-wide average

dissolved copper concentrations remained the same before and after the storm (11 µg/L; Table 3-8). This finding suggests that stormwater discharge did not contribute a substantial amount of copper loading to SIYB.

Additionally, based on the annual loading estimates performed by the City of San Diego for the MS4 component of the SIYB TMDL, the stormwater contribution has consistently been less than the waste load allocation of 30 kg/yr every year since 2011 (Wood, 2020). This represents less than 1% of the annual dissolved copper load to SIYB estimated in the SIYB TMDL. These results are consistent with the outfall and receiving water results measured during the Pause stormwater monitoring event.

### **3.4 Other Environmental Factors to Consider**

The objective of the Hull Cleaning Pause Water Quality Monitoring Program was to evaluate how a pause in hull cleaning affects dissolved copper levels in SIYB. However, there are other factors that may also have had effects on the dissolved copper levels in the basin. For example, a 2018 study showed a direct link between tidal fluctuations and dissolved copper levels at certain locations in SIYB (Amec Foster Wheeler, 2018). Consequently, several environmental factors were evaluated to assess whether they may have influenced the Hull Cleaning Pause monitoring results. This evaluation is presented in Table 3-9. Overall, despite small-scale variability in the ambient dissolved copper levels that may have resulted from factors other than hull cleaning, these factors were determined to have limited influence on the overall findings related to hull cleaning effects on dissolved copper concentrations.

**Table 3-9.**  
**Evaluation of Environmental Factors that May Affect Ambient Copper Levels in SIYB**

Environmental Factor	Evaluation
Potential for rainfall and associated stormwater runoff	<p>Over the course of the 16-week Monitoring Program, seven rain events (i.e., events generating &gt;0.1 inch rainfall) of varying magnitudes occurred, generating a total of approximately 4 inches of rainfall. To assess the potential impacts of associated stormwater discharge on copper levels in SIYB, one storm event (0.98 inch of rainfall) was sampled during Week 4 of the Pre-Pause period. As presented in Section 3.3, results from the pre- and post-storm monitoring events indicated that the storm event affected the spatial distribution of copper throughout the basin, with increased mixing and less of a gradient in copper levels throughout the basin after the storm. However, the basin-wide average concentrations before and after the storm were the same (11 µg/L), which suggests that stormwater discharge had minimal effects on copper levels in SIYB overall. This finding is consistent with the SIYB TMDL model and the City of San Diego SIYB TMDL monitoring, which indicate that urban runoff contributes 1% of the annual dissolved copper load to SIYB.</p> <p>As such, storm events and associated stormwater runoff are not expected to have had any significant impact on dissolved copper levels or findings related to the effects of hull cleaning on dissolved copper concentrations throughout the Monitoring Program.</p>
Seasonality	<p>As expected, surface water temperatures measured in SIYB throughout the 16-week Monitoring Program conducted in the winter were lower than those measured during previous SIYB TMDL compliance monitoring events conducted in the summer. Over the 16 weeks, surface water temperatures within the basin ranged from 14.2 to 17.5°C compared with an average of 22.1°C (range: 18.8–25.9°C) measured during the SIYB TMDL summer compliance Monitoring Program. Despite the cooler water temperatures, dissolved copper concentrations measured before, during, and after the Pause period were similar to or higher than those measured in SIYB during previous SIYB TMDL compliance monitoring events conducted in the summer. Further, there was no significant correlation between temperature and dissolved copper measured during the Monitoring Program, suggesting that temperature did not have substantial effects on dissolved copper concentrations in SIYB during the Monitoring Program. Therefore, changes in temperature throughout the Monitoring Program are not expected to have had any significant impact on findings regarding the effects of hull cleaning on dissolved copper concentrations.</p>
Variation in surface water dissolved copper levels due to tides	<p>Because of the 16-week Monitoring Program design, it was not feasible to coordinate sample collection at a given monitoring station at the same tidal stage. However, monitoring stations were sampled in the same order over the 16 weeks, capturing a broad range of tidal stages at each monitoring station to better represent the overall conditions in SIYB (see Figure 2-3). Overall, monitoring results appeared consistent with those observed during the 2018 Time Series Study (Amec Foster Wheeler, 2018). In particular, the variability in copper concentrations at different tidal stages was most prominent at the mouth of the basin and decreased toward the head of the basin. At the outermost monitoring stations, there was an oscillating pattern in dissolved copper concentrations observed every other week during the Monitoring Program that corresponded well with tidal cycles and patterns in copper concentrations at the reference sites. Concentrations of dissolved copper at both the reference sites and within SIYB (middle and outer locations) were consistently greater during outgoing tides compared with that measured during incoming tides in both this Monitoring Program and the 2018 special study. While tides contributed to variability in dissolved copper concentrations in the basin observed during this Monitoring Program (and the Time Series Study), tides did not have a substantial impact on overall findings regarding the effects of hull cleaning on dissolved copper concentrations.</p>

**Table 3-9. (continued)**  
**Evaluation of Environmental Factors that May Affect Ambient Copper Levels in SIYB**

Environmental Factor	Evaluation
Tsunami	<p>A tsunami was generated on January 15, 2022, following an underwater volcanic eruption off the coast of Tonga. Tsunami waves caused the waters in San Diego Bay to rise 1.4 feet. The surging and receding tsunami waves generated strong currents in SIYB that may have disrupted typical water circulation dynamics and briefly resuspended sediments throughout the basin.</p> <p>An evaluation was conducted to assess potential impacts of the tsunami on dissolved copper levels in SIYB. Notably, basin-wide average dissolved copper levels generally correlated with tides, with slightly higher average concentrations on outgoing tides and slightly lower average concentrations on incoming tides. However, this trend was not apparent during the week following the tsunami (Week 9). Samples during Week 9 were collected following a steep incoming tide, which was reflected in the relatively low dissolved copper results at the reference stations; however, dissolved concentrations within SIYB were slightly higher than those measured in previous weeks. This suggests that slightly elevated dissolved copper concentrations in Week 9 may have been related to residual effects from the tsunami (e.g., water circulation patterns, resuspension of sediment, etc.).</p> <p>While slight increases in dissolved copper concentrations were measured during Week 9 of the Monitoring Program following the tsunami, the Week 9 data points were not outliers and fell within the range of dissolved copper concentrations measured during the Pause. Further, by the following week (Week 10), the dissolved copper concentrations returned to levels similar to those measured before the tsunami (Week 8). Therefore, the tsunami is not expected to have had any significant impact on findings related to the effects of hull cleaning on dissolved copper concentrations</p>

Notes:

% = percent; µg/L = microgram(s) per liter; °C = degree(s) Celsius; SIYB = Shelter Island Yacht Basin; TMDL = Total Maximum Daily Load

### 3.5 Quality Assurance and Quality Control

This section provides an assessment of data quality and usability for the analytical chemistry results. The chemistry laboratory reports prepared by Weck (Appendix C) also include detailed QC results sections.

For each monitoring event (16 weekly events and 1 post-storm event), all samples were submitted to the analytical chemistry laboratory on the day after they were collected. The samples were received on ice and in good condition at Weck. The samples for dissolved copper analyses were field-filtered by Wood immediately following collection and preserved by the laboratory upon receipt. All samples met holding time requirements for analysis.

Analytical chemistry results underwent a thorough QA/QC evaluation; they were determined to meet the data quality objectives in the QAPP and were deemed acceptable for reporting purposes, with the qualifications noted in the QC section of the laboratory reports (Appendix C).

A review of data quality indicators and evaluation of potential data impact associated with the analytical chemistry results are provided below:

- Low-level detections of dissolved copper were measured in some of the field blanks (FBs; 6 of 17 events) and equipment rinsate (ER) blanks (12 of 17 events).
  - Measurable concentrations of dissolved copper in FB samples ranged from 0.012 to 0.038 µg/L. Concentrations measured in ER blanks ranged from 0.005 to 0.53 µg/L. These low-level detections may indicate trace contamination in the field and equipment blanks, laboratory contamination, and/or a combination of calibration offset near the method reporting limit. The low-level concentrations were negligible relative to the sample concentrations measured within SIYB, and there is no impact on data usability.
- Low-level detections of dissolved copper were measured in some of the method blanks (5 of 17 events).
  - Measurable concentrations of dissolved copper in the method blanks ranged from 0.007 to 0.1 µg/L, which are orders of magnitude below SIYB sample concentrations. These ultra-low-level detections are expected due to the low method detection limit of 0.0038 µg/L. This trace-level laboratory contamination is considered to be negligible, and there is no impact on data usability.
- Laboratory control sample (LCS) recoveries for all sample batches ranged from 91 to 111% and were well within performance-based recovery limits (70–130%).
  - Of the 25 LCS results reported for dissolved copper, recoveries averaged 98.8%, indicating excellent overall accuracy. In addition, the 91 to 111% recovery range demonstrates very good precision.
- Matrix spike (MS) and matrix spike duplicate (MSD) recoveries were all within performance-based recovery limits, with the exception of one MS sample from Week 6.
  - Of the 41 MS/MSD pairs reported, recoveries averaged 99.8%, indicating very good overall accuracy. In addition, the 80 to 131% recovery range demonstrated good precision. There was one control limit exceedance of 131% recovery for a MS sample. However, this single exceedance was attributable to low spiking concentration relative to sample concentration. The data are flagged accordingly and reported as measured with no other data qualification.
- Five samples were reanalyzed due to anomalous results, including one site sample from Station C-9 (Week 2; ND [non-detect]), one site sample from Station C-10 (Week 2; ND), one site sample from Station C-12 (Week 10; 17 µg/L), one ER blank (Week 10; 1.9 µg/L), and one field blank (Week 12; 1.1 µg/L).
  - These results were reported as measured in the reanalysis without other data qualification.

## 4.0 SUMMARY OF MONITORING PROGRAM FINDINGS

---

The purpose of this Monitoring Program was to assess how a pause in hull cleaning of vessels with copper-based AFPs affects dissolved copper concentrations in SIYB. As described in this report, surface water samples for dissolved copper analyses were taken prior to, during, and after the Hull Cleaning Pause to conduct the assessment. The monitoring results provide information regarding the relationship between dissolved copper loading from hull cleaning and water quality in SIYB.

With regard to the specific findings of this Monitoring Program, there was an apparent increasing trend in dissolved copper concentrations during the Pre-Pause period and first two weeks of the Pause, followed by a slight downward trend in the remaining Pause and Post-Pause periods. This trend was particularly evident in the inner and middle regions of the basin where vessels are most concentrated. No clear trends in dissolved copper concentrations were observed in the outer portions of the basin near the mouth.

As previously discussed (Section 1.1), the 2005 SIYB TMDL Conceptual Model assumed that hull cleaning of copper-based AFPs contributed 5% to the total dissolved copper load to SIYB (compared with 93% for passive leaching), while a more recent study (Earley et al., 2013) indicated that the SIYB TMDL's hull cleaning load assumption may be an underestimate. The SIYB TMDL Model assigned the 5% hull cleaning load based on the assumption that each cleaning event is an instantaneous one-day event resulting in enhanced copper release rates only during the active cleaning of a vessel with copper-based AFP. In contrast, Earley et al. (2013) found that dissolved copper release rates were not only enhanced during the cleaning event, but for two to three days following the cleaning event, and then slowly declined until reaching a "pseudo steady state" approximately 30 days post-cleaning. As such, the Earley et al. (2013) study suggests that dissolved copper loading associated with hull cleaning occurs over a longer period of time following a cleaning event and consequently may account for a greater load contribution (i.e., >5%) than previously predicted in the TMDL.

Based on the findings presented in Earley et al. (2013), it was theorized that a complete pause in hull cleaning in SIYB for longer than the 30-day period expected for copper release rates to return to a "pseudo steady state" would result in an observable decrease in dissolved copper levels in the basin, as the load contribution from hull cleaning was reduced to zero. It was further theorized that if the hull cleaning load was substantially greater than the modeled 5% from the SIYB TMDL, then a corresponding decrease in dissolved copper may shift the basin-wide water quality substantially closer to the 3.1 µg/L water quality standard.

This report is intended to present results from the Hull Cleaning Pause Water Quality Monitoring Program to enable stakeholders, including regulatory agencies, to use this information to discuss and determine next steps for SIYB and other copper-related regulatory actions, where applicable. Specific findings from this Monitoring Program are highlighted below.

- There was an apparent increase in the dissolved copper levels throughout the basin during the Pre-Pause period and extending through the first two weeks of the Pause, particularly at the inner basin stations and the stations in closer proximity to vessels (i.e., enhanced stations). There was also a noticeable increase in hull cleaning activities in the last two weeks of the Pre-Pause period as boaters and hull cleaners prepared for the Hull Cleaning



Pause. Under the assumption that dissolved copper leach rates spike following cleaning events, the increase in dissolved copper concentrations observed during the Pre-Pause period and beginning of the Pause period, particularly in the inner basin, could be attributed to an increase in hull cleaning activities.

- After the first two weeks of the Pause, dissolved copper concentrations began to trend downward over the remainder of the Pause period. This trend continued through the Post-Pause period. This finding was consistent with that presented in Earley et al. (2013), with the expected spike in dissolved copper concentrations from hull cleaning activities gradually diminishing as concentrations returned to “pseudo steady state” after the first 30 days of the Pause. The hull cleaning inspections conducted throughout the eight-week Hull Cleaning Pause did not find any instances where divers were cleaning or had cleaned (via dive tag observations) vessels with copper-based AFPs. This finding was further supported by the notable increase in marine growth (fouling) on vessel hulls throughout the basin over the course of the Pause.
- Following the Pause, it was assumed that hull cleaning frequency would increase to Pre-Pause levels as cleaning activities resumed. However, observations during dock walks conducted in the Post-Pause period did not indicate a notable increase in hull cleaning, suggesting that there may have been a delay in resuming routine hull cleaning activities following the Pause. This may have contributed to the continued slight downward trend in dissolved copper concentrations following the Pause.
- The Monitoring Program also included a stormwater sampling component to evaluate the potential effects of stormwater discharge on copper levels in SIYB and on the Hull Cleaning Pause monitoring results. The results of the pre- and post-storm weekly monitoring events suggested that stormwater discharge did not contribute a substantial amount of copper loading to SIYB. While the storm did appear to have an overall mixing effect on the spatial distribution of dissolved copper in SIYB (i.e., more uniform concentrations throughout the basin after the storm), the basin-wide average dissolved copper concentrations remained the same before and after the storm (11 µg/L). As such, storm events and associated stormwater runoff are not expected to have had any significant impact on dissolved copper levels or conclusions related to the effects of hull cleaning on dissolved copper concentrations throughout the Monitoring Program.
- While there was an observed decrease in basin-wide dissolved copper levels during the Pause and Post-Pause periods, it should be noted that the basin-wide average measured during the final week of the Monitoring Program (7.2 µg/L in Week 16) was similar to that measured during Week 1 (6.5 µg/L). These basin-wide average dissolved copper concentrations were also consistent with those measured during previous TMDL monitoring events (Wood, 2022a).
- While a pause in the hull cleaning of vessels with copper-based AFPs does decrease the load of dissolved copper into the basin, leading to subsequent reductions in dissolved copper concentrations, it appears that changes to the basin-wide dissolved copper concentrations are minimal when compared with the passive leaching of copper-based AFPs, which is the predominant source of copper loading to the basin.

- Despite observed decreases in dissolved copper levels during the Pause and Post-Pause periods, the total cessation of hull cleaning during the Monitoring Program was insufficient to reduce the basin-wide dissolved copper levels to a level that would achieve the current water quality standard (3.1 µg/L).

The following points should be considered when interpreting results from this Monitoring Program:

- It is not currently known what the dissolved copper levels would be if the study were to be extended over a longer period of time. However, the findings of this study suggest that a complete elimination of hull cleaning would not likely result in achievement of water quality standards in SIYB.
- It is not currently known how the effects of hull cleaning on dissolved copper levels may differ in other marina basins with different characteristics (e.g., number of vessels, size, hydrodynamics).
- Careful consideration must be given to balancing the value of hull cleaning in protecting, maintaining and preserving vessel hulls and in preventing invasive species with the environmental concerns related to cleaning.

## 5.0 REFERENCES

---

- Amec Foster Wheeler Environment & Infrastructure, Inc. (Amec Foster Wheeler). 2018. *24-Hour Time Series Analysis of Dissolved Copper in Shelter Island Yacht Basin Technical Memorandum*. March.
- California State Water Resources Control Board (SWRCB). 2014. *Collections of Water and Bed Sediment Samples with Associated Field Measurements and Physical Habitat in California*. Version 1.1. Updated March 2014. [http://www.waterboards.ca.gov/water\\_issues/programs/swamp/docs/collect\\_bed\\_sediment\\_update.pdf](http://www.waterboards.ca.gov/water_issues/programs/swamp/docs/collect_bed_sediment_update.pdf)
- Earley, P.J., B.L. Swope, K. Barbeau, R. Bundy, J.A. McDonald, and I. Rivera-Duarte. 2013. *Life cycle contributions of copper from vessel painting and maintenance activities*. Biofouling: The Journal of Bioadhesion and Biofilm Research, DOI: 10.1080/08927014.2013.841891.
- San Diego Regional Water Quality Control Board (Regional Board). 2005. *Shelter Island Yacht Basin Dissolved Copper Total Maximum Daily Load, San Diego Bay*. Resolution No. R9-2005-0019. Basin Plan Amendment and Technical Report.
- Wood Environment & Infrastructure Solutions, Inc. (Wood). 2020. *Shelter Island Dissolved Copper Total Maximum Daily Load Final 2019–2020 Compliance Monitoring Report*. November 2020.
- Wood. 2021a. *In-Water Hull Cleaning Pause Pilot Study Sampling and Analysis Plan and Quality Assurance Project Plan*. January 2021; Revised November 17, 2021.
- Wood. 2021b. *2020 Shelter Island Yacht Basin Dissolved Copper Total Maximum Daily Load Monitoring and Progress Report*. March 2021.
- Wood. 2021c. *2021 Shelter Island Dissolved Copper Total Maximum Daily Load Final 2020–2021 Compliance Monitoring Report*. November 2021.
- Wood. 2022a. *2021 Shelter Island Yacht Basin Dissolved Copper Total Maximum Daily Load Monitoring and Progress Report*. March 2022.
- Wood. 2022b. *2021 Shelter Island Yacht Basin Dissolved Copper Winter Monitoring Technical Memorandum*. February 2022.

## **APPENDIX A**

### **IN-WATER HULL CLEANING INSPECTION REPORTS**



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Kona Kai</i>	Inspector: <i>P. Barlow</i>	Marina Contact: <i>Jack - F</i>	Date/Time: <i>12/19 - 1100</i>
-------------------------	-----------------------------	---------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

*Jack out of office when diver arrived*

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input checked="" type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: <i>HIF Moon</i>	Inspector: <i>P. Boston</i>	Marina Contact: <i>B. Oliver</i>	Date/Time: <i>12/19 - 1300</i>
-------------------------	-----------------------------	----------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No	Notes: <i>Office closed</i>		
Marina has current Authorized Diver List?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes: <i>N/A</i>		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes: <i>N/A</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):		
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall: in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Shelter Island Marina</i>	Inspector: <i>K. Tair</i>	Marina Contact: <i>Nancy - office</i>	Date/Time: <i>12/19/21 1030</i>
---	------------------------------	--	------------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>Nancy is wknd staff</i>		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>said generally no wknd work abt out yesterday</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N <input type="radio"/>	Actual Rainfall: <i>&lt;0.1 in</i>	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible]

Did not check since day 1

[illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Transient Dock</i>	Inspector: <i>K. Tair</i>	Marina Contact: <i>Port</i>	Date/Time: <i>12/19/11 11:00am</i>
----------------------------------	------------------------------	--------------------------------	---------------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes <i>port operated</i>		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):		
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>			
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N <input type="radio"/>	Actual Rainfall: <i>&lt; 0.1 in.</i> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible]

None

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>K. Tarr</u>	Marina Contact: <u>Stef Johnson</u>	<u>Security Gate</u>	Date/Time: <u>12/19/21 830a</u>
---------------------	---------------------------	-------------------------------------	----------------------	---------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <u>talked w/ security gate</u>		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes <u>showed me</u>		
Divers currently-checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <u>Security said on sundays, only emergency allowed</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="radio"/> None	Trash <input type="radio"/>	Foam <input type="radio"/>	Sewage <input type="radio"/>
	Vegetation <input checked="" type="radio"/> None	Limited <input type="radio"/>	Normal <input type="radio"/>	Excessive <input type="radio"/>
	Odors Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):		
	Illicit Discharge Y <input type="radio"/> N <input checked="" type="radio"/>			
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N <input type="radio"/>	Actual Rainfall: <u>&lt; 0.1 in</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible]

Did not check since Day 1

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SGYC</u>	Inspector: <u>K. Tait</u>	Marina Contact: <u>Front Desk</u>	Date/Time: <u>12/19/21 925am</u>
---------------------	---------------------------	-----------------------------------	----------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Marina has current Authorized Diver List?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <u>Front desk gal only works weekends, said no work allowed</u>		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <u>u "</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation <input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors Y <input checked="" type="radio"/> N	Notes (Slip#):		
	Illicit Discharge Y <input checked="" type="radio"/> N			
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>&lt;0.1 in.</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible]

Did not check since Day 1

[illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <b>SGYC</b>	Inspector: <b>K. Fair</b>	Marina Contact: <b>Tammy - office</b>	Date/Time: <b>12/19/21 10:00am</b>
------------------------	------------------------------	--	---------------------------------------

### Facility Check-In

Marina Manager Present?	Yes	<input checked="" type="radio"/> No	Notes <b>Tammy - weekend office worker</b>	
Marina has current Authorized Diver List?	Yes	<input checked="" type="radio"/> No	Notes <b>Tammy did not know about it</b>	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="radio"/> No	Notes <b>Had sign in sheet. most of the time no wknd work</b>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input checked="" type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs:	Actual Rainfall:
				<input checked="" type="radio"/> Y <input type="radio"/> N	<b>&lt; 0.1 in</b> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible]

Did not check since Day

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Kona Kai</i>	Inspector: <i>P. Barkow</i>	Marina Contact: <i>J. Fischetti</i>	Date/Time: <i>12/20 0800</i>
-------------------------	-----------------------------	-------------------------------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes <i>None checked-in @ 800</i>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>Fabresio</i>	<i>Dirty Bottoms</i>	<i>No</i>	<i>45</i>	<i>Zincs</i>
	<i>(checked in at 1330)</i>			

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input checked="" type="checkbox"/> Moderate (4-10 boats)	<input type="checkbox"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="checkbox"/> None	<input type="checkbox"/> Trash	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N		
Weather: <input checked="" type="checkbox"/> Sunny	<input type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall: _____ in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Shelter Island Marina</i>	Inspector: <i>P. Barlow</i>	Marina Contact: <i>S. Ravitch</i>	Date/Time: <i>12/20 0930</i>
---	--------------------------------	--------------------------------------	---------------------------------

### Facility Check-In

Marina Manager Present?	Yes	No <input checked="" type="checkbox"/>	Notes <i>closed</i>	
Marina has current Authorized Diver List?	Yes	No	Notes <i>N/A</i>	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes <i>N/A</i>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None <input checked="" type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N	Notes (Slip#): <i>Appears to be paint chips (boat)</i>
	Illicit Discharge	Y <input checked="" type="checkbox"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: Bay Club	Inspector: P. Burlew	Marina Contact: Shetex	Date/Time: 12/30 - 10:15
------------------	----------------------	------------------------	--------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes: None	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact: <u>Steph Johnson</u>	Date/Time: <u>12/20 - 1145</u>
---------------------	-----------------------------	--------------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	No	<u>Checked-in w/ Security</u>	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes	
			<u>None</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input checked="" type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>SWYC</i>	Inspector: <i>P. Berlow</i>	Marina Contact:	Date/Time: <i>12/20 - 1315</i>
------------------------	--------------------------------	-----------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes <i>None</i>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input checked="" type="checkbox"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N		
Weather:	<input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs:	Y <input checked="" type="checkbox"/> N
Actual Rainfall:				in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>transient dock</u>	Inspector: <u>K. Iait</u>	Marina Contact: <u>port operated</u>	Date/Time: <u>12/20/21 230pm</u>
-------------------------------	---------------------------	--------------------------------------	----------------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible]

None observed

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Silvergate YC</i>	Inspector: <i>R. Fair</i>	Marina Contact: <i>Celeste Leginski</i>	Date/Time: <i>12/22/24 130p</i>
---------------------------------	------------------------------	--	------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>said noone at all today</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <i>Bay Club Marina</i>	Inspector: <i>K. Tai</i>	Marina Contact: <i>Shelley Griffin</i>	Date/Time: <i>12/20/21 2pm</i>
-----------------------------------	-----------------------------	---	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs:	Y <input checked="" type="radio"/> N
Actual Rainfall:				in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Half Moon</u>	Inspector: <u>K. Tsip</u>	Marina Contact: <u>Lani</u>	Date/Time: <u>12/20/21 12:00p</u>
--------------------------	---------------------------	-----------------------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Marina has current Authorized Diver List?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

went to hotel lobby marina office closed

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	N	Notes (Slip#):	
	Illicit Discharge	Y	N		
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall: in.			

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Star		No Date	sidetic main gangway
Omega		No Date	Side the main gangway
Omega		No Date	" "
Omega	D114	No Date	
Marlons Marine Service	C?	No Date	towards end of 2011 sailboat
Omega	C Dock	No Date	end tues
Omega	C Dock	No Date	end tues
Omega	B52	" "	
Marlons Marine	A35	" "	



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Gold Coast</u>	Inspector: <u>K. Tait</u>	Marina Contact: <u>Katherine</u>	Date/Time: <u>12/20/21 11:00am</u>
------------------------------	------------------------------	-------------------------------------	---------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall:                      in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Tonga/Silver Sea</u>	Inspector: <u>K. Fair</u>	Marina Contact: <u>Susan</u>	Date/Time: <u>12/20/21 11:20a</u>
------------------------------------	------------------------------	---------------------------------	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="radio"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible]

No tags seen

[illegible]





Marina: <u>Crows Nest</u>	Inspector: <u>K. Tair</u>	Marina Contact: <u>Patricia + Mark</u>	Date/Time: <u>12/20/21 1130</u>
---------------------------	---------------------------	--	---------------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:      in.	

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible]

No tags seen

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Shelter Island</u>	Inspector: <u>Garry Turner</u>	Marina Contact: <u>Joe Ravitch</u>	Date/Time: <u>12/21 10:30</u>
-------------------------------	--------------------------------	------------------------------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="radio"/> No	Notes <u>No divers present</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:      in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Silver Lake</i>	Inspector: <i>P. Barlow</i>	Marina Contact:	Date/Time: <i>12/21 - 1045</i>
-------------------------------	--------------------------------	-----------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes <i>None</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input checked="" type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<i>Flaking Marine growth</i>
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

22

Marina: <u>Half Moon</u>	Inspector: <u>P. Berdn</u>	Marina Contact:	Date/Time: <u>12/21 - 1200</u>
--------------------------	----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes <u>Earlier in day - 1100y</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Felpe</u>	<u>Herdez</u>	<u>Yes</u>	<u>Mighty</u>	<u>Zincs</u>
<u>LUZMAN</u>	<u>STAR</u>	<u>Yes</u>		<u>Zincs</u>
	<u>(e 410m)</u>			

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<u>Y</u>	<u>N</u>	Notes (Slip#):	
	Illicit Discharge	<u>Y</u>	<u>N</u>	<u>Sheen observed, possibly oil</u>	
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u>	<input checked="" type="radio"/> Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Burlew</u>	Marina Contact:	Date/Time: <u>12/21 - 1305</u>
---------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<del>Yes</del> No	Notes		
Marina has current Authorized Diver List?	<del>Yes</del> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<del>Yes</del> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>David Root</u>	<u>Hullcraft</u>	<u>Y</u>		<u>zincs</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

24

Marina: <i>Bay Club</i>	Inspector: <i>Annabelle</i>	Marina Contact: <i>Shelley Griffin</i>	Date/Time: <i>12/21/21 1:45 pm</i>
----------------------------	--------------------------------	---	---------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>None</i>			

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Hona Kai</i>	Inspector: <i>Annabelle</i>	Marina Contact: <i>Jack Fischetti</i>	Date/Time: <i>12/21 10:00 am</i>
----------------------------	--------------------------------	--	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>Fabresio</i>	<i>Dirty Bottoms</i>	<i>No</i>	<i>C45</i>	<i>Zinc</i>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<i>Y</i>	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<i>Y</i>	<input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <i>Y</i>	Actual Rainfall: <input type="radio"/> N in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>None</i>			



[illegible][illegible]



Marina: SWYC	Inspector: Annabelle	Marina Contact: Mark Percy	Date/Time: 12/22 8:30 am
-----------------	-------------------------	-------------------------------	-----------------------------

### Facility Check-In

Marina Manager Present?	Yes	<input checked="" type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="radio"/> No	Notes No manager, but list was available on check-in desk	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
None			

[illegible][illegible]



Marina: <i>La Playa Yacht</i>	Inspector: <i>Annabelle</i>	Marina Contact: <i>Frank</i>	Date/Time: <i>12/22 9:00 am</i>
----------------------------------	--------------------------------	---------------------------------	------------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes <i>Viewed dock from SWYC, Didn't check in w/ Frank</i>		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>No activity</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>None</i>			

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: SDYC	Inspector: Annabelle	Marina Contact:	Date/Time: 12/22 9:43 am
-----------------	-------------------------	-----------------	-----------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
Oscar R.	Omni	yes	G-E	Diver
Tomas	Omega	yes	F76	IWHC

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)			
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)			
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage	
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive	
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):		
	Illicit Discharge	Y	<input checked="" type="radio"/> N	Notes (Slip#):		
Weather:	<input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs:	Y <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
Sweet Karen		F76	Not at time of insp. Presented clearing before it began and requested to return documentation. Clearing was not performed on 12/22



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>SDYC</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>12/22 1:00 pm</i>
------------------------	--------------------------------	-----------------	------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes <i>No new divers since last visit (12/22 @ 9:43 am)</i>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>None</i>			

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>L. Tait</u>	Marina Contact: <u>Jack Fischetti</u>	Date/Time: <u>12/22/21 10:55am</u>
----------------------------	------------------------------	--	---------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Officer Cruz</u>	<u>Dirty Bottoms</u>	<u>Y</u>	<u>K22, A17</u>	<u>metals only</u>
<u>Adriano Cipriano</u>	<u>Shelter Island Diving</u>	<u>Y</u>	<u>C30</u>	<u>Zincs only</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input checked="" type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
OR Fail Cruz	Dirty Bottoms	Y	Y	No-metals only	N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Blue Moon	C 10	12/20 tag	may be topside tag
"	E 1	"	"
Blue Moon	H 42	12/21 tag	"
"	F 6	"	"
"	I 74	"	"



Marina: <u>Shelter Island</u>	Inspector: <u>K. Tair</u>	Marina Contact: <u>Nancy</u>	Date/Time: <u>12/22/01 12:03 pm</u>
----------------------------------	------------------------------	---------------------------------	--

**Facility Check-In**

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited
	Odors	Y	<input checked="" type="radio"/> N
	Illicit Discharge	Y	<input checked="" type="radio"/> N
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N
Actual Rainfall:			in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: <u>Silver Gate</u>	Inspector: <u>K. Tarr</u>	Marina Contact: <u>Jill - front office</u>	Date/Time: <u>12/22/1250 p</u>
----------------------------	---------------------------	--	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes <u>front office</u>		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

33

Marina: <i>Gold Coast</i>	Inspector: <i>K. Tait</i>	Marina Contact: <i>Catherine</i>	Date/Time: <i>12/22/21 1:30 pm</i>
------------------------------	------------------------------	-------------------------------------	---------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:                      in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Half Moon</u>	Inspector: <u>K. Tait</u>	Marina Contact: <u>Lani</u>	Date/Time: <u>12/22/21 1:05p</u>
--------------------------	---------------------------	-----------------------------	----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: <u>SWYC</u>	Inspector: <u>P. Borlov</u>	Marina Contact:	Date/Time: <u>12/23 - 0800</u>
---------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes <u>Before Open</u>		
Marina has current Authorized Diver List?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes <u>N/A</u>		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes <u>N/A</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input checked="" type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):		
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>			
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:                      in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>12/23 - 0915</u>
---------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes <u>None checked-in</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Half Moon</i>	Inspector: <i>P. Barton</i>	Marina Contact: <i>L. LoCoco</i>	Date/Time: <i>12/23 - 1030</i>
-----------------------------	--------------------------------	-------------------------------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes <i>None as of 1030</i>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input checked="" type="checkbox"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N		
Weather: <input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



Marina: <u>Bry Club</u>	Inspector: <u>P. Barrow</u>	Marina Contact: <u>S. Griffin</u>	Date/Time: <u>12/23 - 1100</u>
-------------------------	-----------------------------	-----------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input checked="" type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>12/23 - 1330</u>
-------------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<del>Yes</del> No	Notes		
Marina has current Authorized Diver List?	<del>Yes</del> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <del>No</del>	Notes <u>As of 1330</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<del>N</del>	Notes (Slip#):	
	Illicit Discharge	Y	<del>N</del>		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <del>N</del>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





40

Marina: <u>Kona Kai Marina</u>	Inspector: <u>K. Tali</u>	Marina Contact: <u>Jack F.</u>	Date/Time: <u>12/23/21 10:30am</u>
-----------------------------------	------------------------------	-----------------------------------	---------------------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input type="radio"/> None	<input checked="" type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
OFFALCruz	Dirty Bottoms	N	Y	Metals at I-39	N. But to s
					He s
					yest

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Shelter Island</u>	Inspector: <u>K. Tair</u>	Marina Contact: <u>Joe Rawich</u>	Date/Time: <u>12/23/21 11:45</u>
----------------------------------	------------------------------	--------------------------------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:                      in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

42

Marina: <u>Gold Coast</u>	Inspector: <u>K. Tait</u>	Marina Contact: <u>Katherine L.</u>	Date/Time: <u>12/23/21 1230P</u>
------------------------------	------------------------------	--	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:      in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>Crows Nest</u>	Inspector: <u>K. Tait</u>	Marina Contact: <u>Patricia</u>	Date/Time: <u>12/23/11 1245p</u>
------------------------------	------------------------------	------------------------------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	Yes	<input checked="" type="radio"/> No	Notes	
Marina has current Authorized Diver List?	Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs:	Y <input checked="" type="radio"/> N
				Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	

No new tags since last inspection



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

44

Marina: <u>Tonga Landing</u>	Inspector: <u>K. Tait</u>	Marina Contact: <u>Susan</u>	Date/Time: <u>12/23/21 12:50p</u>
---------------------------------	------------------------------	---------------------------------	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
No new activity since last inspection			



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Half Moon</u>	Inspector: <u>Garry</u>	Marina Contact: <u>L.L. Lacoco</u>	Date/Time: <u>12/24/21 10:20</u>
--------------------------	-------------------------	------------------------------------	----------------------------------

### Facility Check-In

Marina Manager Present?	Yes	<input checked="" type="radio"/> No	Notes	
Marina has current Authorized Diver List?	Yes	No	Notes <u>N/A (office closed)</u>	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes <u>N/A (office closed)</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input checked="" type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs:	Actual Rainfall: in.
				Y	N

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <i>Kona Kai</i>	Inspector: <i>P. Barton</i>	Marina Contact:	Date/Time: <i>12/29 - 0900</i>
----------------------------	--------------------------------	-----------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None <input type="radio"/> Trash	<input checked="" type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input checked="" type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#): <i>I-16 (Fou)</i>
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall: <i>1.7</i> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: <u>Bry Club</u>	Inspector: <u>P. Borow</u>	Marina Contact:	Date/Time: <u>12/24 - 1000</u>
-------------------------	----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<del>Yes</del> No	Notes		
Marina has current Authorized Diver List?	<del>Yes</del> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <del>No</del>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input checked="" type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input checked="" type="radio"/> Excessive
	Odors	Y	<del>N</del>	Notes (Slip#):	
	Illicit Discharge	Y	<del>N</del>		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: <del>Y</del> N	Actual Rainfall:	<u>1</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Borlin</u>	Marina Contact:	Date/Time: <u>12/24 - 1100</u>
---------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	<del>Yes</del>	No	Notes <u>checked in w/ Security</u>	
Divers currently checked in: (List names/companies in rows below)	<del>Yes</del>	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Verdugo</u>	<u>OMni</u>	<u>Y</u>		<u>Metal Parts</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input checked="" type="radio"/> Excessive
	Odors	<u>Y</u>	<u>N</u>	Notes (Slip#):	
	Illicit Discharge	<u>Y</u>	<u>N</u>		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>1</u> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact: <u>J. F. Shitti</u>	Date/Time: <u>12/26 - 1215</u>
-------------------------	-----------------------------	-------------------------------------	--------------------------------

## Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Notes <u>office closed</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

## General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam
	Vegetation	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Limited	<input type="checkbox"/> Normal
	Odors	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> Excessive
	Illicit Discharge	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Notes (Slip#):
Weather: <input checked="" type="checkbox"/> Sunny	<input type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall: <u>~1.5</u> in.

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

(Mido 6-25)



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Shelter Island</i>	Inspector: <i>P. Barton</i>	Marina Contact:	Date/Time: <i>12/26 - 1330</i>
----------------------------------	--------------------------------	-----------------	-----------------------------------

### Facility Check-In *Marina*

Marina Manager Present?	Yes	<input checked="" type="checkbox"/> No	Notes <i>Office Closed</i>	
Marina has current Authorized Diver List?	Yes	No	Notes <i>N/A</i>	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input checked="" type="checkbox"/> Busy (>50 people) <i>(America Boat)</i>	<input type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N		
Weather: <input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> N	Actual Rainfall:	<i>1.5</i> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: Bay Club	Inspector: P. Barlow	Marina Contact:	Date/Time: 12/26 - 1345
------------------	----------------------	-----------------	-------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables <input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation <input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors Y <input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge Y <input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: 1.5 in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>SWYC</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>12/26 - 1415</u>
---------------------	-----------------------------	-----------------	--------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation <input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors <input type="radio"/> Y <input checked="" type="radio"/> N	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge <input type="radio"/> Y <input checked="" type="radio"/> N	<input checked="" type="radio"/> N	Notes (Slip#):	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>1.5</u> in.		

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Berlow</u>	Marina Contact: <u>J. Fiebert</u>	Date/Time: <u>12/27 - 0900</u>
-------------------------	-----------------------------	-----------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Notes <u>Notes of 0900</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input checked="" type="checkbox"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input checked="" type="checkbox"/> Moderate (4-10 boats)	<input type="checkbox"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="checkbox"/> None	<input type="checkbox"/> Trash	<input checked="" type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	<input checked="" type="checkbox"/> X	N	Notes (Slip#): <u>(6-25) smell of gasoline, end of walkway</u>	
	Illicit Discharge	<input checked="" type="checkbox"/> X	N		
Weather: <input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> X	N	Actual Rainfall: <u>1.5</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SBYC</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>12/27 - 1015</u>
---------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<del>Yes</del> No	Notes		
Marina has current Authorized Diver List?	<del>Yes</del> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <del>No</del>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<del><input type="radio"/> Quiet (0-10 people)</del>	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<del><input type="radio"/> Quiet (0-3 boats)</del>	
Water Quality:	Floatables	<del><input type="radio"/> None</del> <input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<del><input type="radio"/> None</del> <input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <del>N</del>	Notes (Slip#):	
	Illicit Discharge	Y <del>N</del>		
Weather: <input type="radio"/> Sunny <del><input type="radio"/> Partly Cloudy</del> <input type="radio"/> Overcast	Rain last 72hrs: <del>Y</del> N	Actual Rainfall: <u>~1.5</u> in.		

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>Sky Club</u>	Inspector: <u>P. Barbier</u>	Marina Contact:	Date/Time: <u>12/27 1045</u>
-------------------------	------------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	<input type="radio"/> Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y <input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>~15</u> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SWYC</u>	Inspector: <u>P. Bortol</u>	Marina Contact:	Date/Time: <u>12/27 1130</u>
---------------------	-----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes <u>None at 1130</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall:	<u>Currently Raining</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Bold Coast</u>	Inspector: <u>P. Bortow</u>	Marina Contact:	Date/Time: <u>12/29-0830</u>
---------------------------	-----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	Yes	<del>No</del>	Notes	
Marina has current Authorized Diver List?	Yes	No	Notes <u>N/A offices closed</u>	
Divers currently checked in: (List names/companies in rows below)	Yes	<del>No</del>	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<del>N</del>	Notes (Slip#):	
	Illicit Discharge	Y	<del>N</del>		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: <del>Y</del> N	Actual Rainfall:	<u>~ 2</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>Half Moon</u>	Inspector: <u>P. Barclay</u>	Marina Contact:	Date/Time: <u>12/28-0915</u>
--------------------------	------------------------------	-----------------	------------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>12</u> in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

59

Marina: <u>SI Marina</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>12/28 - 1030</u>
--------------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Fabricio</u>	<u>Dirty Bottoms</u>	<u>No contact Vmz</u>	<u>112</u>	<u>Metal Pats</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	<input type="radio"/> Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y <input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>~ 2</u> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>12/20 - 1100</u>
-------------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<del>Yes</del> No	Notes		
Marina has current Authorized Diver List?	<del>Yes</del> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <del>No</del>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<del>N</del>	Notes (Slip#):	
	Illicit Discharge	Y	<del>N</del>		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: <del>Y</del> N	Actual Rainfall:	<u>~2</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Brown</u>	Marina Contact: <u>S. Johnson</u>	Date/Time: <u>2/28 - 1145</u>
---------------------	----------------------------	-----------------------------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Skylar</u>	<u>Executive Yacht Group</u>		<u>D-46</u>	<u>Zincs</u>
<u>Dave Root</u>	<u>Hulkcraft</u>		<u>E-100</u>	

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	<input type="radio"/> Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y <input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> X <input type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>E-54 (J-OK)</u>	<u>Stewart Lemon</u>	<u>E54</u>	<u>Yes</u>
<u>C-62</u>			
<u>E-101 (Blink!)</u>	<u>Steve Howell</u>	<u>E-101</u>	<u>Yes</u>



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

62

Marina: <i>La Playa</i>	Inspector: <i>Annabelle</i>	Marina Contact: <i>Frank</i>	Date/Time: <i>12/29 9:10am</i>
----------------------------	--------------------------------	---------------------------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>viewed dock from SWYC, no activity</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):		
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <i>0.24</i>	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

63

Marina: SWYC	Inspector: Annabelle	Marina Contact: Mark Pearcy	Date/Time: 12/29 9:00am
-----------------	-------------------------	--------------------------------	----------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	Rep at Front desk
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	No new divers since 12/15 checked in
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs:	Y N
				Actual Rainfall:	0.24 in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

## Receipt Tags observed on slips

Buisness	Slip #	Date		Name
Omni	D-51	12/28	Reason: Hull cleaning	Servstaf
Omni	D-47	12/27	Hull cleaning	Hang Loach
Omni	D-25	12/28	Hull cleaning	Wairus
Omni	D-20	12/26	Hull cleaning	
Omni	C-34	12/28	Hull cleaning	Hunter 376
Omni	C-5	12/27	Hull cleaning	Seavette
Omni	C-8	12/27	Hull cleaning	Amy Anne
Omni	B-15	12/28	Hull cleaning	Tegaila Sheila
Omni	A-10	12/28	Hull cleaning	CF# 1585 GP





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

64

Marina: SDYC	Inspector: Annabelle	Marina Contact:	Date/Time: 12/29 10:30am
--------------	----------------------	-----------------	--------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather:	<input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y	N
Actual Rainfall:				0.24	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

## Receipt Tags observed on slips

Buisness	Slip #	Date	name / CF #
Omni	F-28	12/23	CF # 5918 HJ
Omni	F-29	12/23	Due Regard
Omni	F-30	12/23	Trinity
Omni	F-54	12/23	Patriot
Omni	F-4	12/28	Boss Lady
Omni	E-101	12/28	Blink
Executive Yacht Management	E-80	12/28	Saga IV (noted "dive" could be for 2 hrs)
Omni	E-23	12/23	
Omni	C-62	12/28	Sanity (on non-copper list)
Executive Yacht Group	C-33	12/28	CF 2431 RT



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact: <u>J. Fischetti</u>	Date/Time: <u>12/30 - 0815</u>
-------------------------	-----------------------------	-------------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes <u>From yesterday</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Sustin</u>	<u>AmForce</u>	<u>Yes</u>	<u>K-Dock</u>	<u>Prop Pull</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> X	<input type="radio"/> N	Actual Rainfall: <u>~ 1</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Burlew</u>	Marina Contact:	Date/Time: <u>12/30 - 1000</u>
---------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	<del>Yes</del>	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<del>No</del>	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<del><input checked="" type="radio"/></del> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<del><input checked="" type="radio"/></del> Quiet (0-3 boats)		
Water Quality:	Floatables	<del><input checked="" type="radio"/></del> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<del><input checked="" type="radio"/></del> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<del>N</del>	Notes (Slip#):	
	Illicit Discharge	Y	<del>N</del>		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<del><input checked="" type="radio"/></del> Overcast	Rain last 72hrs: <del>Y</del> N	Actual Rainfall: <u>currently</u> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SW/C</u>	Inspector: <u>P.B. Row</u>	Marina Contact:	Date/Time: <u>12/30 - 1230</u>
---------------------	----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	<del>Yes</del> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input checked="" type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input checked="" type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> N	Actual Rainfall:	<u>1</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

None

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Executive Yacht	A-90	12/30	Black Fin "Dive"
" "	A-25	12/30	"Dive"
" "	A-12	12/30	" "
OMni	C-34	12/28	Marked Hull Cleaning but boat has visible Marine Growth



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Shelter Isl Marina</u>	Inspector: <u>K. Tair</u>	Marina Contact: <u>Nancy</u>	Date/Time: <u>12/30/21 10:15 a</u>
-----------------------------------	---------------------------	------------------------------	------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="radio"/> No	Notes <u>omni tags observed, signed in (took photo)</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>~2.5</u>	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Omni	104	12/29	hull looked dirty diver signed in
Dirty Bottoms	112	12/28	" "
Omni	207	12/29	"
Omni	325	12/29	"
Omni	312	12/29	"
Dirty Bottoms	15	12/28	"
Omni	406	12/29	"
Omni	418	12/29	"
Dirty Bottoms	428	12/28	"

Omni

432

12/29

"

Dirty Bottoms

401

12/28

"

Star

512

not dated





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Silvergate YC</i>	Inspector: <i>K. Tair</i>	Marina Contact: <i>Jill - Front Desk</i>	Date/Time: <i>12/30/21 11am</i>
---------------------------------	------------------------------	---	------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <i>~2.5 in.</i> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Bay Club</i>	Inspector: <i>K. Tait</i>	Marina Contact: <i>Shelley Giffin</i>	Date/Time: <i>12/30/21 11:30</i>
----------------------------	------------------------------	--	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes <i>one checking in as I left</i>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>Jesus Mendola</i>	<i>Explorer</i>	<i>Y</i>		<i>zincs only</i>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<i>Y</i>	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<i>Y</i>	<input checked="" type="radio"/> N		
Weather: <i>X</i> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <i>Y</i> N	Actual Rainfall:	<i>~2.5 in</i> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Gold Coast</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>12/31 - 0815</u>
---------------------------	-----------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes <u>N/A office closed</u>		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables <input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation <input type="radio"/> None <input checked="" type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):	
	Illicit Discharge Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>		
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall: <u>~.3</u> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact: <u>S. Johnson</u>	Date/Time: <u>12/31 - 0930</u>
---------------------	-----------------------------	-----------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Rafael Verdugo</u>	<u>Omni</u>	<u>Yes</u>	<u>CA-F-6-H</u>	<u>Metals</u>
<u>Alonso Vargas</u>	<u>Omni</u>	<u>Yes</u>	<u>CA-F-6-H</u>	<u>Metals</u>
<u>Dave</u>	<u>Hillcraft</u>	<u>Yes</u>	<u>E-100</u>	<u>EROxy Clean</u>
<u>Tom</u>	<u>OMega</u>	<u>Yes</u>	<u>F-76</u>	<u>Non-copper Hull Clean</u>

### General Observations

General Marina Activity:	<input checked="" type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input checked="" type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input type="checkbox"/> None	<input type="checkbox"/> Trash	<input checked="" type="checkbox"/> Foam
	Vegetation	<input type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal
	Odors	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Notes (Slip#):
	Illicit Discharge	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Weather: <input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall: <u>~.3</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>Sweet Karen</u>		<u>F-76</u>	<u>Yes</u>



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Tom	OMega	Yes	Yes	Yes, eFax on-airport	No
Rafael	Omni	Yes	Yes	No, H29 F-76	
Alonso	Omni	yes	Yes	No	

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SWYC</u>	Inspector: <u>P. Brow</u>	Marina Contact:	Date/Time: <u>12/31 - 1045</u>
---------------------	---------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Limited	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation <input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive	
	Odors <input type="radio"/> Y <input checked="" type="radio"/> N	<input type="radio"/> Notes (Slip#):		
	Illicit Discharge <input type="radio"/> Y <input checked="" type="radio"/> N			
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall:	<u>1.3</u> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SWYC</u>	Inspector: <u>T. Burlew</u>	Marina Contact:	Date/Time: <u>1/2 - 0930</u>
---------------------	-----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):		
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Brown</u>	Marina Contact: <u>S. Fischetti</u>	Date/Time: <u>1/2 - 0945</u>
-------------------------	----------------------------	-------------------------------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables <input type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation <input type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive	
	Odors Y <input type="radio"/> N <input type="radio"/>		Notes (Slip#):
	Illicit Discharge Y <input type="radio"/> N <input type="radio"/>		
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: Bay Club	Inspector: Shona Carey	Marina Contact: Shelby Griffin	Date/Time: Jan 3, 2022/11:16 AM
---------------------	---------------------------	-----------------------------------	------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Bordow</u>	Marina Contact:	Date/Time: <u>1/3 - 0910</u>
-------------------------	-----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	Yes	<input checked="" type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	No	Notes <u>Two diver waiting outside of office</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Hernandez</u>	<u>?</u>		<u>F-D</u>	<u>Metals</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> No	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> No		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> No	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Leonard Stetler	OMega		Y	No, Pre Maintenance	No
Adrian Capini	Shelter Island	Y	Y	No, Zone C-20	No
Oscar Rodriguez	OMni	Y	Y	No (I-25)	No

[illegible]



Marina: <i>Half Moon</i>	Inspector: <i>P. Brown</i>	Marina Contact:	Date/Time: <i>1/3 - 1130</i>
-----------------------------	-------------------------------	-----------------	---------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input checked="" type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>Martha Blue</i>		<i>A-215</i>	<i>Currently looking into, w/raf</i>

[illegible][illegible]



Marina: <u>SDYC</u>	Inspector: <u>P. Brown</u>	Marina Contact:	Date/Time: <u>1/3 - 1200</u>
---------------------	----------------------------	-----------------	------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>Miss Lorelie</u>		<u>C51</u>	<u>Yes</u>



[illegible][illegible]



Marina: <u>Shelter Island</u>	Inspector: <u>Shana Carey</u>	Marina Contact: <u>Jim Krawitch</u>	Date/Time: <u>1AM Jan 3 2022</u>
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall: _____ in.	

### Inspection Procedure Checklist

Checked in with Marina Manager?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes
Diver Name:	Dive Company	Authorized

### General Observations

General Marina Activity:	<input checked="" type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sheen
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive

~~Incomplete form - will not include~~

Scratch this, still including in total INSP count

1. The first part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The second part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The third part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The fourth part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The fifth part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The sixth part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The seventh part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The eighth part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The ninth part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries. The tenth part of the paper is a review of the literature on the effects of the 1997 Asian financial crisis on the economies of the Asian countries.



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

80

Marina: <u>Kona Kai</u>	Inspector: <u>L. Borlan</u>	Marina Contact: <u>J. Fischetti</u>	Date/Time: <u>1/1 - 0830</u>
-------------------------	-----------------------------	-------------------------------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None <input type="radio"/> Trash	<input checked="" type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input type="radio"/> Limited	<input checked="" type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="checkbox"/> Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector:	Marina Contact:	Date/Time: <u>1/4 - 1100</u>
---------------------	------------	-----------------	------------------------------

### Facility Check-in

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Rafael Verdugo</u>	<u>OMni</u>	<u>Y</u>	<u>EFL</u>	<u>Dive</u>
<u>Abasco Vargas</u>	<u>OMni</u>	<u>Y</u>	<u>EFL</u>	<u>Dive</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	<u>Y</u>	<u>N</u>
	Illicit Discharge	<u>Y</u>	<u>N</u>
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

82

Marina: <u>Shelter Island</u>	Inspector: <u>P. Brown</u>	Marina Contact: <u>J. Ravitch</u>	Date/Time: <u>1/4 - 0930</u> <u>- 1500</u>
----------------------------------	-------------------------------	--------------------------------------	--

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Anthony Echavez</u>	<u>Aquarius</u>	<u>Y</u>		<u>Zincs, thru holes</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Rona Kai</u>	Inspector: <u>P. Burlew</u>	Marina Contact:	Date/Time: <u>1/4 - 1400</u>
-------------------------	-----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="checkbox"/> Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

84

Marina: Bay Club	Inspector: P. Barlow	Marina Contact:	Date/Time: 1/4 - 1530
------------------	----------------------	-----------------	-----------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables <input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation <input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):	
	Illicit Discharge Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



85

Marina: SGYC	Inspector: Annabelle	Marina Contact: Celeste	Date/Time: 1/5 3:00 pm
-----------------	-------------------------	----------------------------	---------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
none				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <i>Bay Club</i>	Inspector: <i>Annabelle</i>	Marina Contact: <i>Shelley</i>	Date/Time: <i>2:35 pm</i> <i>1/5</i>
----------------------------	--------------------------------	-----------------------------------	---

**Facility Check-In**

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>none</i>				

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.	

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Shelter Island Marina</u>	Inspector: <u>Annabelle</u>	Marina Contact: <u>Joe</u>	Date/Time: <u>1/5 2:00 pm</u>
--------------------------------------	-----------------------------	----------------------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Anthony Echav's</u>	<u>Aquarius Yacht Services</u>	<u>yes</u>	<u>G1</u>	<u>Zincs</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<u>Y</u>	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<u>Y</u>	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u> <input checked="" type="radio"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Barker</u>	Marina Contact:	Date/Time: <u>1/6 - 0815 - 1245</u>
---------------------	-----------------------------	-----------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes <u>Security 2+ Present</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Anthony Echavez</u>	<u>Agurivus</u>	<u>Yes</u>		<u>Model cleaning</u>
<u>(1245) Tom Steien</u>	<u>Omega</u>	<u>Yes</u>	<u>F76</u>	<u>non-copper hull clean</u>
			<u>D-9</u>	

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables <input checked="" type="radio"/> None	Trash <input type="radio"/>	Foam <input type="radio"/>
	Vegetation <input checked="" type="radio"/> None	Limited <input type="radio"/>	Normal <input type="radio"/>
	Odors <input type="radio"/> Y <input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge <input type="radio"/> Y <input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>AEOLIS</u>		<u>E-15</u>	<u>? No, but owner took over to Bati Hi to clean himself</u>





# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Anthony Elmore	Aquarius	No	Yes	NO, Metals	No

## Receipt Tags observed on slips

Buisness	Slip #	Date	
STAR Marine	E-32 (68)	1/5	Hull Cleaning
" "	C-52	1/5	Partial Cleaning
	Aristomundo		
	A-2		
	Les Alas dor	1/5	Partial
	A-26	1/5	Partial



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>V. Bordeu</u>	Marina Contact: <u>J. Fischetti</u>	Date/Time: <u>1/6 - 1000</u>
-------------------------	-----------------------------	-------------------------------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Adriano C.	SI Diving		Yes	No, Met 15	No
				F-14	
				F-4	
				D-25	

[illegible]



Marina: <u>SI Marina</u>	Inspector: <u>P. Bobin</u>	Marina Contact:	Date/Time: <u>1/6 - 1115</u>
--------------------------	----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





APB 91

Marina: <u>SDYC</u>	Inspector:	Marina Contact:	Date/Time: <u>1/7 - 1000</u>
---------------------	------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	N	Notes (Slip#):	
	Illicit Discharge	Y	N		
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall: in.			

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>Bed Pak</u>	<u>M-H Smith</u>	<u>E34</u>	<u>Yes</u>

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: SDYC	Inspector: Shana Carey	Marina Contact: Steph Johnson	Date/Time: 1/7/2024 10 AM
-----------------	---------------------------	----------------------------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
Alonso Vargas	Omni	Y	B, C, D, E, F	Metal Cleaning
Raphael Verdugo	Omni	Y	B, C, D, E, F	Metal Cleaning
	Aquarius			
	Aqua Force			

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	N	Notes (Slip#):
	Illicit Discharge	Y	N	
Weather:	<input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
Bad Pak	Matt Smith	E34	Yes



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Alonso Vargas	Omni	Y	Y	No, metals partial	
Rafael Verdugo	Omni	Y	Y	No, metals partial	
Irving Flores	Aqua Force	Y	Y	Yes, <sup>non-copper</sup> approved	

[illegible]



Marina: <u>SWYC</u>	Inspector: <u>P. Berton</u>	Marina Contact:	Date/Time: <u>1/7 - 0900</u>
---------------------	-----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input checked="" type="radio"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/>	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/>		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>V. Bortow</u>	Marina Contact:	Date/Time: <u>1/7 - 1115</u>
-------------------------	-----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes <u>Marcelo called in</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <i>Shelter Island</i>	Inspector: <i>P. Brown</i>	Marina Contact:	Date/Time: <i>1/7- 1230</i>
----------------------------------	-------------------------------	-----------------	--------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Artisan Marina</i>	Inspector: <i>P. Berlin</i>	Marina Contact:	Date/Time: <i>1/8 - 0815</i>
----------------------------------	--------------------------------	-----------------	---------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="radio"/> None	Trash <input type="radio"/>	Foam <input type="radio"/>	Sewage <input type="radio"/>
	Vegetation <input checked="" type="radio"/> None	Limited <input type="radio"/>	Normal <input type="radio"/>	Excessive <input type="radio"/>
	Odors <input type="radio"/> Y <input checked="" type="radio"/> N	Notes (Slip#):		
	Illicit Discharge <input type="radio"/> Y <input checked="" type="radio"/> N			
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: in.		

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Nase					

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>St Marina</u>	Inspector: <u>P. Burton</u>	Marina Contact:	Date/Time: <u>1/8 - 0930</u>
--------------------------	-----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Kona Kai</i>	Inspector: <i>P. Bolen</i>	Marina Contact:	Date/Time: <i>1/8 - 1100</i>
----------------------------	-------------------------------	-----------------	---------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="checkbox"/> None <input type="checkbox"/> Trash	<input type="checkbox"/> Foam <input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None <input type="checkbox"/> Limited	<input type="checkbox"/> Normal <input type="checkbox"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N	
Weather: <input type="checkbox"/> Sunny <input checked="" type="checkbox"/> Partly Cloudy <input type="checkbox"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Bay Club</u>	Inspector: <u>P. Belin</u>	Marina Contact:	Date/Time: <u>1/8 - 0915</u>
-------------------------	----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall: in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Brown</u>	Marina Contact:	Date/Time: <u>1/9 - 0830</u>
---------------------	----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/>	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/>	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	N	Notes (Slip#):	
	Illicit Discharge	Y	N		
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall: in.			

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>Sentry</u>		<u>C-62</u>	<u>Yes</u>

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Brown</u>	Marina Contact:	Date/Time: <u>1/9 - 1000</u>
-------------------------	----------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="checkbox"/> None <input type="checkbox"/> Trash	<input type="checkbox"/> Foam <input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None <input type="checkbox"/> Limited	<input type="checkbox"/> Normal <input type="checkbox"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="checkbox"/> Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Lido Coast</u>	Inspector:	Marina Contact:	Date/Time: <u>1/10</u> - <u>1:30</u>
---------------------------	------------	-----------------	--------------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Kona Kai</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>1/18 - 1430</u>
-------------------------	-----------------------------	-----------------	-------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: <u>SDYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/11 - 0815</u>
---------------------	-----------------------------	-----------------	-------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Taylor Barnard</u>	<u>AquaForce</u>	<u>y</u>	<u>E-34?</u>	

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="radio"/> None	Trash <input type="radio"/>	Foam <input type="radio"/>	Sewage <input type="radio"/>
	Vegetation <input checked="" type="radio"/> None	Limited <input type="radio"/>	Normal <input type="radio"/>	Excessive <input type="radio"/>
	Odors <input type="radio"/> Y <input checked="" type="radio"/> N		Notes (Slip#):	
	Illicit Discharge <input type="radio"/> Y <input checked="" type="radio"/> N			
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.		

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Borker</u>	Marina Contact:	Date/Time: <u>1/11 - 0945</u>
-------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>buskro</u>	<u>West Coast</u>			<u>Zinc</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y N	Notes (Slip#):
	Illicit Discharge	Y N	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: Bay Club	Inspector: P. B. B. B.	Marina Contact:	Date/Time: 1/11 1230
------------------	------------------------	-----------------	----------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
Diego Silva	Hull Diving	<input checked="" type="checkbox"/>		

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	N	Notes (Slip#):	
	Illicit Discharge	Y	N		
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall: in.			

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>SGYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/11 - 1100</u>
---------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	N	Notes (Slip#):	
	Illicit Discharge	Y	N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <i>La Playa</i>	Inspector: <i>Annabelle</i>	Marina Contact: <i>Frank</i>	Date/Time: <i>1/11/22 1:55pm</i>
----------------------------	--------------------------------	---------------------------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: SWYC	Inspector: Annabelle	Marina Contact: Mark Percy	Date/Time: 1/11/22 1:45 pm
-----------------	-------------------------	-------------------------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
Anthony Raschick	Alpha One Diving	Yes	D-48, B-21, F-47, F-54, 31, 44, 31, A-92	619-721-8764 tony@alphaonediving.com Zincs

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Anthony Raschick	Alpha One Diving	yes	yes	No, Zincs. Asked about out drives. Will follow-up via email	No

## Receipt Tags observed on slips

Buisness	Slip #	Date	

Questions from Anthony:

SWYC - EN FUEGO, Glen Miller - D-48

\*info on out drives

SIM - Karen Sax - Sea 3

need info on non-copper paint. Was not observed clearing these boats, but asked on our list for future



Marina: <u>SDYC</u>	Inspector: <u>Annabelle</u>	Marina Contact:	Date/Time: <u>1/12/22 9:15 am</u>
------------------------	--------------------------------	-----------------	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall:                      in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: Kona Kai Inspector: Annabelle Marina Contact: Jack Date/Time: 1/12/22 10:35 am

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Bronson</u>	<u>Blue Horizon</u>	<u>No</u>	<u>G, H, C-F</u>	<u>Zincs, metals</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<u>Y</u>	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<u>Y</u>	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u>	<input checked="" type="radio"/> N	Actual Rainfall: <u> </u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible]

Written warning  
in the form of  
a letter was  
sent to Blue  
Horizon to provide  
authorization info

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Brown</u>	Marina Contact:	Date/Time: <u>1/13</u> <u>-0900</u>
-------------------------	----------------------------	-----------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



113

Marina: <u>SI Marina</u>	Inspector: <u>P. Brown</u>	Marina Contact:	Date/Time: <u>1/13 - 1015</u>
--------------------------	----------------------------	-----------------	-------------------------------

## Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes <u>Can't read writing</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Lina</u>	<u>Lina Diving (1/12 1:13)</u>	<u>Y</u>		<u>Zincs</u>
<u>Alan C.</u>	<u>Blue Horizon</u>	<u>Y</u>	<u>301</u>	<u>Zincs/Motors</u>

## General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input checked="" type="checkbox"/> Moderate (4-10 boats)	<input type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation <input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors <u>Y</u>	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge <u>Y</u>	<input checked="" type="checkbox"/> N		
Weather: <input type="checkbox"/> Sunny <input type="checkbox"/> Partly Cloudy <input checked="" type="checkbox"/> Overcast	Rain last 72hrs: <u>Y</u>	<input checked="" type="checkbox"/>	Actual Rainfall: _____ in.	

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Braker</u>	Marina Contact:	Date/Time: <u>1/13 - 1100</u>
---------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>SW/C</u>	Inspector: <u>P. Brink</u>	Marina Contact:	Date/Time: <u>1/13 - 1400</u>
---------------------	----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Branson K.</u>	<u>Blue Horizon</u>	<u>Y</u>	<u>ACOE</u>	<u>Metals</u>
<u>Alonso V.</u>	<u>OMNI</u>	<u>Y</u>	<u>ACDEF</u>	

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables <input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation <input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors <input type="radio"/> Y <input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge <input type="radio"/> Y <input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

116

Marina: <i>Tonga Landing 16 Pier</i>	Inspector: <i>IC Tait</i>	Marina Contact: <i>Susan</i>	Date/Time: <i>1/14/22 1025 am</i>
---	------------------------------	---------------------------------	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes <i>had check-in sheet</i>	
Marina has current Authorized Diver List?	<input type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>Pedro Reis</i>	<i>Dirty Bottoms</i>	<i>Y</i>	<i>multiple</i>	<i>zincs only</i>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<i>Y</i>	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<i>Y</i>	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <i>Y</i>	Actual Rainfall: <i>N</i> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <i>Crows Nest</i>	Inspector: <i>K. Tark</i>	Marina Contact: <i>Patricia - no there older</i>	Date/Time: <i>1/14/22 1035</i>
------------------------------	------------------------------	---	-----------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>older gentlemen</i>		
Marina has current Authorized Diver List?	Yes <input type="radio"/> No <input type="radio"/>	Notes <i>did not know</i>		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input type="radio"/>	Notes <i>did not know</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>Bay Club Marina</u>	Inspector: <u>K. Tait</u>	Marina Contact: <u>Anthony</u>	Date/Time: <u>1/14/22 1130</u>
-----------------------------------	------------------------------	-----------------------------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: <i>Silvergate</i>	Inspector: <i>K. Tait</i>	Marina Contact: <i>Celeste</i>	Date/Time: <i>1/14/22 11:20a</i>
------------------------------	------------------------------	-----------------------------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Shelter Is.	A18	1/4	growth on hull
Aquarius	A4	1/4	zinc repl.
Shelt Is	B14	1/5	metals ally ✓d
Shelt Is	B22	1/13	metals only
Aquarius	C6	1/6	
Star Marine	FS	No Date	
Aquarius	F11	1/6	metals
"	ES	1/6	"
Shelter Is.	E20	1/13	metals



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

120

Marina: <u>SIM</u>	Inspector: <u>R. Tait</u>	Marina Contact: <u>Nancy</u>	Date/Time: <u>1/14/21 12pm</u>
--------------------	---------------------------	------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes <u>earlier today</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Skylar Olsson</u>	<u>Executive Yacht</u>	<u>N</u>	<u>various</u>	<u>metals</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	<input type="radio"/> Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y <input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

121

Marina: <u>SDYC</u>	Inspector: <u>P. Brielow</u>	Marina Contact:	Date/Time: <u>1/16 - 0900</u>
---------------------	------------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input checked="" type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation <input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors <input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge <input type="checkbox"/> Y	<input checked="" type="checkbox"/> N		
Weather: <input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

122

Marina: <u>SWYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/16 1045</u>
---------------------	-----------------------------	-----------------	-----------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

123

Marina: <u>Bay Club</u>	Inspector: <u>P. Borlan</u>	Marina Contact:	Date/Time: <u>1/16 1130</u>
-------------------------	-----------------------------	-----------------	-----------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector:	Marina Contact:	Date/Time: <u>1/16 - 1200</u>
-------------------------	------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:                      in.			

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: Bay Club	Inspector: Rachael Smith	Marina Contact: Shelly Griffin	Date/Time: 1/17/22
---------------------	-----------------------------	-----------------------------------	-----------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None <input checked="" type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input type="radio"/> Limited	<input checked="" type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>1/17 - 0945</u>
-------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes <u>STAR called in</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	N	Notes (Slip#):	
	Illicit Discharge	Y	N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Shelter Island</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/17 - 1045</u>
-------------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Van Johnson</u>	<u>Dirty Bottoms</u>	<u>Yes</u>		<u>Mechs</u>
<u>Hunter Johnson</u>	<u>"</u>	<u>Yes</u>		<u>Mechs</u>
<u>Diego Silva</u>	<u>Hull Cleaning SD</u>	<u>Yes</u>		<u>noth/pins</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	<u>Y</u> <input type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<u>Y</u> <input type="radio"/> N	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: <u>Y</u> <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

128

Marina: <u>Half Moon</u>	Inspector: <u>P. Borlan</u>	Marina Contact:	Date/Time: <u>1/17 - 1200</u>
--------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>Mystic</u>	<u>Jeff Elliot</u>	<u>C-92</u>	<u>Yes</u>



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: SDYC	Inspector: P. Berlow	Marina Contact:	Date/Time: 1/18 - 0900
--------------	----------------------	-----------------	------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
Sam / Adriano	Western / PIM	Y	B-14	Zincs
Skylar	Exec Vacht Maintenance	No	Various	Metals

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)			
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)			
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage	
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive	
	Odors	Y	N	Notes (Slip#):		
	Illicit Discharge	Y	N			
Weather:	<input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs:	N	Actual Rainfall: ~ .15 in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Gold Coast</u>	Inspector: <u>J. Burton</u>	Marina Contact:	Date/Time: <u>1/18 - 1030</u>
---------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input checked="" type="checkbox"/> N	Actual Rainfall:	<u>~.15</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Nike					-

[illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

131

Marina: <u>Kona Kei</u>	Inspector: <u>P. Borlow</u>	Marina Contact:	Date/Time: <u>1/18 - 1115</u>
-------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input checked="" type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input checked="" type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input type="checkbox"/> None	<input checked="" type="checkbox"/> Trash	<input checked="" type="checkbox"/> Foam
	Vegetation	<input type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal
	Odors	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	<input type="checkbox"/> Excessive
	Illicit Discharge	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Notes (Slip#):
Weather: <input type="checkbox"/> Sunny	<input type="checkbox"/> Partly Cloudy	<input checked="" type="checkbox"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall: <u>~ .15</u> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/19 ~ 1125</u>
---------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Ron R.</u>	<u>STAR</u>	<u>Y</u>	<u>Various</u>	<u>Metals only</u>
<u>Miguel G.</u>	<u>"</u>	<u>Y</u>	<u>"</u>	<u>"</u>
<u>M. Gariss</u>	<u>DYC</u>	<u>Y</u>	<u>Various</u>	<u>Metals</u>
<u>Dive</u>	<u>Hullcraft</u>	<u>Y</u>	<u>E-100</u>	<u>Non-copper</u>

### General Observations

General Marina Activity:	<input checked="" type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input checked="" type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input type="checkbox"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	<u>Y</u>	<u>N</u>	Notes (Slip#):	
	Illicit Discharge	<u>Y</u>	<u>N</u>		
Weather: <input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall: <u>~.15</u> in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>SWYC</u>	Inspector: <u>P. Bohn</u>	Marina Contact:	Date/Time: <u>1/19 - 1300</u>
---------------------	---------------------------	-----------------	-------------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input checked="" type="checkbox"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="checkbox"/> None <input type="checkbox"/> Trash	<input type="checkbox"/> Foam <input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None <input type="checkbox"/> Limited	<input type="checkbox"/> Normal <input type="checkbox"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="checkbox"/> Sunny <input checked="" type="checkbox"/> Partly Cloudy <input type="checkbox"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall:	<u>2.15</u> in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

134

Marina: <u>Kona Kai</u>	Inspector: <u>Annabelle</u>	Marina Contact: <u>Adam Vercos</u>	Date/Time: <u>1/20/22 8:30am</u>
----------------------------	--------------------------------	---------------------------------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>None</u>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>~ 0.1</u>	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
none					

## Receipt Tags observed on slips

Buisness	Slip #	Date	
<del>Zincs/metals</del> Shelter Island Diving	B-24	1/6/22	hull appears dirty, Zincs = metals
	<del>FWA</del>	<del>XXXXXX</del>	
Omni	G-7	1/14/22	Zincs/metals, hull dirty
precision precision Diving inc	G-59	1/3/22	hull appears dirty
Shelter Island Diving Services	H-68	1/3/22	metals only, hull dirty
Shelter Island Diving Services	H-76	1/3/22	metals only, hull dirty



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

135

Marina: <i>SIM</i>	Inspector: <i>Annabelle</i>	Marina Contact: <i>Joe Raritch</i>	Date/Time: <i>1/20/22 9:57am</i>
-----------------------	--------------------------------	---------------------------------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>none</i>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):	
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <i>~0.1</i> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>none</i>			

[illegible][illegible]





136

Marina: <u>S6YC</u>	Inspector: <u>Annabelle</u>	Marina Contact: <u>Celeste Leginski</u>	Date/Time: <u>1/20/22 10:27am</u>
------------------------	--------------------------------	--	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>none</u>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N	Actual Rainfall: <u>no</u>	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>none</u>			

[illegible][illegible]



Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/20 - 1330</u>
----------------------------	--------------------------------	-----------------	----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input checked="" type="checkbox"/> Moderate (4-10 boats)	<input type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal
	Odors	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Notes (Slip#):
	Illicit Discharge	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Weather: <input checked="" type="checkbox"/> Sunny	<input type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>SL Marina</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>1/20 - 1445</u>
--------------------------	-----------------------------	-----------------	-------------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Oboac</u>	<u>OMni</u>	<u>Y</u>	<u>Various</u>	

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<u>Y</u>	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<u>Y</u>	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: Silver Gate	Inspector: P. Brown	Marina Contact:	Date/Time: 1/20 - 1530
---------------------	---------------------	-----------------	------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y	<input checked="" type="radio"/> N	Actual Rainfall: in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



140

Marina: <u>SWYC</u>	Inspector: <u>P. Borden</u>	Marina Contact:	Date/Time: <u>1/21 - 0830</u>
---------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes <u>Last check-in 11<sup>th</sup></u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>SDYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/21 - 1000</u>
---------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Dave Root</u>	<u>Hullcraft</u>	<u>Y</u>	<u>Deck work</u>	<u>Deck work</u>
<u>Michael</u>	<u>Aquarius</u>	<u>Y</u>	<u>A-9</u>	

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input checked="" type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input checked="" type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<u>Y</u>	<input checked="" type="radio"/>	Notes (Slip#):	
	Illicit Discharge	<u>Y</u>	<input checked="" type="radio"/>		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Kona Kei</u>	Inspector: <u>P. Barker</u>	Marina Contact:	Date/Time: <u>1/21 - 1130</u>
-------------------------	-----------------------------	-----------------	-------------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Notes <u>This AM</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Felipe Luths</u>	<u>Dockside Divers</u>	<u>Y</u>	<u>6-11</u>	<u>Zincs</u>
<u>Fabricio</u>	<u>Dirty Bottoms</u>	<u>Y</u>	<u>B5/641</u>	

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	<u>Y</u> <input type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<u>Y</u> <input type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u> <input type="radio"/> N	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





143

Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/22 0900</u>
-------------------------	-----------------------------	-----------------	-----------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="checkbox"/> None <input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None <input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):	
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>		
Weather: <input checked="" type="checkbox"/> Sunny <input type="checkbox"/> Partly Cloudy <input type="checkbox"/> Overcast	Rain last 72hrs: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:                      in.		

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



Marina: <u>SI Marina</u>	Inspector: <u>P. Borden</u>	Marina Contact:	Date/Time: <u>1/22 - 1030</u>
--------------------------	-----------------------------	-----------------	-------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<input type="radio"/> Sewage
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	<input type="radio"/> Excessive
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



145

Marina: <u>Bay Club</u>	Inspector: <u>ABrown</u>	Marina Contact:	Date/Time: <u>1/22 -1200</u>
-------------------------	--------------------------	-----------------	------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>Silver Lake</u>	Inspector: <u>P. Brown</u>	Marina Contact:	Date/Time: <u>1/22 - 1230</u>
----------------------------	----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables <input checked="" type="radio"/> None	Trash <input type="radio"/> Limited	Foam <input type="radio"/> Normal
	Vegetation <input checked="" type="radio"/> None	Odors <input checked="" type="radio"/> Y	Sewage <input type="radio"/> Excessive
	Illicit Discharge <input checked="" type="radio"/> Y		Notes (Slip#):
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y
			Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>SWYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/23 - 0900</u>
---------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

148

Marina: <u>SDYC</u>	Inspector: <u>P. Barber</u>	Marina Contact:	Date/Time: <u>1/23 1045</u>
---------------------	-----------------------------	-----------------	-----------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

149

Marina: <i>SDYC</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>1/24/22 1:26 pm</i>
------------------------	--------------------------------	-----------------	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<i>Security gate manager</i>	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>none</i>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)			
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)			
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage	
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive	
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):		
	Illicit Discharge	Y	<input checked="" type="radio"/> N			
Weather:	<input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs:	Y <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# Hull Cleaning Pause Inspection Form

Marina: <i>La Playa</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>1/24/22 12:40pm</i>
----------------------------	--------------------------------	-----------------	--------------------------------------

## Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>viewed dock from SWYC</i>		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>None</i>				

## General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>None</i>			

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

151

Marina: <u>SWYC</u>	Inspector: <u>Annabelle</u>	Marina Contact:	Date/Time: <u>1/24/22 12:30 pm</u>
---------------------	-----------------------------	-----------------	------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Victor Pallares</u>	<u>omni</u>	<u>Yes</u>	<u>C,B,D</u>	<u>Zincs only</u>
<u>Rafael Verdugo</u>	<u>Omni</u>	<u>Yes</u>	<u>C,B,D,E</u>	<u>Zincs only</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<u>Y</u>	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<u>Y</u>	<input checked="" type="radio"/> N	Notes (Slip#):	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u>	<input checked="" type="radio"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>none</u>			

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kei</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/24 - 1115</u>
-------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Burton</u>	Marina Contact:	Date/Time: <u>1/25 - 0945</u>
-------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Edel Coast</u>	Inspector: <u>P. Bordin</u>	Marina Contact:	Date/Time: <u>1/25 1145</u>
---------------------------	-----------------------------	-----------------	-----------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall:      in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



155

Marina: <u>Hill Moon</u>	Inspector: <u>P. Gordon</u>	Marina Contact:	Date/Time: <u>1/25 - 1100</u>
--------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



### Receipt Tags observed on slips

[illegible]





Marina: <i>Shelter Island</i>	Inspector: <i>P. Barton</i>	Marina Contact:	Date/Time: <i>1/25</i>
----------------------------------	--------------------------------	-----------------	---------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal
	Odors	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Notes (Slip#):
	Illicit Discharge	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	
Weather: <input checked="" type="checkbox"/> Sunny	<input type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>SDYC</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>1/26/22 1:41 pm</i>
------------------------	--------------------------------	-----------------	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>Anthony Echavez</i>	<i>Aquarius</i>	<i>Yes</i>	<i>C-52</i>	<i>Dive</i>
<i>Ruben Nunez</i>	<i>Pacific Marine Services</i>	<i>Yes</i>	<i>F</i>	<i>Dive</i>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: <i>N/A</i> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>none</i>			

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

158

Marina: <u>SWYC</u>	Inspector: <u>Annabelle</u>	Marina Contact:	Date/Time: <u>1/26/22 2:55 pm</u>
---------------------	-----------------------------	-----------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>None</u>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: <u>N/A</u>	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>None</u>			



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

159

Marina: <i>La Playa</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>1/26/22 3:00pm</i>
----------------------------	--------------------------------	-----------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>viewed from SWYC, no activity</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>none</i>			

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: Shelter Is. 11 Inspector: K. Tait Marina Contact: Joe Ravitch Date/Time: 1/26/22 12:00p

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	N	Notes (Slip#):	
	Illicit Discharge	Y	N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Omni	432	1/26			
Shelker Isl. Diving	504	1/10			

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Star	114	1/11	
Lighthouse	218	1/21	
Omni	207	1/26	
Omni	11	1/26	
Omni	312	1/26	
Omni	323	1/26	
Omni	325	1/26	
Omni	612	12/29	
Star	615	No Date	

Omni 408 1/26  
 Omni 418 1/26  
 Dirty Bottoms 928 No date





161

Marina: <u>Kona Kai</u>	Inspector: <u>K. Fair</u>	Marina Contact: <u>Adam Neves</u>	Date/Time: <u>1/26/22 10 a</u>
-------------------------	---------------------------	-----------------------------------	--------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
Alpha One	B12	1/18	Dirty Bottoms	G42	No Date
Shelter Isl Diving	B24	1/6	Pressley	G58	No date
Dirty Bottoms	I27	No date	Pressley	G59	1/3
Executive Yacht	I26	1/14			
Omni	I50	1/3			
Pressley	H14	No Date			
Shelter Isl Diving	H29	1/24			
Aquarius	H53	1/14			
Omni	G7	1/14			

Receipt Tags observed on slips

Buisness	Slip #	Date	
Star Marine	E37	1/7	
Precision Diving	E32	N/A	
Dirty Bottoms	F11	1/14	
Omni	F27	1/14	
Lighthouse	C24	1/21	
Alpha One	C35	1/18	
Lighthouse	C30	1/24	
Precision	C34	1/24	
E+E	D5	1/18	

Aquarius

Omni

Pressley

Pressley

B21 1/14

~~B18~~ A18 1/3

A20

No Date

A29

No Date



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/27 - 1200</u>
-------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input type="radio"/> Y	<input type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y	<input type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input type="radio"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Borlow</u>	Marina Contact:	Date/Time: <u>1/27 - 1000</u>
---------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:      in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Omni	F-54	1/25	Partial, observed growth
Sub Hoo	E-58	1/24	growth observed on hull
Omni	E-54	1/25	Hull cleaning, approved
Aquarius	C51	1/24	Hull cleaning, approved



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SWYC</u>	Inspector: <u>P. Below</u>	Marina Contact:	Date/Time: <u>1/27 - 0900</u>
---------------------	----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SGYC</u>	Inspector: <u>Annabelle</u>	Marina Contact:	Date/Time: <u>1/28/22 10:15am</u>
---------------------	-----------------------------	-----------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>none</u>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input checked="" type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input checked="" type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#): <u>bio film along eastern side of main dock - finger</u>	
	Illicit Discharge	Y	<input checked="" type="radio"/> N	Actual Rainfall: <u>N/A</u> in.	
Weather:	<input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast		

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>none</u>			

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>SIM</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>1/28/22 9:47am</i>
-----------------------	--------------------------------	-----------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>none</i>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>none</i>			



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
none					

## Receipt Tags observed on slips

Buisness	Slip #	Date	
none			

11e



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

167

Marina: <i>Kona Kai</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>1/28/22 8:50 am</i>
----------------------------	--------------------------------	-----------------	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>none</i>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input checked="" type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input checked="" type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#): <i>along eastern side of main finger, algae shed</i>	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	<i>N/A</i> in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>none</i>			

[illegible][illegible]



# Hull Cleaning Pause Inspection Form

★ 168

Marina: <u>Half Moon</u>	Inspector: <u>KH</u>	Marina Contact: <u>Lani</u>	Date/Time: <u>1/28</u> <u>1250</u>
-----------------------------	-------------------------	--------------------------------	---------------------------------------

## Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes <u>NO DIVERS TODAY</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

## General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N
Actual Rainfall:			in.

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





# Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
STAR MARINE	505	N/A	SIDE TIE MAR DOCK 4 100' from office
LIGHTHOUSE DIVING	last 127 slip	10/14	seemed like bad old tag - had twine
Presley / Western	123	1/14	
STAR MARINE	68	12/7	
Presley / Western	53	1/14	WILLY WONDER



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

\* 168

Marina: <u>Half Moon</u>	Inspector: <u>KTAT</u>	Marina Contact: <u>Lani</u>	Date/Time: <u>1/28/22 1250p</u>
--------------------------	------------------------	-----------------------------	---------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Sewage
	Illicit Discharge	<input type="radio"/> Y	<input type="radio"/> N	<input type="radio"/> Excessive
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input type="radio"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Executive Yacht Serv.	102	1/14	
Star Marine	33	No Date	
Executive Yacht	34	1/14	
E+E	29	1/18	
E+E	33	1/18	
Omni	360	1/15	



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: Bay Club	Inspector: KCH	Marina Contact: Shelley	Date/Time: 1/28 1:20
------------------	----------------	-------------------------	----------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes James (see Kelly's sheet)		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
SI DIVE SVC	A10	1/7	metals
Lighthouse	A end tie	1/27	metals
Hull Diving SD	A 9	12/15	
Agua Force	<del>A 10</del>	no DIVE	
Hull DIVING SD	A6	1/3	
HULL DIVING SD	I 7	12/12	
Lighthouse	3	1/27	metals
"	I 4	1/27	metals
Hull DIVING SD	I 1	12/12	

SI DIVE SVC 8 1/7 metals

SI DIVE SVC H8 1/7

by A 9/10  
SIDE TIE by A6





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

\*169

Marina: Bay Club	Inspector: K. Tait	Marina Contact: Shelley	Date/Time: 1/28/22 1200
------------------	--------------------	-------------------------	-------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
James Tonkins	Western Marine	Y	N/A	Zincs

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y N	Notes (Slip#):
	Illicit Discharge	Y N	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
James	Western Marine	Y	Y	No-Zincs	✓

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Light House	9	1/27	
Light House	7	1/27	
Light House	3	1/27	
Light House	4	1/27	
Light House	12	1/27	
Light house	1	1/27	Both slips labeled "1" at the very last dock out on bay
Light house	1	1/27	
Light house	20	1/27	



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector:	Marina Contact:	Date/Time: <u>1/29 - 1215</u>
---------------------	------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No	Notes <u>1/28 Last check-in</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Kona Kai</u>	Inspector: <u>T. Barlow</u>	Marina Contact:	Date/Time: <u>1/29 - 0815</u>
----------------------------	--------------------------------	-----------------	----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N		
Weather:	<input type="checkbox"/> Sunny	<input type="checkbox"/> Partly Cloudy	<input checked="" type="checkbox"/> Overcast	Rain last 72hrs: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



Hull Cleaning Pause Inspection Form

Marina: <u>SI Marina</u>	Inspector: <u>P. Bolton</u>	Marina Contact:	Date/Time: <u>1/29 - 1030</u>
--------------------------	-----------------------------	-----------------	-------------------------------

Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):		
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>			
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:                      in.			

Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



193

Marina: <u>Bay Club</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>1/29 - 1100</u>
-------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Half Moon</u>	Inspector: <u>P. Borlin</u>	Marina Contact:	Date/Time: <u>1/29</u>
--------------------------	-----------------------------	-----------------	------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SWYC</u>	Inspector: <u>E. Borden</u>	Marina Contact:	Date/Time: <u>1/30 - 1800</u>
---------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation <input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors <input type="radio"/> Y <input checked="" type="radio"/> N	<input checked="" type="radio"/> N	Notes (Slip#):	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>SDYC</u>	Inspector: <u>P. B. B. B.</u>	Marina Contact:	Date/Time: <u>1/30 - 0830</u>
------------------------	----------------------------------	-----------------	----------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input checked="" type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>H&amp;F Moon</u>	Inspector: <u>P. Bolton</u>	Marina Contact:	Date/Time: <u>1/31 - 1200</u>
-----------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Notes	
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables <input checked="" type="radio"/> None	Trash <input type="radio"/>	Foam <input type="radio"/>	Sewage <input type="radio"/>
	Vegetation <input checked="" type="radio"/> None	Limited <input type="radio"/>	Normal <input type="radio"/>	Excessive <input type="radio"/>
	Odors Y	N	Notes (Slip#):	
	Illicit Discharge Y	N		
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.		

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Bay Club</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>1/5/15 - 1115</u>
----------------------------	--------------------------------	-----------------	------------------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):	
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>		
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:                      in.		

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>Silver Lake</u>	Inspector: <u>P. Burton</u>	Marina Contact:	Date/Time: <u>1/31 - 1045</u>
----------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input type="checkbox"/> Moderate (10-50 people)	<input checked="" type="checkbox"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input type="checkbox"/> Moderate (4-10 boats)	<input checked="" type="checkbox"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam	<input type="checkbox"/> Sewage
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal	<input type="checkbox"/> Excessive
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N		
Weather: <input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall: _____ in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>St. Marcos</u>	Inspector: <u>P. Barton</u>	Marina Contact:	Date/Time: <u>1/31 1000</u>
---------------------------	-----------------------------	-----------------	-----------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes <u>Last check in 1/28</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input checked="" type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>1/31 - 0845</u>
-------------------------	-----------------------------	-----------------	-------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Adriano</u>	<u>Western Marine</u>	<u>Y</u>	<u>6-59/H58</u>	<u>Zincs/ Metals</u>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
Weather: <input type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.		

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>Annabelle</u>	Marina Contact:	Date/Time: <u>2/1/22 9:15 am</u>
---------------------	-----------------------------	-----------------	----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>None</u>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>None</u>			

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>SWYC</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>2/1/22 10:20 am</i>
------------------------	--------------------------------	-----------------	--------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes <i>V.ctor checked in after 10:20 am</i>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>None</i>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N		
Weather: <input type="radio"/> Sunny	<input checked="" type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>None</i>			

[illegible][illegible]





180

Marina: <u>La Playa</u>	Inspector: <u>Annabelle</u>	Marina Contact:	Date/Time: <u>2/1/22 10:25am</u>
----------------------------	--------------------------------	-----------------	-------------------------------------

### Facility Check

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <u>viewed from SWYC</u>		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input type="radio"/> Sunny <input checked="" type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SIM</u>	Inspector: <u>Annabelle</u>	Marina Contact:	Date/Time: <u>2/2/22 1:13 pm</u>
-----------------------	--------------------------------	-----------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Ray Garcia</u>	<u>RnR?</u>	<u>no</u>	<u>600</u>	

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>none</u>			

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <i>Kona Kai</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>2/2/22 12:15pm</i>
----------------------------	--------------------------------	-----------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="radio"/> Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<i>Rafael Verdugo</i>	<i>Omni</i>	<i>Yes</i>	<i>C-G-F</i>	<i>Dive</i>
<i>Alonso Vargas</i>	<i>Omni</i>	<i>Yes</i>	<i>C-G-F</i>	<i>Dive</i>

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<i>Y</i>	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<i>Y</i>	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <i>Y</i> <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>None</i>			



[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

Marina: <u>SWYC</u>	Inspector: <u>Annabelle</u>	Marina Contact:	Date/Time: <u>2/3/22 8:20 am</u>
---------------------	-----------------------------	-----------------	----------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <u>Arrived before marina opened</u>		
Marina has current Authorized Diver List?	Yes <input checked="" type="radio"/> No <input type="radio"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>None</u>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):		
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>			
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<u>None</u>			

[illegible][illegible]



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

184

Marina: <i>La Playa</i>	Inspector: <i>Annabelle</i>	Marina Contact:	Date/Time: <i>2/3/22 8:30 am</i>
----------------------------	--------------------------------	-----------------	-------------------------------------

### Facility Check-In

Marina Manager Present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <i>viewed dock from SWYC</i>		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N
<i>none</i>			

[illegible][illegible]





Marina: SDYC	Inspector: Annabelle	Marina Contact:	Date/Time: 2/3/22 9:13 am
--------------	----------------------	-----------------	---------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
None				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
none					

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Omni	G-50	2/1/22	Zincs, hull appears dirty
Omni	F-71	2/1/22	Zincs, " "
Omni	F-66	2/1/22	" "
Omni	E-101	2/1/22	Blink! Hull cleaning non-copper verified
Omni	G-62	2/1/22	Sanity Hull cleaning non-copper verified



# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

186

Marina: <u>SWYC</u>	Inspector: <u>CH</u>	Marina Contact: <u>FRONT DESK</u>	Date/Time: <u>2/5 10:45</u>
---------------------	----------------------	-----------------------------------	-----------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Notes <u>NO ACTIVITY SINCE 2/21</u>		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="radio"/> No <input checked="" type="radio"/>	Notes <u>↑</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None <input type="radio"/> Trash	<input checked="" type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input type="radio"/> N <input checked="" type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input type="radio"/> N <input checked="" type="radio"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input type="radio"/> N <input checked="" type="radio"/>	Actual Rainfall:	in.

Along E Dock looked organic

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>SDYC</u>	Inspector: <u>KH</u>	Marina Contact:	Date/Time: <u>2/5 0915</u>
---------------------	----------------------	-----------------	----------------------------

### Facility Check-In

Marina Manager Present?	Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	No	<u>checked at gate</u>	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="radio"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input checked="" type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

Lots of people using boats today  
Many ~~the~~ setting out while I was there  
In sailing event starting too





# Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Star Marine	H-12	<del>NO DATE</del> ON TAG	
Sub H <sub>2</sub> O	H-37	<del>NO DATE</del> 1/21	ON DIVE, NO DETAILS RE TYPE OF CLEANING
Sub H <sub>2</sub> O	H-18	2/4	Hull looks very clean
Omega	F-76	2/4	Tag looks old - 12/4?
Omni	F-71	2/1	Hull had fouling
Omni	F-66	2/1	Noted partial cleaning
BLUE MOON	F-13	2/4	Hull looks clean
Star Marine	E-32	NO DATE	Hard to tell, seems re fouling - OK
Star Marine	E-87	NO DATE	Hull had fouling
BLUE MOON	D-40	2/2	"

Marina: <u>SGYC</u>	Inspector: <u>KA</u>	Marina Contact: <u>Lanny</u>	Date/Time: <u>2/6 1045</u>
---------------------	----------------------	------------------------------	----------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes
Divers currently checked in: (List names/companies in rows below)	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Notes: <u>No Weekend Activity</u>
Diver Name:	Dive Company	Authorized	Slips Visited
<u>NO</u>	<u>DIVERS SINCE</u>	<u>2/3</u>	

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited
	Odors	<input type="radio"/> Y	<input checked="" type="radio"/> N
	Illicit Discharge	<input type="radio"/> Y	<input checked="" type="radio"/> N
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input type="radio"/> Y <input checked="" type="radio"/> N
			Actual Rainfall: <u>5.0 in / 0.1 in</u> <u>Large along E-Dock (old side)</u>

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Shelter Island</u>	Inspector: <u>KBA</u>	Marina Contact: <u>Nancy</u>	Date/Time: <u>2/6 1001</u>
-------------------------------	-----------------------	------------------------------	----------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="radio"/> No	Notes <u>No Active on Island</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>NONE DURING WEEKEND</u>				

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input type="radio"/> None	<input type="radio"/> Trash	<input checked="" type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input type="radio"/> None	<input checked="" type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#): <u>from along shoreline slips</u>	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]





# PORT of SAN DIEGO

## Hull Cleaning Pause Inspection Form

190

Marina: <u>Kona Kai</u>	Inspector: <u>KH</u>	Marina Contact: <u>Jack</u>	Date/Time: <u>2/6 9:50</u>
-------------------------	----------------------	-----------------------------	----------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="radio"/> No	Notes <u>NO divers since 2/5/22</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y N	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



## Hull Cleaning Pause Inspection Form

Marina: <u>SDYC</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>2/7 - 0845</u>
---------------------	-----------------------------	-----------------	------------------------------

## Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes <u>Last check-in 2/4</u>	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

## General Observations

General Marina Activity:	<input type="checkbox"/> Busy (>50 people)	<input checked="" type="checkbox"/> Moderate (10-50 people)	<input type="checkbox"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="checkbox"/> Busy (>10 boats)	<input checked="" type="checkbox"/> Moderate (4-10 boats)	<input type="checkbox"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Trash	<input type="checkbox"/> Foam
	Vegetation	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Limited	<input type="checkbox"/> Normal
	Odors	Y	<input checked="" type="checkbox"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="checkbox"/> N	
Weather: <input checked="" type="checkbox"/> Sunny	<input type="checkbox"/> Partly Cloudy	<input type="checkbox"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N	Actual Rainfall: in.

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



## Hull Cleaning Pause Inspection Form

Marina: <i>Crows</i>	Inspector: <i>P. Barton</i>	Marina Contact:	Date/Time: <i>2/7 - 1100</i>
-------------------------	--------------------------------	-----------------	---------------------------------

## Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes <i>Office closed, door open</i>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

## General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]



204

Marina: <u>Bold Coast</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>2/7</u> <u>1145</u>
---------------------------	-----------------------------	-----------------	-----------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	N	Notes (Slip#):	
	Illicit Discharge	Y	N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/>	Actual Rainfall:                      in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Long Landing</u>	Inspector: <u>P. Bator</u>	Marina Contact:	Date/Time: <u>2/7 - 1130</u>
--------------------------------	-------------------------------	-----------------	---------------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]





Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>2/7-1235</u>
-------------------------	-----------------------------	-----------------	----------------------------

### Facility Check-In

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes <u>Office closed</u>		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input checked="" type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



## Hull Cleaning Pause Inspection Form

Marina: Bay Club	Inspector:	Marina Contact: P. Barlow	Date/Time: 2/7
------------------	------------	---------------------------	----------------

## Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

## General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: in.	

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



## Hull Cleaning Pause Inspection Form

Marina: <u>SI Marina</u>	Inspector: <u>P. Burton</u>	Marina Contact:	Date/Time: <u>2/8 1015</u>
--------------------------	-----------------------------	-----------------	----------------------------

## Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input checked="" type="checkbox"/> Yes	No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Adriano</u>	<u>PPD</u>	<u>Y</u>		<u>Zincs</u>

## General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	<u>Y</u>	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	<u>Y</u>	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <u>Y</u>	<input checked="" type="radio"/> N	Actual Rainfall: in.

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]

✓



## Hull Cleaning Pause Inspection Form

Marina: <u>Kona Kai</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>2/8 - 0900</u>
----------------------------	--------------------------------	-----------------	---------------------------------

## Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

## General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input checked="" type="radio"/> Moderate (4-10 boats)	<input type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: _____ in.

## Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



Marina: <u>SWYC</u>	Inspector: <u>P. Barton</u>	Marina Contact: _____	Date/Time: <u>2/8 - 1300</u>
---------------------	-----------------------------	-----------------------	------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose
<u>Vick</u>	<u>Opni</u>	<u>y</u>	<u>A-D</u>	<u>Zincs</u>

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	<input checked="" type="radio"/> Y <input type="radio"/> N	Notes (Slip#):
	Illicit Discharge	<input checked="" type="radio"/> Y <input type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: <input checked="" type="radio"/> Y <input type="radio"/> N
			Actual Rainfall: _____ in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>Silver Gate</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>2/8- 1130</u>
----------------------------	-----------------------------	-----------------	-----------------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:      in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



195

Marina: <u>Tongue</u>	Inspector: <u>P. Below</u>	Marina Contact:	Date/Time: <u>2/9-630</u>
--------------------------	-------------------------------	-----------------	------------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)	
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)	
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):
	Illicit Discharge	Y	<input checked="" type="radio"/> N	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall: in.

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>Gold Coast</u>	Inspector:	Marina Contact: <u>P. Berkow</u>	Date/Time: <u>2/9 - 1215</u>
------------------------------	------------	-------------------------------------	---------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N





Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



Marina: <u>H&amp;F Moon</u>	Inspector: <u>P. Borkow</u>	Marina Contact:	Date/Time: <u>2/9</u>
-----------------------------	-----------------------------	-----------------	-----------------------

**Facility Check-In**

Marina Manager Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="radio"/> N <input type="radio"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="radio"/> N <input type="radio"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N <input type="radio"/>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]



Marina: <u>B.Y. Club</u>	Inspector: <u>P. Bohan</u>	Marina Contact:	Date/Time: <u>2/9 1045</u>
--------------------------	----------------------------	-----------------	----------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:      in.	

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N

[illegible][illegible]





Marina: <u>SDYC</u>	Inspector: <u>P. Beron / J. Stefan</u>	Marina Contact:	Date/Time: <u>2/9 - 0800</u>
---------------------	--	-----------------	------------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input type="checkbox"/> No <input type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



# PORT of SAN DIEGO

## Field Observations of Diver Activity

Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

## Receipt Tags observed on slips

Buisness	Slip #	Date	
Omni	A-16	2/8	Partial cleaning
	A-17		
Omni	A-36	2/7	Partial cleaning



Marina: <u>Kona Kai</u>	Inspector: <u>P. Berlow</u>	Marina Contact:	Date/Time: <u>2/9 09:15</u>
-------------------------	-----------------------------	-----------------	-----------------------------

### Facility Check-In

Marina Manager Present?	<input checked="" type="checkbox"/> Yes	No	Notes	
Marina has current Authorized Diver List?	<input checked="" type="checkbox"/> Yes	No	Notes	
Divers currently checked in: (List names/companies in rows below)	Yes	<input checked="" type="checkbox"/> No	Notes	
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

### General Observations

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input type="radio"/> Moderate (10-50 people)	<input checked="" type="radio"/> Quiet (0-10 people)		
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)		
Water Quality:	Floatables	<input checked="" type="radio"/> None	<input type="radio"/> Trash	<input type="radio"/> Foam	<input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None	<input type="radio"/> Limited	<input type="radio"/> Normal	<input type="radio"/> Excessive
	Odors	Y	<input checked="" type="radio"/> N	Notes (Slip#):	
	Illicit Discharge	Y	<input checked="" type="radio"/> N		
Weather: <input checked="" type="radio"/> Sunny	<input type="radio"/> Partly Cloudy	<input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="radio"/> N	Actual Rainfall:      in.	

### Vessels Identified with Non-Copper Paint

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



Diver	Company	Checked-In?	Authorized Y/N	Conducting IWHC? If no, what is reason for service?	Citation Issued? Y/N
None					

[illegible]



Marina: <u>ST Marina</u>	Inspector: <u>P. Barlow</u>	Marina Contact:	Date/Time: <u>2/9 1300</u>
--------------------------	-----------------------------	-----------------	----------------------------

**Facility Check-In**

Marina Manager Present?	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Marina has current Authorized Diver List?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes		
Divers currently checked in: (List names/companies in rows below)	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Notes		
Diver Name:	Dive Company	Authorized	Slips Visited	Stated Purpose

**General Observations**

General Marina Activity:	<input type="radio"/> Busy (>50 people)	<input checked="" type="radio"/> Moderate (10-50 people)	<input type="radio"/> Quiet (0-10 people)
Topside boat maintenance activities:	<input type="radio"/> Busy (>10 boats)	<input type="radio"/> Moderate (4-10 boats)	<input checked="" type="radio"/> Quiet (0-3 boats)
Water Quality:	Floatables	<input checked="" type="radio"/> None <input type="radio"/> Trash	<input type="radio"/> Foam <input type="radio"/> Sewage
	Vegetation	<input checked="" type="radio"/> None <input type="radio"/> Limited	<input type="radio"/> Normal <input type="radio"/> Excessive
	Odors	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Notes (Slip#):
	Illicit Discharge	Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	
Weather: <input checked="" type="radio"/> Sunny <input type="radio"/> Partly Cloudy <input type="radio"/> Overcast	Rain last 72hrs: Y <input checked="" type="checkbox"/> N <input checked="" type="checkbox"/>	Actual Rainfall:	in.

**Vessels Identified with Non-Copper Paint**

Vessel Name	Owner	Slip#	Paint Info Verified? Y/N



[illegible][illegible]

**APPENDIX B**

**WATER QUALITY MONITORING FIELD DATA SHEETS  
AND QA CHECKLISTS**

## **WATER QUALITY MONITORING FIELD DATA SHEETS**

Week 1

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 11/22/21

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy, mostly sunny

Surface Water Conditions: calm, no wind @ start

General Observations/Notes: recently documented moderate red tide event

Station ID	Sample Time	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-REF-2-W1	0745	16.1	34.17	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	sunny, calm
C-REF-1-W1	0815	16.0	34.17	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	partly cloudy, calm
C-12/SYB-5-W1	0835	16.9	34.28	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	partly cloudy, calm
C-10-W1	0855	17.0	34.23	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	partly cloudy, calm. Floatable debris/sheen observed ~100-150m from sample location
C-11-W1	0910	16.8	34.22	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	partly cloudy, calm. Floatable debris/sheen observed on surface at sample location (see photo.) Vis ~5ft MS/MSD sample
C-11-DUP-W1	0925	16.8	34.24	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	same notes as above. Separate grab for field duplicate
C-9-W1	0940	17.0	34.27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Some floatable debris/sheen observed on surface at sample location. Vis ~6-7ft. May be organic

Week 1

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 11/22/21

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy / mostly sunny, calm

Surface Water Conditions: calm, no wind

General Observations/Notes:

Station ID	Sample Time	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-8-W1	0955	17.1	34.24	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Some floatable debris / green in water (maybe organic) <del>also</del> on surface at sample location.
C-7-W1	1010	17.3	34.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside cleaning observed ~50m SE of sampling location. vis ~10ft.
C-5-W1	1025	17.2	34.28	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Vis ~8ft.
C-1-W1	1045	17.3	34.29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Vis ~4-5ft.
				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



Week 1

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 11/22/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: mostly sunny, light breeze, no rain in prior 2 weeks

Surface Water Conditions: calm, lots of debris/plankton in water; ~10 ft visibility

General Observations/Notes: recently documented red tide event

Station ID	Sample Time	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0730	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Field blank collected at transient dock
ER	0745	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Equipment rinse collected at transient dock
C-13	0805	16.8	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Calm, moderate debris in water on surface, appears to be an algal bloom
C-6	0910	17.2	33.8	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Calm, moderate debris in water on surface, appears to be an algal bloom; collected from corner of dock near S1XB-2
C-4	0945	17.3	33.9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Calm, moderate debris/plankton on surface
C-3	1025	17.5	34.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Calm, minimal debris/plankton
C-2	1105	17.5	33.9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Calm, moderate debris on surface

Week 2

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 11/30/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: foggy, calm early. cleaning & mostly sunny by 0900.

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-Ref-2	0755	16.4	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Viz - 17'
C-Ref-1	0810	16.3	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Viz - 18'
E20-W2	0830	16.7	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Viz - 17'
C-12-W2	0840	16.7	33.4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Viz - 17' Topside cleaning observed ~40m SSE
E-19	0855	16.7	33.4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Viz - 10'
C-10	0905	16.8	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Viz - 12' Some film on surface
C-11	0917	16.7	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Viz - 4' - 4.5' Slight sheen on surface, may be dust (see photo)

Week 2

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDYSample Date: 11/30/2021☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)Weather Conditions: foggy, calm early. clearing + mostly sunny by 0900.Surface Water Conditions: mostly calm

General Observations/Notes:

Station ID	Sample Time	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-9	0935	16.9	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	ViZ - 9'
C-8	0945	16.9	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	ViZ - 11'
C-7	0955	16.9	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No* If yes, note approximate distance and direction from site in "Site Observations."	ViZ - 13' * Hull cleaner observed driving vessel to SDYC (see photo)
E-17	1007	17.0	33.7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	ViZ - 11' Topside cleaning/maintenance observed ~70m S. + ~10m N
C-5	1018	17.0	33.7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	ViZ - 11' Topside cleaning/maintenance observed ~20m NE + 40m E + ~12m E
C-1	1030	17.0	33.8	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No* If yes, note approximate distance and direction from site in "Site Observations."	ViZ - 7.5' * Hull cleaner observed ~100m N, no cleaning observed during sampling. Topside cleaning (washing) ~70m NW
				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 2

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 11/30/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: overcast + slightly foggy in morning; clouds + fog burned off by 0900; sunny + light breeze

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0740	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Field blank collected @ transient dock
N8-ER	0750	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Equipment rinse collected @ transient dock
C-13	0815	16.4	34.22	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>10'2"</u>
E-18	0915	16.7	34.27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>11'10"</u> Minimal debris on surface Extra volume collected for MS/MSD
E-18-Dup	0930	16.7	34.27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>11'10"</u> Separate grab collected from site E-18 for field duplicate
C-6	0945	16.7	34.25	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>hit bottom @ 14'2"</u> Topside maintenance ~ 75 yards S + 50 yards NE
E-16	1020	16.9	34.29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>10'8"</u> Topside maintenance ~ 25 yds E

Week 2

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 11/30/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny + clear in afternoon; light breeze; wind picked up @ 1130 (~5-10mph)

Surface Water Conditions: calm, clear; surface ripples when wind picked up ~1130

General Observations/Notes:

Station ID	Sample Time	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-4	1040	16.8	34.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>11' 6"</u>
E-15	1115	17.0	34.35	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>10' 6"</u> IWHC ~75 yds NE + ~75 yds W (miss Daniel) Topside <sup>cleaning</sup> maintenance ~25 yds E
C-3	1135	17.2	34.26	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>9' 0"</u> Topside cleaning/ maintenance ~40 yds NE
E-14	1210	17.0	34.27	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>6' 6"</u> IWHC ~60-70 yds NNW Topside maintenance ~10 yds S + ~50 yds W
C-2	1230	17.2	34.32	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Visibility: <u>8' 6"</u> Topside maintenance ~30 yds ESE
				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



Week 3

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/7/21

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: overcast, breezy (0800). Light rain beginning @ 0930

Surface Water Conditions: surface texture

General Observations/Notes: WQ meter calibrated @ 0755 w/ 50,000 mg/cm standard, compared to PRODSS #2. At transient dock, meters compared. PRODSS #1: 33.3 ppt PRODSS #2: ~~34~~<sup>KB</sup> 33.5 ppt

Station ID	Sample Time	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
CREF2	0815	15.8	33.4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	VIS - 18'10" cloudy, breezy
CREF1	0830	15.8	33.4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	VIS - 20'
C-12	0845	16.2	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	VIS - 13'
C-10	0905	16.3	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	VIS - 9'10" extra volume for ms/msd
C-10 DUP	0915	16.3	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	VIS - 9'10" separate grab collected for duplicate
C-11	0935	16.2	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	light rain VIS ~ 6'
C-9	0945	16.2	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	light rain filter light brown VIS ~ 9' see photo

Week 3

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/7/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: cloudy, light rain, light breeze (S-blts S)

Surface Water Conditions: light texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-0	10:00	9'	16.3	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Vis ~ 9' Light rain
C-7	10:15	12'	16.3	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Light rain One pump-out boat observed → SDYC, one to SWYC
C-5	10:25	8'	16.3	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Light rain
C-1	10:40	5.5'	16.4	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Light rain slightly dark filter
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 3

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/07/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: overcast + breezy; light rain starting at 0930

Surface Water Conditions: small ripples

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0810	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected at transient dock
N3-ER	0825	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected at transient dock
C-13	0850	14'0"	16.0	33.23	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	hauling out + draining sunken dinghy at Harbor Police Dock
C-6	0925	11'6"	16.4	33.32	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	oil slick on surface near sampling location (see photo); light rain during sampling; topside cleaning & maintenance ~ 50yds SW; recent topside cleaning ~ 10yds SE (soap water)
C-4	1000	8'7"	16.4	33.26	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	light rain during sampling
C-3	1030	6'3"	16.5	33.34	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	light rain during sampling
C-2	1100	5'2"	16.5	33.28	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	light rain during sampling; IWHC ~ 20yds S

Week 4

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/13/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: cloudy, calm

Surface Water Conditions: light texture

General Observations/Notes: pre-storm sampling

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
CREF2	0905	19'	15.6	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Observed hull cleaner departing transient dock @ ~0855
CREF1	0920	20'	15.6	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E20	0940	14'	15.6	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	1) deck cleaning 50' west of site + 2) rising bolt 75' SE of site extra volume for MS/MSD
E20 DUP	0945	14'	15.6	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	see above separate grab for duplicate
C-12	1005	11.5'	15.6	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	2 hull cleaners observed on dock @ 1000 in water @ 1010 200' south of site
E-19	1025	6.5'	15.5	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Sheen observed on <del>water</del> surface, some organic debris
C-10	1030	8.0'	15.6	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside cleaning/maintenance ~20 yds N of sampling location

Week 4

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDYSample Date: 12/13/01☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)Weather Conditions: calm, cloudy, overcastSurface Water Conditions: calmGeneral Observations/Notes: pre-storm sampling

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-11	1050	7.0'	15.4	34.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-9	1100	9.0'	15.6	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-8	1115	8.0'	15.6	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-7	1130	9.0'	15.7	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-17	1140	8.0'	15.7	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5	1150	7.5'	15.7	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-1	1210	6.0'	15.7	34.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	boat maintenance, topside 50' SW of site



PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Week 4

Sample Date: 12/13/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: overcast, light breeze

Surface Water Conditions: calm

General Observations/Notes: pre-storm sampling

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0840	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N8-ER	0855	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0920	10'10"	15.7	34.25	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-18	0950	8'6"	15.8	34.20	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	1005	11'5"	15.8	34.25	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	hose leaking ~ 10yds from sampling location (maybe freshwater)
E-16	1030	4'7"	15.6	34.26	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some debris on surface; relatively low visibility
C-4	1045	6'4"	15.8	34.25	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 4

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/13/2021

☒ Pre-IWHC Pause (4 weeks)   ☐ IWHC Pause (8 weeks)   ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: overcast, light breeze

Surface Water Conditions: calm

General Observations/Notes: pre-storm sampling

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
E-15	1110	3'7"	15.9	34.26	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3	1125	3'8"	15.9	34.25	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	IWHC ~ 20yds NNE; topside cleaning (powerwashing) ~ 50yds S
E-14	1155	3'8"	15.8	34.25	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Pump out ~ 60yds W
C-2	1205	5'6"	15.8	34.23	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Week 4 Storm

Sample Date: 12/14/2021

Storm Event  
☒ Pre-IWHC Pause (4 weeks)   ☐ IWHC Pause (8 weeks)   ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: overcast, windy, rainy

Surface Water Conditions: receiving water brown + turbid

General Observations/Notes: storm water sampling

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
OF-1	1320	N/A	15.8	0.07	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No N/A If yes, note approximate distance and direction from site in "Site Observations."	30 inch pipe + 2 in. water sample is slightly cloudy brown w/ sediment + particulates
OF-2	1355	N/A	15.1	0.12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No N/A If yes, note approximate distance and direction from site in "Site Observations."	6.5 ft pipe + 7 in. water sample is slightly cloudy brown w/ sediment + particulates
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 4 storm

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/15/2021

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, calm

Surface Water Conditions: light texture, some organic debris on surface

General Observations/Notes: significant storm event occurred on 12/14.

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
CREF2	<sup>VR</sup> <del>0848</del> 0830	8'	14.9	33.56	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
CREF1	<sup>NS</sup> <del>0820</del> 0840	9'	14.9	33.58	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-12	0855	10'	14.7	33.16	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-10	0910	8'	14.6	32.99 (32.87 surf)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-11	0925	9'	14.6	33.16 (33.09 surf)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	patchy scum on surface (see photo)
C-9	0945	8.5"	14.5	32.97 (32.97 surf)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-8	1000	9.0'	14.9	33.13 (33.03 surf)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 4 Storm

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/15/21

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny → f + cloudy

Surface Water Conditions: light surf ripples < 2kts

General Observations/Notes: sig. storm event on 12/14

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C7	1015	9'	15.2	33.20 (33.10) (Surface)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C5	1030	10'	15.1	33.07 (32.92) (Surf.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C1	1045	6'	15.4	33.43 (33.13) (33.31) (Surf.)	<input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	slight NW breeze 2-3kts (upwell?) Hull cleaner observed ~50 yds NW of sample location. Sample collected prior to cleaning. Additional cleaners spotted ~100 yds NW of sample location post-collection.
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



Week 4 storm

Post-Storm

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/15/21

☒ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, clear

Surface Water Conditions: calm

General Observations/Notes: 1.09 inches of rain on 12/14; collected storm water from OF-1 & OF-2 on 12/14 ~ 1300  
surface salinity ranged from 32.7 - 32.9

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0750	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected at transient dock
N3-ER	0805	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected at transient dock
C-13	0830	10'10"	15.1	33.3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	0905	9'8"	15.0	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside maintenance & cleaning ~10yd N + ~20yd NNE organic debris on surface (leaves etc) from storm; extra volume for MS/MSD
C-6-Dup	0915	9'8"	15.0	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	same as above separate grab collected for duplicate
C-4	0955	9'6"	15.2	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	organic debris on surface
C-3	1030	7'5"	15.3	33.1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	IWHC ~40 yds SE

## Post-Storm

☒ Pre-IWHC Pause (4 weeks)    ☐ IWHC Pause (8 weeks)    ☐ Post-IWHC Pause (4 weeks)

Surface Water Conditions: calm

[illegible]

Week 5

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDYSample Date: 12/20/21 - W5☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)Weather Conditions: sunny, calmSurface Water Conditions: calm @ 0920

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
CREF 2	0930	22'	14.8	34.15	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	none
CREF 1	0945	20'	14.7	34.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	none
C12	0955	18'	<del>14.9</del> 14.8	34.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	none
C10	1010	11'	15.0	34.09	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	none, dolphin trainers next to site
C11	1020	10.0	<del>14.7</del> 14.5	34.02	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	dusty surface water, some small pa
C9	1030	11.0'	15.0	34.06	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C8	1040	9.10'	15.0	34.09	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

week 5

Sample Date: 12/20/20

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, calm @ 1050

Surface Water Conditions: 5-6 calm

General Observations/Notes: no divers @ all stations

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C7	1050	12.0'	15.0	34.09	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	1 me
C6	1100	13.5'	15.0	34.08	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	no access @ marina, sampled from boat.
C5	1115	10.0'	15.3	34.08	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	one vessel performing topside cleaning 75' north of site
C1	1130	7'	15.1	34.08	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	slight breeze @ 1120 2-3 knots, NW surface cleaning 500' north
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 5

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/20/2021

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, clear, light breeze

Surface Water Conditions: calm & clear

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0855	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
NB-ER	0905	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0930	14' 8"	15.0	33.7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-4	1010	7' 9"	15.1	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	sampled C-4 before C-6 because marina manager was out of office; hull cleaner observed outside marina
C-6	—	—	—	—	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	C6 sampled by boat team due to site access issues; marina manager out of office on two attempts
C-3	1050	5' 4"	15.1	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3-Dup	1100	5' 4"	15.1	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



# PORT OF SAN DIEGO IN-WATER HULL CLEANING PAUSE PILOT STUDY

☐ Pre-IWHC Pause (4 weeks)    ☒ IWHC Pause (8 weeks)    ☐ Post-IWHC Pause (4 weeks)

Surface Water Conditions: calm + clear

[illegible]

Week 6

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/28/21

☐ Pre-IWHC Pause (4 weeks)

☒ IWHC Pause (8 weeks)

☐ Post-IWHC Pause (4 weeks)

Weather Conditions: cloudy - pt cloudy, cool

Surface Water Conditions: wind ~ 5 KTS W/NW

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
CREF2	0845	17.0	14.7	33.37	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
CREF1	0855	18.5	14.6	33.34	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-20	0910	14.5	14.7	33.21	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some deck cleaning 50' to SW of site
C-12	0920	15.5 <del>14.6</del>	14.6	33.20	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-19	0945	9.5	14.7	33.19	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	person spotted walking duck w/ cleaning equipment (topside).
C-10	0955	7.0	14.8	33.26	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-11	1005	9.0	14.6	33.18	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

9 mmmmm

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/28/21

Week 6

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: pt cloudy / sunny

Surface Water Conditions: light ripples wind 3-4 kt NW/N

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C9	1015	8.5	15.0	33.26	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C8	1030	8.0	14.9	33.22	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C7	1045	9.5	14.7	33.21	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-17	1100	12.0	14.7	33.17	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	1) Hull cleaner observed in slip 100 of SDYC (E100, sailboat "Perseverance") 2) 2nd diver on E-82 "Oghouse" appeared to be changing mines
C5	1120	11.0	14.6	33.14	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	3) first cleaner moved onto boat ID "J-OK" sailboat slip E57 (SDYC). Jaga IV (E80) + Blink (E101) also cleaned
C1	1140	11.5	14.6	33.11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

week 6

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/28/2021

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: mostly cloudy; morning drizzle

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0830	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N3-ER	0840	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0900	14	14.6	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-18	0930	9	14.6	32.9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	0945	12	14.8	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Some sheen @ surface
E-16	1020	9	15.0	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-16-Dup	1030	9	15.0	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 6

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 12/28/21

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: Partly Cloudy; morning drizzle

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-4	1050	11	14.8	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-15	1125	12	14.7	32.9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3	1145	13	14.7	32.9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-14	1210	10	14.8	32.9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-2	1230	11	14.8	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 1/4/22 - week 7

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, light winds 2-3kt winds out of the south

Surface Water Conditions: calm, light ripples in main bay, calm no wind

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
CREF 2	0840	21.2"	14.6	33.48	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
CREF 1	0855	27.2"	14.5	33.47	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-12	0910	19.8"	14.4	33.34	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-10	0925	11.5"	14.3	33.27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-11	0935	7.1"	14.2	33.25	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-9	0950	9.8"	14.3	33.24	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	foam, dust on water surface
C-8	1000	10.0"	14.4	33.27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	foam on surface

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 1/4/22 W-7

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny calm

Surface Water Conditions: glassy

General Observations/Notes: noted n=1 hull cleaner @ Kona Kai, cleaning from boat @ 1100

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-7	1010	11'9"	14.4	33.27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	1020	18'0"	14.4	33.27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside cleaning Soft to the North
C-5	1035	13'11"	14.5	33.25	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	walked SDYC E-dock no hull cleaners saw 22 divers @ E-dock ~1015
C-1	1100	6'10"	14.5	33.25	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside maintenance 50' south of site
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 01/04/2021 week 7

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, light breeze (2-3 kts S)

Surface Water Conditions: calm, light ripples

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0830	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected at transient dock
N8-ER	0840	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected at transient dock
C-13	0900	19'5" hit bottom	14.6	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Secchi disk touched bottom
C-4	0930	10'1"	14.5	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	C-4 sampled before C-6 because marina manager was out of office
C-6	—	—	—	—	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	C-6 Sampled by boat; no site access from docks; marina managers out of office on 2 attempts
C-3	1005	6'7"	14.5	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-2	1030	6'10"	14.6	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 7

☐ Pre-IWHC Pause (4 weeks)    ☒ IWHC Pause (8 weeks)    ☐ Post-IWHC Pause (4 weeks)

Surface Water Conditions: calm, light ripples

[illegible]

Week 8

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 1/11/2022

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy, calm clearing throughout the morning to mostly sunny skies. Light Santa Ana winds

Surface Water Conditions: light surface texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-ref-2	0850	22.5'	14.5	33.33	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-ref-1	0905	24'	14.5	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-20	0920	16'	14.6	33.35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topsided cleaning ~75' NE found 1 hull cleaner (Tara) just walking walked 4 fingers - n=8 hull cleaners docked since
C-12	0940	14'	14.6	33.33	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-19	0955	9.5'	14.3	33.28	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Scum observed on surface (see photo) walked 2 fingers n=5 HCs
C-10	1005	10'	14.5	33.32	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-10-DUP	1020	"	"	"	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Week 8

Sample Date: 1/11/2022

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: mostly sunny, calm w/ light Santa Ana winds

Surface Water Conditions: light texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-11	1030	9'	14.6	33.15	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-9	1040	10'	14.7	33.34	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-8	1050	10'	14.6	33.29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-7	1100	10'	14.7	33.33	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Several small sailboats (~n=6) w/in 60yds of sampling location
E-17	1110	7'	14.8	33.35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5	1125	7.5'	14.9	33.35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-1	1135	6.5'	15.0	33.32	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Week 8

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 01/11/2022

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: mostly sunny, light breeze

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0845	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Collected @ transient dock
N3-ER	0850	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0905	15' 7"	14.6	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-18	0935	9' 2"	14.6	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	no vessel on right side of dock
C-6	0955	12' 8"	14.6	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	hull cleaner observed changing zines ~ 20yd NE; topside cleaning/maintenance observed ~ 20yd NW, 40yd NE, 50yd NW
E-16	1025	7' 0"	14.7	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	same hull cleaner observed on docks in SGYC; no IWHC observed
C-4	1040	8' 2"	14.7	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside cleaning ~ 10yd NE

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

week 8

Sample Date: 01/11/2022

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny

Surface Water Conditions: \_\_\_\_\_

General Observations/Notes: \_\_\_\_\_

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
E-15	1105	4'10"	14.8	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	hull cleaner changing zincs ~40yd NE
C-3	1125	5'1"	14.8	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-14	1150	6'1"	14.9	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-2	1205	5'6"	14.9	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	vessel being stained
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 1/19/22 - week 9

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy, calm

Surface Water Conditions: calm, n. wind pt cloudy @ 0845

General Observations/Notes: tsunami on 01/15/2022 (1.4 ft surge)

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-ref-2	0845	18'	15.0	33.54	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-ref-1	0905	15.5	14.9	33.56	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-12	0920	20' 15.3 vb	15.3	33.39	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some topside cleaning/maintenance ~ 30 yds east
C-10	0930	16'	15.4	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-11	0940	9.5'	15.5	33.35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some surface scum/organic debris
C-9	0950	12.5'	15.4	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some surface scum/organic debris
C-8	1000	14.5'	15.4	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some topside cleaning @ SDYC

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 1/19/22 - Week 9

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: pt cloudy, slight breeze 2-4 kt @ 1000

Surface Water Conditions: light surface texture

General Observations/Notes: tsunami on 01/15/2022 (1.4 ft surge)

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-7	1020	13'	15.5	33.37	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5	1030	12.5'	15.6	33.38	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Walked E dock, no hull cleaning. Topside cleaning @ near E-1
C-1	1045	10.5'	15.5	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-1-DUP	1105	11.0'	15.6	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

week 9

Sample Date: 01/19/2022

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy

Surface Water Conditions: calm

General Observations/Notes: tsunami on 01/15/2022 (1.4 ft surge)

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0830	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N8-ER	0840	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0900	18'4"	15.2	33.3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	0930	16'5"	15.6	33.1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside cleaning ~ 30yd S
C-4	1000	13'9"	15.6	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3	1030	11'0"	15.7	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-2	1055	13'3"	15.7	33.0	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 1/25/2022 4-10

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy, calm

Surface Water Conditions: light surface texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-Ref-2	0850	17.5'	15.2	33.46	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-Ref-1	0905	15'	15.2	33.45	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-20	0915	14.5'	15.3	33.46	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some topside cleaning (spraying) ~ 30yds NW
C-12	0925	<del>15.3'</del> 15.5'	15.3	33.47	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-19	0935	9'	15.3	33.44	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some topside cutting 50m NW
C-10	0945	8.5'	15.4	33.45	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-11	1000	8.5'	15.2*	33.41	<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	observed diver walking dock @ SWL - dock walk - noted diver prints to E-12, E-14, E-21 ... E-12-14 hulls looked cleaned E-21 did not.

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 1/25/22 W-10

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: mostly sunny, calm @ 1000

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-9	1010	8.0'	15.5	33.46	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-8	1030	9.25'	15.6	33.47	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-7	1040	12.0'	15.6	33.47	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-17	1050	12.0'	15.5	33.47	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	E-26, surface work 30m SE
C-5	1100	12.0'	15.7	33.46	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5-Dup	1100	12.0'	15.7	33.47	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	dockwalk - active hull cleaning @ E-101, "Blink" ~ 50m NW of C-5
C-1	1135	8.5'	15.6	33.46	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 01/25/2022

Week 10

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0830	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N3-ER	0840	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0900	12'5"	15.4	33.4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-18	0930	10'4"	15.5	33.3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	0945	11'9"	15.5	33.3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside cleaning ~ 20yds N of site
E-16	1015	7'2"	15.6	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	slick on surface; filter had lots of debris
C-4	1030	11'7"	15.6	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside cleaning ~ 20yds SW of site

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 01/25/2022 Week 10

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
E-15	1110	7'5"	15.7	33.3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3	1120	11'1"	15.7	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-14	1150	8'5"	15.8	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside maintenance ~ 30yds NW
C-2	1205	10'5"	15.9	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 1/31/22 W-11

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, slightly overcast

Surface Water Conditions: calm

General Observations/Notes: no divers observed  
hull cleaning

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-2-Ref	0935	16.5'	14.9	33.41	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C1-Ref	0945	15.0'	14.8	33.43	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-12	1000	15.5'	15.2	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some light surface "scum"
C-10	1010	8.5'	15.3	33.35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	above water cleaning, 75m south
C-11	1020	6.5'	15.2	33.33	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	surface scum
C-9	1030	8.5'	15.4	33.35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	surface scum
C-8	1040	9.0'	15.4	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 1/31/22 U-11

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: overcast, calm @ 1045

Surface Water Conditions: calm, no

General Observations/Notes: no hull cleaning observed

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-7	1050	9.0'	15.5	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5	1100	9.0'	15.5	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	surface scum edge ←
C-1	1125	7.5	15.5	33.36	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	dock walked 10 mins, no divers observed
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 01/31/2022      *Week 11*

☐ Pre-IWHC Pause (4 weeks)    ☒ IWHC Pause (8 weeks)    ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy

Surface Water Conditions: calm

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0925	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N8-ER	0935	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0950	11'5"	15.2	33.3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	1025	11'9"	15.5	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside cleaning/maintenance ~ 20yds NW + 40yds NE
C-6-Dup	1035	11'9"	15.5	33.2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Same as above
C-4	1105	8'10"	15.6	33.3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3	1130	7'0"	15.6	33.3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

# PORT OF SAN DIEGO IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 01/31/2022

Week 17

☐ Pre-IWHC Pause (4 weeks)    ☒ IWHC Pause (8 weeks)    ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy

Surface Water Conditions: calm

**General Observations/Notes:**

[illegible]

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 2/9/22

W-12

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, light breeze from South

Surface Water Conditions: light texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-Ref-2	0855	15'	14.9	33.66	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-Ref-1	0910	18'	14.9	33.64	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-20	0920	10.5'	15.0	33.69	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside cleaning 30' west
C-12	0930	13.5'	15.0	33.68	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside sanding 75' south
E-19	0945	8.5'	14.8	33.66	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	dirty surface sheen - could be dust from santa ana winds
C-10	0955	10.0'	15.2	33.67	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some surface sheen, see above
C-11	1000	8.0'	14.9	33.69	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	same surface sheen, see above



PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 2/9/22 W12

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, calm santa ana, warm

Surface Water Conditions: some surface dust, sheen @ most inside stations

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-9	1015	9.0'	15.3	33.71	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	minor surface sheen, organic/debris
C-8	1025	10.0'	15.1	33.67	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	no sheen
C-7	1035	9.5'	15.2	33.70	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	—
E-7	1045	8.8'	15.2	33.70	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	—
C-5	1055	8.0'	15.3	33.70	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	minor sheen, dock walked SDYC for 10 min n=ø hull cleaners
C-1	1120	7.5	15.4	33.77	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	no sheen
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 02/09/2022

week 12

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, light breeze from south

Surface Water Conditions: light texture

General Observations/Notes: Last day of the IWHC Pause!

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0835	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N3-ER	0845	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0900	11'2"	15.0	33.4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-18	0930	9'6"	15.2	33.5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	0945	11'7"	15.2	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-16	1015	6'8"	15.3	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-4	1030	7'1"	15.4	33.6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 02/09/2022

week 12

☐ Pre-IWHC Pause (4 weeks) ☒ IWHC Pause (8 weeks) ☐ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, light breeze from south

Surface Water Conditions: light texture

General Observations/Notes: Last day of the IWHC Pause!

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
E-15	1055	6'8"	15.4	33.7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3	1110	7'0"	15.4	33.7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-14	1135	6'2"	15.5	33.8	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-14-Dup	1145	6'2"	15.5	33.8	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-2	1200	5'10"	15.5	33.8	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside cleaning + maintenance ~ 10 yd NW
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

week 13

Sample Date: 2/14/2022

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, clear. calm in the morning, breezy (~10-15kts W) after ~1130am

Surface Water Conditions: mostly calm, textured @ reference stations. Occasional organic debris on surface

General Observations/Notes: (maybe due to recent Santa Ana's)

\* Equipment failure

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-Ref-2	09:50	22'0"	15.2	34.04	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-Ref-1	10:00	19'6"	15.4	34.01	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-12	10:10	15'0"	15.8	34.05	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-10	10:20	8'0"	16.6	34.15	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-11	10:30	6'6"	16.1	34.07	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-9	10:40	8'0"	16.4	33.98	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Some patchy organic debris on surface. Avoided during sampling.
C-8	10:50	7'6"	NR*	NR*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Some organic debris on surface Approx. 18 boats moored @ anchorage nearby.

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 2/14/2022

Week 13

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, clear. Calm in the morning, breezy (~10-15kts W) after ~1130 am

Surface Water Conditions: mostly calm, textured @ reference stations. Occasional organic debris on

General Observations/Notes: Surface (may be due to recent Santa Ana's).

\* Equipment failure

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-7	11:15	8'6"	NR*	NR*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5	11:40	7'6"	NR*	NR*	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside cleaning/maintenance performed ~50 and ~75 ft north. Hull cleaner active in slip E-16 (~100yds N).
C-1	12:05	8'0"	NR*	NR*	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 02/14/22

Week 13

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, clear, light wind 0-3mph

Surface Water Conditions: Clear, calm 0-3mph

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0945	X	Y	X	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N8-ER	0955	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13-W13	1000	10'2"	15.7	33.85	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-13dup	1010	11	11	11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	1040	8'7"	16.4	34.05	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-4	1110	8'3"	16.4	33.92	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	120° from site, 100 m away
C-3	1140	6'11"	16.4	34.02	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	130° from site, 75 m away

# PORT OF SAN DIEGO IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 02/14/22 W-13

☐ Pre-IWHC Pause (4 weeks)    ☐ IWHC Pause (8 weeks)    ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, clear wind S by S @ 230°

Surface Water Conditions: slight wind chop

**General Observations/Notes:**

[illegible]

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 2/21/22 <sup>Week 14</sup> ☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: windy, cloudy, wind ~ 5-8 kts from S.

Surface Water Conditions: light surface texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-ref-2	0850	22'	15.4	34.15	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-ref-1	0905	21'	15.3	34.16	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-20	0920	13'	15.7	34.15	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	surface cleaning 50' W
C-12	0925	12'8"	15.7	34.16	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-19	0940	7'0"	15.8	34.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-10	0950	7'3"	15.8	34.15	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-11	1000	4'8"	15.7	34.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Brownish tint to water, ↓ visibility. More particulate/color on filter (see photo)

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 2/21/22 week 14

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: windy, cloudy, wind ~5-8 kts from S.

Surface Water Conditions: light surface texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-9	10:15	5'8"	15.7	34.12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	light rain during sample
C-8	1025	6'6"	15.8	34.13	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	~30 mussels moored on anchorage
C-7	1035	9'0"	15.7	34.15	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-17	1045	6'10"	15.9	34.13	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5	1055	10'0"	15.8	34.12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-1	1105	7'7"	15.9	34.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 02/21/2022 Week 14      ☐ Pre-IWHC Pause (4 weeks)    ☐ IWHC Pause (8 weeks)    ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy, breezy (5-8 kts from S)

Surface Water Conditions: light surface texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0845	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected at transient dock
N3-ER	0855	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected at transient dock
C-13	0910	15'10"	15.8	33.47	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-18	0930	8'4"	16.1	33.41	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	0945	9'2"	16.2	33.40	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-16	1010	6'0"	16.2	33.41	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-4	1020	9'5"	16.1	33.40	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	light rain before sampling

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 02/21/2022      week 14

☐ Pre-IWHC Pause (4 weeks)    ☐ IWHC Pause (8 weeks)    ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: partly cloudy, breezy (5-8 kts from S)

Surface Water Conditions: light surface texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
E-15	1050	6'8"	16.2	33.41	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-15-Dup	1100	6'8"	16.2	33.41	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3	1110	8'3"	16.2	33.38	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside cleaning ~ 10yd E from sampling location
E-14	1135	7'3"	16.3	33.39	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-2	1150	8'9"	16.2	33.43	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 3/1/22 W-15

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny calm

Surface Water Conditions: calm wind < 1 kt

General Observations/Notes: recently documented red tide event

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-ref-2	0850	17'4"	14.8	33.23	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	heavy organic debris in water column; surface pollen
C-ref-1	0905	17'	14.4	33.20	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Some surface debris.
C-12	0920	23'3"	15.3	33.20	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	moderate dust, surface debris
C-10	0930	11'	15.6	33.21	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	moderate surface debris
C-11	0935	8'6"	15.6	33.18	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Surface cleaning ~ 100ft North of station.
C-9	0945	9'6"	15.5	33.21	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Small surface debris
C-8	0955	16.5	15.5	33.22	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 3/1/22 W-15

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, calm

Surface Water Conditions: smooth water < 1 kt @ 1000

General Observations/Notes: recently documented red tide event

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-7	1005	10.5	15.6	33.23	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5	1010	16.0	15.8	33.26	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	surface cleaning @ adjacent boat E-38 SDHC 1=1 hull cleaner on E-dock
C-1	1040	10'6"	15.8	33.35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 03/01/2022 *week 15*      ☐ Pre-IWHC Pause (4 weeks)    ☐ IWHC Pause (8 weeks)    ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, clear, light breeze

Surface Water Conditions: calm

General Observations/Notes: recently documented red tide event

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0840	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N8-ER	0845	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0900	15' 7"	14.7	33.50	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-6	0925	15' 5"	15.6	33.51	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside maintenance ~ 20 yds N; vessels in slips on both corners near sampling location
C-4	0950	15' 1"	15.7	33.51	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-4-Dup	1000	"	"	"	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-3	1030	11' 7"	15.7	33.56	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	

Sample Date: 03/01/2022 Week 15

Weather Conditions: sunny, clear, light breeze

General Observations/Notes: recently documented red tide event

[illegible]

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 03/08/2022      Week 16

☐ Pre-IWHC Pause (4 weeks)    ☐ IWHC Pause (8 weeks)    ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: sunny, clear, light breeze out of SE (1-3 kts)

Surface Water Conditions: calm, clear

General Observations/Notes: Week 16

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
FB	0900	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
N3-ER	0905	N/A	N/A	N/A	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	collected @ transient dock
C-13	0920	16'7" hit bottom	15.6	33.16	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-18	0950	10'2"	15.8	33.29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	some surface debris
C-6	1005	13'5"	15.9	33.35	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside cleaning (spraying) ~30m S; surface debris
E-16	1030	9'5"	15.9	33.33	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	sheen on surface
C-4	1045	11'9"	16.0	33.37	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	topside maintenance ~40m SW; bilge running on boat ~10m SE

**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 03/08/2022 Week 16

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, clear, light breeze out of SE (1-3 kts)

Surface Water Conditions: calm, clear

General Observations/Notes: Week 16

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
E-15	1110	7'10"	16.0	33.50	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	IWHC'er observed walking on dock; no active cleaning
C-3	1120	8'4"	16.2	33.38	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	waxing hull ~ 40m NE
E-14	1150	7'2"	16.2	33.46	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-2	1200	8'1"	16.2	33.40	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	IWHC ~ 40m NE
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
					<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	



**PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY**

Sample Date: 3/8/22 Week 16

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, clear, calm. Light breeze out of SE (1-3 kts).

Surface Water Conditions: Mostly glassy, light texture

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-Ref-2	0910	21.5'	15.6	33.03	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-Ref-1	0925	21.5'	15.6	33.04	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-20	0950	19.5'	15.8	33.13	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Boat cleaning (topside) observed @ 0930, visible soap bubbles on surface. Collection avoided - sample collected on other side of dock ~ 6ft. NE Topside waxing/buffing ~ 10yds NE
C-12	0940	17.5	15.8	33.10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside cleaning/maintenance ~ 10yds SE <del>Topside waxing/buffing ~ 10yds SE</del>
E-19	1010	10'	15.8	33.18	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
E-19-DUP	1020	10'	15.8	33.18	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Hull cleaner observed walking docks to the south. light surface film
C-10	1030	12'4"	15.9	33.14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	light surface film

PORT OF SAN DIEGO  
IN-WATER HULL CLEANING PAUSE PILOT STUDY

Sample Date: 3/8/22

Week 16

☐ Pre-IWHC Pause (4 weeks) ☐ IWHC Pause (8 weeks) ☒ Post-IWHC Pause (4 weeks)

Weather Conditions: Sunny, clear. Light breeze out of SE (1-3 kts)

Surface Water Conditions: mostly glassy, light surface texture.

General Observations/Notes:

Station ID	Sample Time	Water Visibility (ft)	Temp (°C)	Salinity (ppt)	In-Water Hull Cleaning Observed?	Site Observations/Notes
C-11	1040	8'	16.0	33.01	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-9	1047	10'	16.4	33.12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Light surface scum/debris
C-8	1055	12'	16.2	33.18	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-7	1105	13.5'	16.0	33.18	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	~ 4 small sailboats within 30 yds of sample location
E-17	1115	11'	16.5	33.40	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-5	1125	11'	16.4	33.29	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	
C-1	1135	9'	16.3	33.23	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, note approximate distance and direction from site in "Site Observations."	Topside cleaning ~ 20 yds SW

## **WATER QUALITY MONITORING FIELD QA CHECKLISTS**

# FIELD SAMPLING QA CHECKLIST

Station Location: Field Blank Date/Time: 11/22/21

0730

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified <del>X</del>	N/A
Time of sampling recorded	N/A
Temperature and salinity readings taken at 1 meter below surface	N/A
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	No activity
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	N/A
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	N/A
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	Y
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

\* Collected on transient dock

Signature of QA/QC Personnel: Barry J. Snyder Date/Time: 11/23/2021

Print Name/Company: Barry J. Snyder Wood 0930

# FIELD SAMPLING QA CHECKLIST

Station Location: Eg Rinsate Date/Time: 11/22/21

Mark each box with Y, N, or NA

0740  
Collect 0745

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	NA
Time of sampling recorded	Y
Temperature and salinity readings taken at 1 meter below surface	N/A
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	N/A
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	N/A
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	Y
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder Date/Time: 11/23/2021

Print Name/Company: Barry J. Snyder Wood 0930

# FIELD SAMPLING QA CHECKLIST

Station Location:

C-13

Date/Time:

11/22/21  
0805

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature and salinity readings taken at 1 meter below surface	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	X
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	X
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Barry J. Snyder

Date/Time:

11/23/2021

Print Name/Company:

Barry J. Snyder wood

0930



# FIELD SAMPLING QA CHECKLIST

Station Location: C-6 Date/Time: 11/22/21

Mark each box with Y, N, or NA

0910

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature and salinity readings taken at 1 meter below surface	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None observed
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	X
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	X
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder Date/Time: 11/23/2021

Print Name/Company: Barry J. Snyder Wood 0930

# FIELD SAMPLING QA CHECKLIST

Station Location:

Q-4

Date/Time:

11/22/21  
0945

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature and salinity readings taken at 1 meter below surface	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None observed
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	X
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Barry J. Snyder

Date/Time:

11/23/2021

Print Name/Company:

Barry J. Snyder Wood

0930

FIELD SAMPLING QA CHECKLIST

Station Location: C-3 Date/Time: 11/22/21

Mark each box with Y, N, or NA

1625

1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature and salinity readings taken at 1 meter below surface	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder Date/Time: 11/23/2021

Print Name/Company: Barry J. Snyder Wood 0930



# FIELD SAMPLING QA CHECKLIST

Station Location: C-2

Date/Time: 11/22/21  
10:55

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature and salinity readings taken at 1 meter below surface	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder Date/Time: 11/23/2021

Print Name/Company: Barry J. Snyder Wood 0930

# FIELD SAMPLING QA CHECKLIST

Station Location: C-REF-2

Date/Time: 11/22/21

Mark each box with Y, N, or NA

0745

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

## Additional Notes:

n-2 filter tower rinses

Signature of QA/QC Personnel: Kate Buckley

Date/Time: 11/23/21

0930

Print Name/Company: Kate Buckley, Wood

# FIELD SAMPLING QA CHECKLIST

Station Location: C-REF-1

Date/Time: 11/22/21

Mark each box with Y, N, or NA

0815

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes:

Signature of QA/QC Personnel: Kate Buckley

Date/Time: 11/23/21  
0930

Print Name/Company: Kate Buckley, Wood



# FIELD SAMPLING QA CHECKLIST

Station Location: C-12 / SIYB-5

Date/Time: 11/22/21

Mark each box with Y, N, or NA

0835

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes:

Signature of QA/QC Personnel: Kate Buckley Date/Time: 11/23/21 0930

Print Name/Company: Kate Buckley, Wood

# FIELD SAMPLING QA CHECKLIST

Station Location: C-10-W1

Date/Time: 11/22/21

Mark each box with Y, N, or NA

0855

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes: Slick noted/observed approx 150 m from sampling location. Floatable debris + sheen.

Signature of QA/QC Personnel: Kate Buckley Date/Time: 11/23/21 0930

Print Name/Company: Kate Buckley, Wood

# FIELD SAMPLING QA CHECKLIST

Station Location: C-11-W1

Date/Time: 11/22/21

Mark each box with Y, N, or NA

0910

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable) <i>see C-11-DUP QA/QC sheet</i>	✓
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes: MS/MSD sample

Signature of QA/QC Personnel: Kate Buckley

Date/Time: 11/23/21 0930

Print Name/Company: Kate Buckley, Wood

# FIELD SAMPLING QA CHECKLIST

Station Location: C-11-DUP-W1

Date/Time: 11/22/21  
0925

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	✓
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes:

Signature of QA/QC Personnel: Kate Buckley Date/Time: 11/23/21 0930

Print Name/Company: Kate Buckley, Wood

FIELD SAMPLING QA CHECKLIST

Station Location: C-9-W1

Date/Time: 11/22/21

0940

Mark each box with Y, N, or NA

1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes: Some floatable debris/sheen observed on surface (may be organic) at sample location. Visibility 6-7 feet.

Signature of QA/QC Personnel: Kate Buckley

Date/Time: 11/23/21 0930

Print Name/Company: Kate Buckley, Wood

### FIELD SAMPLING QA CHECKLIST

Station Location: SHYB<sup>KB</sup> C-8-W1 Date/Time: 11/22/21

Mark each box with Y, N, or NA

0955

#### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

#### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

#### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes: some floatable debris/sheen in water (maybe organic) on surface @ sample location.

Signature of QA/QC Personnel: Kate Buckley Date/Time: 11/23/21 0930

Print Name/Company: Kate Buckley, Wood



# FIELD SAMPLING QA CHECKLIST

Station Location: C-7-W1

Date/Time: 11/22/21

Mark each box with Y, N, or NA

1010

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes: Topside cleaning observed ~50m SE of sampling location.  
Visibility ~10ft.

Signature of QA/QC Personnel: Kate Buckley

Date/Time: 11/23/21 0930

Print Name/Company: Kate Buckley, Wood

# FIELD SAMPLING QA CHECKLIST

Station Location: C-5-W1

Date/Time: 11/22/21

Mark each box with Y, N, or NA

1025

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes: visibility ~ 8 feet.

Signature of QA/QC Personnel:

*Kate Buckley*

Date/Time: 11/23/21 0930

Print Name/Company:

Kate Buckley, Wood

# FIELD SAMPLING QA CHECKLIST

Station Location: C-1-W1

Date/Time: 11/22/21

1045

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	✓
Time of sampling recorded	✓
Temperature and salinity readings taken at 1 meter below surface	✓
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	✓
General site observations recorded	✓

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	✓
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	✓
Sampling instrument given site water rinse prior to deployment	✓
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	✓
Sample bottle(s) correctly labeled and match the station identification	✓
Sample bottle(s) correctly labeled with the sample date and time	✓
Sample collected at 1 meter below surface	✓
Staff avoided contaminating samples at all times	✓
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	✓

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	✓
Water samples properly logged on COC form	✓
Proper persons have signed the COC	✓
Cooler and samples hand delivered to labs with completed COC	✓

Additional Notes:

Signature of QA/QC Personnel:

*Kate Buckley*

Date/Time: 11/23/21 0930

Print Name/Company:

Kate Buckley, Wood

# FIELD SAMPLING QA CHECKLIST

Station Location: C-Ref 2

Date/Time: 1/4/2022

Mark each box with Y, N, or NA

0840

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	NA
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder

Date/Time: 1/5/2022

Print Name/Company: Barry J. Snyder Wood

1030

# FIELD SAMPLING QA CHECKLIST

Station Location: C-Ref 1

Date/Time: 1/4/2022  
0855

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	NA
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder

Date/Time: 1/5/2022

Print Name/Company: Barry J. Snyder

Wood

1030



# FIELD SAMPLING QA CHECKLIST

Station Location: C-12

Date/Time:

1/4/2022  
0910

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Barry J. Snyder

Date/Time:

1/5/2022

Print Name/Company:

Barry J. Snyder Wood

1030



FIELD SAMPLING QA CHECKLIST

Station Location: C-10

Date/Time: 1/4/2022

Mark each box with Y, N, or NA

0925

1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	X
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	X
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder

Date/Time: 1/5/2022

Print Name/Company: Barry J. Snyder

1030

# FIELD SAMPLING QA CHECKLIST

Station Location: C-11

Date/Time: 1/4/2022

Mark each box with Y, N, or NA

0935

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	<u>Y</u>
Time of sampling recorded	<u>Y</u>
Temperature, salinity, and secchi disk readings taken	<u>Y</u>
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	<u>Y</u>
General site observations recorded	<u>Y</u>

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	<u>Y</u>
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	<u>Y</u>
Sampling instrument given site water rinse prior to deployment	<u>Y</u>
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	<u>Y</u>
Sample bottle(s) correctly labeled and match the station identification	<u>Y</u>
Sample bottle(s) correctly labeled with the sample date and time	<u>Y</u>
Sample collected at 1 meter below surface	<u>Y</u>
Staff avoided contaminating samples at all times	<u>Y</u>
Equipment rinsate blank and field blank have been collected (if applicable)	<u>NA</u>
Field duplicate collected (if applicable)	<u>NA</u>
PPE properly removed and disposed of upon site completion	<u>Y</u>

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	<u>Y</u>
Water samples properly logged on COC form	<u>Y</u>
Proper persons have signed the COC	<u>Y</u>
Cooler and samples hand delivered to labs with completed COC	<u>Y</u>

## Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder

Date/Time: 1/5/2022

Print Name/Company: Barry J. Snyder Wood

1030

# FIELD SAMPLING QA CHECKLIST

Station Location: C-9

Date/Time: 1/4/2022

Mark each box with Y, N, or NA

0950

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	<u>Y</u>
Time of sampling recorded	<u>Y</u>
Temperature, salinity, and secchi disk readings taken	<u>Y</u>
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	<u>Y</u>
General site observations recorded	<u>Y</u>

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	<u>Y</u>
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	<u>Y</u>
Sampling instrument given site water rinse prior to deployment	<u>Y</u>
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	<u>Y</u>
Sample bottle(s) correctly labeled and match the station identification	<u>Y</u>
Sample bottle(s) correctly labeled with the sample date and time	<u>Y</u>
Sample collected at 1 meter below surface	<u>Y</u>
Staff avoided contaminating samples at all times	<u>Y</u>
Equipment rinsate blank and field blank have been collected (if applicable)	<u>NA</u>
Field duplicate collected (if applicable)	<u>NA</u>
PPE properly removed and disposed of upon site completion	<u>Y</u>

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	<u>Y</u>
Water samples properly logged on COC form	<u>Y</u>
Proper persons have signed the COC	<u>Y</u>
Cooler and samples hand delivered to labs with completed COC	<u>Y</u>

Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder Date/Time: 1/5/2022

Print Name/Company: Barry J. Snyder Wood 1030



# FIELD SAMPLING QA CHECKLIST

Station Location:

C-8

Date/Time:

11/4/2022

Mark each box with Y, N, or NA

1000

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	X
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	X
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	X
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	X
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Barry J. Snyder

Date/Time:

11/5/2022

Print Name/Company:

Barry J. Snyder Wood

1030

# FIELD SAMPLING QA CHECKLIST

Station Location:

C-7

Date/Time:

11/4/2022

Mark each box with Y, N, or NA

10:10

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y*
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	X
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

\* station ID verified. Farther than 3m.  
~ 5m

Signature of QA/QC Personnel:

Barry J. Snyder

Date/Time:

11/5/2022

Print Name/Company:

Barry J. Snyder

WOOD

1030



### FIELD SAMPLING QA CHECKLIST

Station Location:

C-6

Date/Time:

1/4/2022

Mark each box with Y, N, or NA

1020

#### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y*
General site observations recorded	Y

#### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

#### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

#### Additional Notes:

\* some topside cleaning 50 Ft to N

Signature of QA/QC Personnel:

Barry J. Snyder

Date/Time:

1/5/2022

Print Name/Company:

Barry J. Snyder wood

1030



### FIELD SAMPLING QA CHECKLIST

Station Location:

C-5

Date/Time:

1/4/2022

Mark each box with Y, N, or NA

1035

#### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

#### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

#### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Barry J. Snyder

Date/Time:

1/5/2022

Print Name/Company:

Barry J. Snyder Wood

1030

# FIELD SAMPLING QA CHECKLIST

Station Location: C-1

Date/Time: 1/4/2022

Mark each box with Y, N, or NA

1100

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	<u>Y</u>
Time of sampling recorded	<u>Y</u>
Temperature, salinity, and secchi disk readings taken	<u>Y</u>
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	<u>Y</u>
General site observations recorded	<u>Y</u>

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	<u>Y</u>
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	<u>Y</u>
Sampling instrument given site water rinse prior to deployment	<u>Y</u>
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	<u>Y</u>
Sample bottle(s) correctly labeled and match the station identification	<u>Y</u>
Sample bottle(s) correctly labeled with the sample date and time	<u>Y</u>
Sample collected at 1 meter below surface	<u>Y</u>
Staff avoided contaminating samples at all times	<u>Y</u>
Equipment rinsate blank and field blank have been collected (if applicable)	<u>NA</u>
Field duplicate collected (if applicable)	<u>NA</u>
PPE properly removed and disposed of upon site completion	<u>Y</u>

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	<u>Y</u>
Water samples properly logged on COC form	<u>Y</u>
Proper persons have signed the COC	<u>Y</u>
Cooler and samples hand delivered to labs with completed COC	<u>Y</u>

## Additional Notes:

Topside cleanings 50 Ft to south

Signature of QA/QC Personnel: Barry J. Snyder

Date/Time: 1/5/2022

Print Name/Company: Barry J. Snyder

1030

# FIELD SAMPLING QA CHECKLIST

Station Location:

Ref -2

Date/Time:

3/8/22

09:10

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	NA
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	X

Additional Notes:

None

Signature of QA/QC Personnel:

Benny J. Smyth

Date/Time:

3/9/22

Print Name/Company:

Wood

09:50



# FIELD SAMPLING QA CHECKLIST

Station Location: Ref-1

Date/Time: 3/8/22

Mark each box with Y, N, or NA

09 25

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	<u>Y</u>
Time of sampling recorded	<u>Y</u>
Temperature, salinity, and secchi disk readings taken	<u>Y</u>
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	<u>NA</u>
General site observations recorded	<u>Y</u>

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	<u>Y</u>
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	<u>Y</u>
Sampling instrument given site water rinse prior to deployment	<u>Y</u>
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	<u>Y</u>
Sample bottle(s) correctly labeled and match the station identification	<u>Y</u>
Sample bottle(s) correctly labeled with the sample date and time	<u>Y</u>
Sample collected at 1 meter below surface	<u>Y</u>
Staff avoided contaminating samples at all times	<u>Y</u>
Equipment rinsate blank and field blank have been collected (if applicable)	<u>NA</u> <u>X</u> <u>(BTS)</u>
Field duplicate collected (if applicable)	<u>NA</u>
PPE properly removed and disposed of upon site completion	<u>Y</u>

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	<u>Y</u>
Water samples properly logged on COC form	<u>Y</u>
Proper persons have signed the COC	<u>Y</u>
Cooler and samples hand delivered to labs with completed COC	<u>Y</u>

## Additional Notes:

None

Signature of QA/QC Personnel: Benny J. Snyder

Date/Time: 3/9/22

Print Name/Company: Wood

09:50

# FIELD SAMPLING QA CHECKLIST

Station Location: E-20

Date/Time: 3/8/22  
09:50

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	<u>Y</u> <sup>BJS</sup>
Time of sampling recorded	<u>Y</u>
Temperature, salinity, and secchi disk readings taken	<u>Y</u>
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	<u>Y</u> <i>see note below</i>
General site observations recorded	<u>Y</u> <i>see note below</i>

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	<u>Y</u>
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	<u>Y</u>
Sampling instrument given site water rinse prior to deployment	<u>Y</u>
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	<u>Y</u>
Sample bottle(s) correctly labeled and match the station identification	<u>Y</u>
Sample bottle(s) correctly labeled with the sample date and time	<u>Y</u>
Sample collected at 1 meter below surface	<u>Y</u>
Staff avoided contaminating samples at all times	<u>Y</u>
Equipment rinsate blank and field blank have been collected (if applicable)	<u>NA</u>
Field duplicate collected (if applicable)	<u>NA</u>
PPE properly removed and disposed of upon site completion	<u>Y</u>

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	<u>Y</u>
Water samples properly logged on COC form	<u>Y</u>
Proper persons have signed the COC	<u>Y</u>
Cooler and samples hand delivered to labs with completed COC	<u>Y</u>

## Additional Notes:

\* E-20 delay<sup>ed</sup> due to topside cleaning and soap bubbles in the water.  
Relocated to other side of dock - 6ft to North east due to topside cleaning

Signature of QA/QC Personnel: \_\_\_\_\_ Date/Time: 3/9/22

Print Name/Company: Benny J. Smyth  
Wood 09:50

# FIELD SAMPLING QA CHECKLIST

Station Location: C-12

Date/Time: 3/8/22

Mark each box with Y, N, or NA

09:40

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	<u>Y</u>
Time of sampling recorded	<u>Y</u>
Temperature, salinity, and secchi disk readings taken	<u>Y</u>
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	<u>Y</u>
General site observations recorded <u>topside cleaning noted</u>	<u>Y</u>

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	<u>Y</u>
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	<u>Y</u>
Sampling instrument given site water rinse prior to deployment	<u>Y</u>
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	<u>Y</u>
Sample bottle(s) correctly labeled and match the station identification	<u>Y</u>
Sample bottle(s) correctly labeled with the sample date and time	<u>Y</u>
Sample collected at 1 meter below surface	<u>Y</u>
Staff avoided contaminating samples at all times	<u>Y</u>
Equipment rinsate blank and field blank have been collected (if applicable)	<u>NA</u>
Field duplicate collected (if applicable)	<u>NA</u>
PPE properly removed and disposed of upon site completion	<u>Y</u>

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	<u>Y</u>
Water samples properly logged on COC form	<u>Y</u>
Proper persons have signed the COC	<u>Y</u>
Cooler and samples hand delivered to labs with completed COC	<u>Y</u>

## Additional Notes:

None

Signature of QA/QC Personnel: Barry J. Snyder

Date/Time: 3/9/22

Print Name/Company: Wood

09:50



# FIELD SAMPLING QA CHECKLIST

Station Location: E-19 Date/Time: 3/8/22  
10:10

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	X N BJS
Field duplicate collected (if applicable)	Y
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Brian J. Snyder Date/Time: 3/9/22

Print Name/Company: Wood 09:50

# FIELD SAMPLING QA CHECKLIST

Station Location: E-19 Dup Date/Time: 3/8/22

Mark each box with Y, N, or NA

10:20

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	<u>Y</u>
Time of sampling recorded	<u>Y</u>
Temperature, salinity, and secchi disk readings taken	<u>Y</u>
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	<u>Y*</u>
General site observations recorded	<u>Y</u>

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	<u>Y</u>
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	<u>Y</u>
Sampling instrument given site water rinse prior to deployment	<u>Y</u>
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	<u>Y</u>
Sample bottle(s) correctly labeled and match the station identification	<u>Y</u>
Sample bottle(s) correctly labeled with the sample date and time	<u>Y</u>
Sample collected at 1 meter below surface	<u>X</u>
Staff avoided contaminating samples at all times	<u>Y</u>
Equipment rinsate blank and field blank have been collected (if applicable)	<u>NA</u>
Field duplicate collected (if applicable)	<u>Y</u>
PPE properly removed and disposed of upon site completion	<u>Y</u>

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	<u>Y</u>
Water samples properly logged on COC form	<u>Y</u>
Proper persons have signed the COC	<u>Y</u>
Cooler and samples hand delivered to labs with completed COC	<u>Y</u>

Additional Notes:

\* Hull cleaner observed - See Field notes for details (at SWYC)

March 11  
20  
577 461 3376

Signature of QA/QC Personnel: Barry J. Grizzle Date/Time: 3/9/22

Print Name/Company: Wood 09:50

# FIELD SAMPLING QA CHECKLIST

Station Location: C-10

Date/Time: 3/8/22

10:30

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Brian J. Smyth Date/Time: 3/9/22

Print Name/Company: Wood 09:50



# FIELD SAMPLING QA CHECKLIST

Station Location:

C-11

Date/Time:

3/8/22

10:40

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	X
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	X
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Brian J. Snyder

Date/Time:

3/9/22

Print Name/Company:

Wood

09:50

### FIELD SAMPLING QA CHECKLIST

Station Location:

C-9

Date/Time:

3/8/22

Mark each box with Y, N, or NA

10:47

#### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

#### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

#### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Barry J. Smyke

Date/Time:

3/9/22

Print Name/Company:

Wood

09:50



### FIELD SAMPLING QA CHECKLIST

Station Location:

C-8

Date/Time:

3/8/22

10:55

Mark each box with Y, N, or NA

#### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

#### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

#### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Benny J. Smyth

Date/Time:

3/9/22

Print Name/Company:

Wood

09:50

# FIELD SAMPLING QA CHECKLIST

Station Location: C-7

Date/Time: 3/8/22

Mark each box with Y, N, or NA

1105

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	<u>N*</u>
Time of sampling recorded	<u>Y</u>
Temperature, salinity, and secchi disk readings taken	<u>Y</u>
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	<u>Y</u>
General site observations recorded	<u>Y</u>

\* ~ 15 feet

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	<u>Y</u>
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	<u>Y</u>
Sampling instrument given site water rinse prior to deployment	<u>Y</u>
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	<u>Y</u>
Sample bottle(s) correctly labeled and match the station identification	<u>Y</u>
Sample bottle(s) correctly labeled with the sample date and time	<u>Y</u>
Sample collected at 1 meter below surface	<u>Y</u>
Staff avoided contaminating samples at all times	<u>Y</u>
Equipment rinsate blank and field blank have been collected (if applicable)	<u>NA</u>
Field duplicate collected (if applicable)	<u>NA</u>
PPE properly removed and disposed of upon site completion	<u>Y</u>

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	<u>Y</u>
Water samples properly logged on COC form	<u>Y</u>
Proper persons have signed the COC	<u>Y</u>
Cooler and samples hand delivered to labs with completed COC	<u>Y</u>

## Additional Notes:

None

Signature of QA/QC Personnel: Brian J Smyth

Date/Time: 3/9/22

Print Name/Company: Wood

09:50

# FIELD SAMPLING QA CHECKLIST

Station Location:

E-17

Date/Time:

3/8/22

11:15

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Brian J. Grych

Date/Time:

3/9/22

Print Name/Company:

Wood

09:50



## FIELD SAMPLING QA CHECKLIST

Station Location:

C-5

Date/Time:

3/8/22

11:25

Mark each box with Y, N, or NA

### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

### Additional Notes:

None

Signature of QA/QC Personnel:

Barry J. Smyth

Date/Time:

3/9/22

Print Name/Company:

Wood

09:50

## FIELD SAMPLING QA CHECKLIST

Station Location:

C-1

Date/Time:

3/8/22

11:35

Mark each box with Y, N, or NA

### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y
General site observations recorded	Y

### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	NA
PPE properly removed and disposed of upon site completion	Y

### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel:

Bernie J. Smyth

Date/Time:

3/9/22

Print Name/Company:

Wood

09:50



# FIELD SAMPLING QA CHECKLIST

Station Location: FB (Field blank)

Date/Time: 03/08/2022 0900

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified *	N/A
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	N/A
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	N/A
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	N/A
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	N/A
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and <u>field blank</u> have been collected (if applicable)	Y
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

\* collected on transient dock

Signature of QA/QC Personnel: Marisa Swiderski

Date/Time: 03/09/2022

Print Name/Company: Marisa Swiderski (Wood)

1000

### FIELD SAMPLING QA CHECKLIST

Station Location: N3-ER (Niskin 3 Equipment Rinse) Date/Time: 03/08/2022

0905

Mark each box with Y, N, or NA

#### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified ✕	N/A
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	N/A
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	N/A
General site observations recorded	Y

#### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	N/A
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	N/A
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	Y
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

#### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

#### Additional Notes:

\* collected on transient dock

Signature of QA/QC Personnel: Marisa Swiderski

Date/Time: 03/09/2022

1000

Print Name/Company: Marisa Swiderski (Wood)

# FIELD SAMPLING QA CHECKLIST

Station Location: C-13

Date/Time: 03/08/2022

0920

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature and salinity readings taken at 1 meter below surface	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Marisa Swiderski

Date/Time: 03/09/2022

1000

Print Name/Company: Marisa Swiderski (Wood)

## FIELD SAMPLING QA CHECKLIST

Station Location: E-18

Date/Time: 03/08/2022

Mark each box with Y, N, or NA

0950

### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

### Additional Notes:

None

Signature of QA/QC Personnel: Marisa Swiderski

Date/Time: 03/09/2022

Print Name/Company: Marisa Swiderski (Wood)

1000

FIELD SAMPLING QA CHECKLIST

Station Location: C-6

Date/Time: 03/08/2022

1005

Mark each box with Y, N, or NA

1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature and salinity readings taken at 1 meter below surface	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment-rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

Additional Notes:

None

Signature of QA/QC Personnel: Marisa Swiderski Date/Time: 03/09/2022

1000

Print Name/Company: Marisa Swiderski (Wood)



### FIELD SAMPLING QA CHECKLIST

Station Location: E-16

Date/Time: 03/08/2022

1030

Mark each box with Y, N, or NA

#### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

#### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

#### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

#### Additional Notes:

None

Signature of QA/QC Personnel: Marisa Swiderski

Date/Time: 03/09/2022

1000

Print Name/Company: Marisa Swiderski (Wood)

# FIELD SAMPLING QA CHECKLIST

Station Location: C-4

Date/Time: 03/08/2022

Mark each box with Y, N, or NA

1045

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	NA
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Marisa Swiderski

Date/Time: 03/09/2022

Print Name/Company: Marisa Swiderski (Wood)

1000

### FIELD SAMPLING QA CHECKLIST

Station Location: E-15

Date/Time: 03/08/2022

Mark each box with Y, N, or NA

1110

#### 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

#### 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

#### 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

#### Additional Notes:

None

Signature of QA/QC Personnel: Marisa Swiderski Date/Time: 03/09/2022

Print Name/Company: Marisa Swiderski (Wood)

1000

# FIELD SAMPLING QA CHECKLIST

Station Location: C-3

Date/Time: 03/08/2022

Mark each box with Y, N, or NA

1120

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Marisa Swiderski Date/Time: 03/09/2022

Print Name/Company: Marisa Swiderski (Wood)

1000

# FIELD SAMPLING QA CHECKLIST

Station Location: E-14

Date/Time: 03/08/2022

Mark each box with Y, N, or NA

1150

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm 3$ m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	None
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

## Additional Notes:

None

Signature of QA/QC Personnel: Marisa Swiderski Date/Time: 03/09/2022

1000

Print Name/Company: Marisa Swiderski (Wood)



# FIELD SAMPLING QA CHECKLIST

Station Location: C-2

Date/Time: 03/08/2022

1200

Mark each box with Y, N, or NA

## 1. Station Occupation and Field Data Recording:

Station GPS coordinates (approx. $\pm$ 3 m) and station identification verified	Y
Time of sampling recorded	Y
Temperature, salinity, and secchi disk readings taken	Y
Check for in-water hull cleaning operations in the area and record distance and direction from site if observed	Y* 40mNE
General site observations recorded	Y

## 2. Sampling Procedures:

Field staff wearing fresh, powder-free nitrile gloves	Y
SWAMP protocols utilized to avoid sample contamination (i.e., clean hands/dirty hands technique)	Y
Sampling instrument given site water rinse prior to deployment	Y
Sample bottle(s) are the correct type, lab-certified, and contaminant-free	Y
Sample bottle(s) correctly labeled and match the station identification	Y
Sample bottle(s) correctly labeled with the sample date and time	Y
Sample collected at 1 meter below surface	Y
Staff avoided contaminating samples at all times	Y
Equipment rinsate blank and field blank have been collected (if applicable)	N/A
Field duplicate collected (if applicable)	N/A
PPE properly removed and disposed of upon site completion	Y

## 4. Sample Storage and Transport:

Water samples properly stored on ice in a cooler	Y
Water samples properly logged on COC form	Y
Proper persons have signed the COC	Y
Cooler and samples hand delivered to labs with completed COC	Y

### Additional Notes:

\* IWHC observed ~40 meters NE of sample location

Signature of QA/QC Personnel: Marisa Swiderski Date/Time: 03/09/2022

1000

Print Name/Company: Marisa Swiderski (Wood)

## **APPENDIX C**

### **WECK LABORATORIES ANALYTICAL CHEMISTRY REPORTS**

## **WEEK 1 ANALYTICAL RESULTS**

Work Orders: 1K23057

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Rolf Schottle

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 12/27/2021

Received Date: 11/23/2021

Turnaround Time: Normal

Phones: (858) 300-4323

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH #4047 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP  
#CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Rolf Schottle,

Enclosed are the results of analyses for samples received 11/23/21 with the Chain-of-Custody document. The samples were received in good condition, at 3.1 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
12/27/2021 17:16

**Project Manager:** Rolf Schottle

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W1	Marisa Swiderski/Kate Buckley	1K23057-01	Water	11/22/21 10:45	
C-2-W1	Marisa Swiderski/Kate Buckley	1K23057-02	Water	11/22/21 11:05	
C-3-W1	Marisa Swiderski/Kate Buckley	1K23057-03	Water	11/22/21 10:25	
C-4-W1	Marisa Swiderski/Kate Buckley	1K23057-04	Water	11/22/21 09:45	
C-5-W1	Marisa Swiderski/Kate Buckley	1K23057-05	Water	11/22/21 10:25	
C-6-W1	Marisa Swiderski/Kate Buckley	1K23057-06	Water	11/22/21 09:10	
C-7-W1	Marisa Swiderski/Kate Buckley	1K23057-07	Water	11/22/21 10:10	
C-8-W1	Marisa Swiderski/Kate Buckley	1K23057-08	Water	11/22/21 09:55	
C-9-W1	Marisa Swiderski/Kate Buckley	1K23057-09	Water	11/22/21 09:40	
C-10-W1	Marisa Swiderski/Kate Buckley	1K23057-10	Water	11/22/21 08:55	
C-11-W1	Marisa Swiderski/Kate Buckley	1K23057-11	Water	11/22/21 09:10	
C-11-Dup-W1	Marisa Swiderski/Kate Buckley	1K23057-12	Water	11/22/21 09:25	
C-12-W1	Marisa Swiderski/Kate Buckley	1K23057-13	Water	11/22/21 08:35	
C-13-W1	Marisa Swiderski/Kate Buckley	1K23057-14	Water	11/22/21 08:05	
C-REF-1-W1	Marisa Swiderski/Kate Buckley	1K23057-15	Water	11/22/21 08:15	
C-REF-2-W1	Marisa Swiderski/Kate Buckley	1K23057-16	Water	11/22/21 07:45	
FB-W1	Marisa Swiderski/Kate Buckley	1K23057-17	Water	11/22/21 07:30	
N3-ER-W1	Marisa Swiderski/Kate Buckley	1K23057-18	Water	11/22/21 07:45	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

12/27/2021 17:16

**Project Manager:** Rolf Schottle

## Sample Results

Sample: C-1-W1  
1K23057-01 (Water)

Sampled: 11/22/21 10:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.6	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

## Sample Results

Sample: C-2-W1  
1K23057-02 (Water)

Sampled: 11/22/21 11:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.4	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

## Sample Results

Sample: C-3-W1  
1K23057-03 (Water)

Sampled: 11/22/21 10:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.0	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

## Sample Results

Sample: C-4-W1  
1K23057-04 (Water)

Sampled: 11/22/21 9:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.2	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

## Sample Results

Sample: C-5-W1  
1K23057-05 (Water)

Sampled: 11/22/21 10:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.0	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
12/27/2021 17:16

## Sample Results

(Continued)

Sample: C-6-W1  
1K23057-06 (Water) Sampled: 11/22/21 9:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.0	0.0038	0.010	ug/l	1	12/14/21	

## Sample Results

(Continued)

Sample: C-7-W1  
1K23057-07 (Water) Sampled: 11/22/21 10:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.1	0.0038	0.010	ug/l	1	12/14/21	

## Sample Results

(Continued)

Sample: C-8-W1  
1K23057-08 (Water) Sampled: 11/22/21 9:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	5.9	0.0038	0.010	ug/l	1	12/14/21	

## Sample Results

(Continued)

Sample: C-9-W1  
1K23057-09 (Water) Sampled: 11/22/21 9:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.9	0.0038	0.010	ug/l	1	12/14/21	

## Sample Results

(Continued)

Sample: C-10-W1  
1K23057-10 (Water) Sampled: 11/22/21 8:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.3	0.0038	0.010	ug/l	1	12/14/21	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
12/27/2021 17:16

## Sample Results

(Continued)

Sample: C-11-W1  
1K23057-11 (Water)

Sampled: 11/22/21 9:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	5.1	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

## Sample Results

(Continued)

Sample: C-11-Dup-W1  
1K23057-12 (Water)

Sampled: 11/22/21 9:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	5.1	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

## Sample Results

(Continued)

Sample: C-12-W1  
1K23057-13 (Water)

Sampled: 11/22/21 8:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	3.4	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

## Sample Results

(Continued)

Sample: C-13-W1  
1K23057-14 (Water)

Sampled: 11/22/21 8:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.9	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

## Sample Results

(Continued)

Sample: C-REF-1-W1  
1K23057-15 (Water)

Sampled: 11/22/21 8:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	0.55	0.0038	0.010	ug/l	1	12/14/21	

**Instr:** ICPMS03

**Prepared:** 12/10/21 14:16

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
12/27/2021 17:16

## Sample Results

(Continued)

Sample: C-REF-2-W1  
1K23057-16 (Water)

Sampled: 11/22/21 7:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/10/21 14:16	<b>Analyst:</b> ALN			
<b>Copper, Dissolved</b>	0.58	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

(Continued)

Sample: FB-W1  
1K23057-17 (Water)

Sampled: 11/22/21 7:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/10/21 14:16	<b>Analyst:</b> ALN			
<b>Copper, Dissolved</b>	0.038	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

(Continued)

Sample: N3-ER-W1  
1K23057-18 (Water)

Sampled: 11/22/21 7:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W1L0744	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/10/21 14:16	<b>Analyst:</b> ALN			
<b>Copper, Dissolved</b>	0.53	0.0038	0.010	ug/l	1	12/15/21	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
12/27/2021 17:16

**Project Manager:** Rolf Schottle

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1L0744 - EPA 1640</b>											
<b>Blank (W1L0744-BLK1)</b>					<b>Prepared: 12/10/21 Analyzed: 12/14/21</b>						
Copper, Dissolved	0.00705	0.0038	0.010	ug/l							J
<b>LCS (W1L0744-BS1)</b>					<b>Prepared: 12/10/21 Analyzed: 12/14/21</b>						
Copper, Dissolved	11.1	0.0038	0.010	ug/l	10.0		111	70-130			
<b>Matrix Spike (W1L0744-MS1)</b>					<b>Source: 1K23057-01 Prepared: 12/10/21 Analyzed: 12/14/21</b>						
Copper, Dissolved	18.0	0.0038	0.010	ug/l	10.0	7.58	104	70-130			
<b>Matrix Spike (W1L0744-MS2)</b>					<b>Source: 1K23057-11 Prepared: 12/10/21 Analyzed: 12/15/21</b>						
Copper, Dissolved	14.1	0.0038	0.010	ug/l	10.0	5.15	90	70-130			
<b>Matrix Spike Dup (W1L0744-MSD1)</b>					<b>Source: 1K23057-01 Prepared: 12/10/21 Analyzed: 12/14/21</b>						
Copper, Dissolved	20.5	0.0038	0.010	ug/l	10.0	7.58	129	70-130	13	30	
<b>Matrix Spike Dup (W1L0744-MSD2)</b>					<b>Source: 1K23057-11 Prepared: 12/10/21 Analyzed: 12/15/21</b>						
Copper, Dissolved	15.1	0.0038	0.010	ug/l	10.0	5.15	100	70-130	7	30	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

12/27/2021 17:16

**Project Manager:** Rolf Schottle

## Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.

## CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745  
Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ [www.wecklabs.com](http://www.wecklabs.com)

[illegible]

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 11/23/2021 0900	RECEIVED BY <i>Hector Sanchez</i>	<b>SAMPLE CONDITION:</b> Actual Temperature: 3.1°  Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab  <i>F-0230</i>	<b>SAMPLE TYPE CODE:</b> AQ=Aqueous NA= Non Aqueous SL = Sludge  DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water  SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Hector Sanchez</i>	DATE / TIME 11-23-21	RECEIVED BY <i>[Signature]</i> 11/23/21 1115		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.

## **WEEK 2 ANALYTICAL RESULTS**

Work Orders: 1L01055

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Rolf Schottle

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 12/30/2021

Received Date: 12/1/2021

Turnaround Time: Normal

Phones: (858) 300-4323

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH #4047 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP  
#CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Rolf Schottle,

Enclosed are the results of analyses for samples received 12/01/21 with the Chain-of-Custody document. The samples were received in good condition, at 5.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager





Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
12/30/2021 18:15

**Project Manager:** Rolf Schottle

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W2	Marisa Swiderski/Kate Buckley	1L01055-01	Sea Water	11/30/21 10:30	
C-2-W2	Marisa Swiderski/Kate Buckley	1L01055-02	Sea Water	11/30/21 12:30	
C-3-W2	Marisa Swiderski/Kate Buckley	1L01055-03	Sea Water	11/30/21 11:35	
C-4-W2	Marisa Swiderski/Kate Buckley	1L01055-04	Sea Water	11/30/21 10:40	
C-5-W2	Marisa Swiderski/Kate Buckley	1L01055-05	Sea Water	11/30/21 10:18	
C-6-W2	Marisa Swiderski/Kate Buckley	1L01055-06	Sea Water	11/30/21 09:45	
C-7-W2	Marisa Swiderski/Kate Buckley	1L01055-07	Sea Water	11/30/21 09:55	
C-8-W2	Marisa Swiderski/Kate Buckley	1L01055-08	Sea Water	11/30/21 09:45	
C-9-W2	Marisa Swiderski/Kate Buckley	1L01055-09	Sea Water	11/30/21 09:35	
C-10-W2	Marisa Swiderski/Kate Buckley	1L01055-10	Sea Water	11/30/21 09:05	
C-11-W2	Marisa Swiderski/Kate Buckley	1L01055-11	Sea Water	11/30/21 09:17	
C-12-W2	Marisa Swiderski/Kate Buckley	1L01055-12	Sea Water	11/30/21 08:40	
C-13-W2	Marisa Swiderski/Kate Buckley	1L01055-13	Sea Water	11/30/21 08:15	
C-REF-1-W2	Marisa Swiderski/Kate Buckley	1L01055-14	Sea Water	11/30/21 08:10	
C-REF-2-W2	Marisa Swiderski/Kate Buckley	1L01055-15	Sea Water	11/30/21 07:55	
FB-W2	Marisa Swiderski/Kate Buckley	1L01055-16	Water	11/30/21 07:40	
N8-ER-W2	Marisa Swiderski/Kate Buckley	1L01055-17	Water	11/30/21 07:50	
E-14-W2	Marisa Swiderski/Kate Buckley	1L01055-18	Sea Water	11/30/21 12:10	
E-15-W2	Marisa Swiderski/Kate Buckley	1L01055-19	Sea Water	11/30/21 11:15	
E-16-W2	Marisa Swiderski/Kate Buckley	1L01055-20	Sea Water	11/30/21 10:20	
E-17-W2	Marisa Swiderski/Kate Buckley	1L01055-21	Sea Water	11/30/21 10:07	
E-18-W2	Marisa Swiderski/Kate Buckley	1L01055-22	Sea Water	11/30/21 09:15	
E-18-Dup-W2	Marisa Swiderski/Kate Buckley	1L01055-23	Sea Water	11/30/21 09:30	
E-19-W2	Marisa Swiderski/Kate Buckley	1L01055-24	Sea Water	11/30/21 08:55	
E-20-W2	Marisa Swiderski/Kate Buckley	1L01055-25	Sea Water	11/30/21 08:30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

12/30/2021 18:15

**Project Manager:** Rolf Schottle

## Sample Results

Sample: C-1-W2 Sampled: 11/30/21 10:30 by Marisa Swiderski/Kate Buckley

1L01055-01 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/15/21 12:52	<b>Analyst:</b> ALN			
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

Sample: C-2-W2 Sampled: 11/30/21 12:30 by Marisa Swiderski/Kate Buckley

1L01055-02 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/15/21 12:52	<b>Analyst:</b> ALN			
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

Sample: C-3-W2 Sampled: 11/30/21 11:35 by Marisa Swiderski/Kate Buckley

1L01055-03 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/15/21 12:52	<b>Analyst:</b> ALN			
<b>Copper, Dissolved</b>	9.9	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

Sample: C-4-W2 Sampled: 11/30/21 10:40 by Marisa Swiderski/Kate Buckley

1L01055-04 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/15/21 12:52	<b>Analyst:</b> ALN			
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

Sample: C-5-W2 Sampled: 11/30/21 10:18 by Marisa Swiderski/Kate Buckley

1L01055-05 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/15/21 12:52	<b>Analyst:</b> ALN			
<b>Copper, Dissolved</b>	9.4	0.0038	0.010	ug/l	1	12/15/21	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
12/30/2021 18:15

## Sample Results

(Continued)

Sample: C-6-W2  
1L01055-06 (Sea Water)

Sampled: 11/30/21 9:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	12	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

(Continued)

Sample: C-7-W2  
1L01055-07 (Sea Water)

Sampled: 11/30/21 9:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.9	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

(Continued)

Sample: C-8-W2  
1L01055-08 (Sea Water)

Sampled: 11/30/21 9:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.8	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

(Continued)

Sample: C-9-W2  
1L01055-09 (Sea Water)

Sampled: 11/30/21 9:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	ND	0.0038	0.010	ug/l	1	12/15/21	

## Sample Results

(Continued)

Sample: C-10-W2  
1L01055-10 (Sea Water)

Sampled: 11/30/21 9:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1038	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	ND	0.0038	0.010	ug/l	1	12/15/21	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
12/30/2021 18:15

## Sample Results

(Continued)

Sample: C-11-W2 Sampled: 11/30/21 9:17 by Marisa Swiderski/Kate Buckley

1L01055-11 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.2	0.0038	0.010	ug/l	1	12/29/21	

## Sample Results

(Continued)

Sample: C-12-W2 Sampled: 11/30/21 8:40 by Marisa Swiderski/Kate Buckley

1L01055-12 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.1	0.0038	0.010	ug/l	1	12/29/21	

## Sample Results

(Continued)

Sample: C-13-W2 Sampled: 11/30/21 8:15 by Marisa Swiderski/Kate Buckley

1L01055-13 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	3.5	0.0038	0.010	ug/l	1	12/29/21	

## Sample Results

(Continued)

Sample: C-REF-1-W2 Sampled: 11/30/21 8:10 by Marisa Swiderski/Kate Buckley

1L01055-14 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.1	0.0038	0.010	ug/l	1	12/29/21	

## Sample Results

(Continued)

Sample: C-REF-2-W2 Sampled: 11/30/21 7:55 by Marisa Swiderski/Kate Buckley

1L01055-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.5	0.0038	0.010	ug/l	1	12/29/21	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
12/30/2021 18:15

## Sample Results

(Continued)

Sample: FB-W2 Sampled: 11/30/21 7:40 by Marisa Swiderski/Kate Buckley

1L01055-16 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W1L1041

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 12/15/21 12:57

**Analyst:** ALN

Copper, Dissolved ND 0.0038 0.010 ug/l 1 12/29/21

## Sample Results

(Continued)

Sample: N8-ER-W2 Sampled: 11/30/21 7:50 by Marisa Swiderski/Kate Buckley

1L01055-17 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W1L1041

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 12/15/21 12:57

**Analyst:** ALN

Copper, Dissolved 0.093 0.0038 0.010 ug/l 1 12/29/21

## Sample Results

(Continued)

Sample: E-14-W2 Sampled: 11/30/21 12:10 by Marisa Swiderski/Kate Buckley

1L01055-18 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W1L1041

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 12/15/21 12:57

**Analyst:** ALN

Copper, Dissolved 10 0.0038 0.010 ug/l 1 12/29/21

## Sample Results

(Continued)

Sample: E-15-W2 Sampled: 11/30/21 11:15 by Marisa Swiderski/Kate Buckley

1L01055-19 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W1L1041

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 12/15/21 12:57

**Analyst:** ALN

Copper, Dissolved 13 0.0038 0.010 ug/l 1 12/29/21

## Sample Results

(Continued)

Sample: E-16-W2 Sampled: 11/30/21 10:20 by Marisa Swiderski/Kate Buckley

1L01055-20 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W1L1041

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 12/15/21 12:57

**Analyst:** ALN

Copper, Dissolved 13 0.0038 0.010 ug/l 1 12/29/21

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
12/30/2021 18:15

## Sample Results

(Continued)

Sample: E-17-W2 Sampled: 11/30/21 10:07 by Marisa Swiderski/Kate Buckley

1L01055-21 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	14	0.0038	0.010	ug/l	1	12/29/21	

## Sample Results

(Continued)

Sample: E-18-W2 Sampled: 11/30/21 9:15 by Marisa Swiderski/Kate Buckley

1L01055-22 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	12/29/21	

## Sample Results

(Continued)

Sample: E-18-Dup-W2 Sampled: 11/30/21 9:30 by Marisa Swiderski/Kate Buckley

1L01055-23 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	12	0.0038	0.010	ug/l	1	12/29/21	

## Sample Results

(Continued)

Sample: E-19-W2 Sampled: 11/30/21 8:55 by Marisa Swiderski/Kate Buckley

1L01055-24 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	12/29/21	

## Sample Results

(Continued)

Sample: E-20-W2 Sampled: 11/30/21 8:30 by Marisa Swiderski/Kate Buckley

1L01055-25 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L1041	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.9	0.0038	0.010	ug/l	1	12/29/21	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

12/30/2021 18:15

**Project Manager:** Rolf Schottle

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W1L1038 - EPA 1640</b>											
<b>Blank (W1L1038-BLK1)</b>					<b>Prepared &amp; Analyzed: 12/15/21</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W1L1038-BS1)</b>					<b>Prepared &amp; Analyzed: 12/15/21</b>						
Copper, Dissolved	10.8	0.0038	0.010	ug/l	10.0		108	70-130			
<b>Matrix Spike (W1L1038-MS1)</b>					<b>Prepared &amp; Analyzed: 12/15/21</b>						
Copper, Dissolved	20.9	0.0038	0.010	ug/l	10.0	10.4	105	70-130			
<b>Matrix Spike Dup (W1L1038-MSD1)</b>					<b>Prepared: 12/15/21 Analyzed: 12/16/21</b>						
Copper, Dissolved	20.6	0.0038	0.010	ug/l	10.0	10.4	103	70-130	1	30	
<b>Batch: W1L1041 - EPA 1640</b>											
<b>Blank (W1L1041-BLK1)</b>					<b>Prepared: 12/15/21 Analyzed: 12/29/21</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W1L1041-BS1)</b>					<b>Prepared: 12/15/21 Analyzed: 12/29/21</b>						
Copper, Dissolved	10.8	0.0038	0.010	ug/l	10.0		108	70-130			
<b>Matrix Spike (W1L1041-MS1)</b>					<b>Prepared: 12/15/21 Analyzed: 12/29/21</b>						
Copper, Dissolved	18.8	0.0038	0.010	ug/l	10.0	7.19	116	70-130			
<b>Matrix Spike (W1L1041-MS2)</b>					<b>Prepared: 12/15/21 Analyzed: 12/29/21</b>						
Copper, Dissolved	22.8	0.0038	0.010	ug/l	10.0	11.2	116	70-130			
<b>Matrix Spike Dup (W1L1041-MSD1)</b>					<b>Prepared: 12/15/21 Analyzed: 12/29/21</b>						
Copper, Dissolved	19.5	0.0038	0.010	ug/l	10.0	7.19	123	70-130	4	30	
<b>Matrix Spike Dup (W1L1041-MSD2)</b>					<b>Prepared: 12/15/21 Analyzed: 12/29/21</b>						
Copper, Dissolved	23.1	0.0038	0.010	ug/l	10.0	11.2	120	70-130	1	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
12/30/2021 18:15

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

## CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ [www.wecklabs.com](http://www.wecklabs.com)

STANDARD 1201055

Page 1 Of 3

[illegible]

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottletop filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.





## **WEEK 2 REANALYSES ANALYTICAL RESULTS**



Work Orders: 1L01055

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Rolf Schottle

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 6/21/2022

Received Date: 12/1/2021

Turnaround Time: Normal

Phones: (858) 300-4323

Fax: (858) 278-5300

P.O. #:

Billing Code:

DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH #4047 • ISO17025 ANAB  
#L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Rolf Schottle,

Enclosed are the results of analyses for samples received 12/01/21 with the Chain-of-Custody document. The samples were received in good condition, at 5.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Rolf Schottle

**Reported:**  
06/21/2022 13:14

# Certificate of Analysis

## SUPPLEMENTAL REPORT

### Case Narrative

This is a Supplement to the Certificate of Analysis previously issued 2/9/22 for the above referenced Project to only report select re-analysis results.

-CSS 6/21/22

### Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-9-W2	Marisa Swiderski/Kate Buckley	1L01055-09	Sea Water	11/30/21 09:35	
C-10-W2	Marisa Swiderski/Kate Buckley	1L01055-10	Sea Water	11/30/21 09:05	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
06/21/2022 13:14

**Project Manager:** Rolf Schottle

## Sample Results

Sample: C-9-W2  
1L01055-09RE1 (Sea Water)

Sampled: 11/30/21 9:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>						
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration	<b>Prepared:</b> 12/29/21 16:20				<b>Analyst:</b> tbd
<b>Copper, Dissolved</b>	11	0.010	ug/l	1	01/28/22	

## Sample Results

Sample: C-10-W2  
1L01055-10RE1 (Sea Water)

Sampled: 11/30/21 9:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>						
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration	<b>Prepared:</b> 12/29/21 16:20				<b>Analyst:</b> tbd
<b>Copper, Dissolved</b>	10	0.010	ug/l	1	01/28/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
06/21/2022 13:14

**Project Manager:** Rolf Schottle

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W1L2014 - EPA 1640</b>										
<b>Blank (W1L2014-BLK1)</b>				<b>Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	0.0160	0.010	ug/l							B-06
<b>LCS (W1L2014-BS1)</b>				<b>Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	10.9	0.010	ug/l	10.0		109	70-130			
<b>Matrix Spike (W1L2014-MS1)</b>				<b>Source: 1L08094-10 Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	19.2	0.010	ug/l	10.0	10.2	90	70-130			
<b>Matrix Spike (W1L2014-MS2)</b>				<b>Source: 1L08094-18 Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	11.3	0.010	ug/l	10.0	0.435	109	70-130			
<b>Matrix Spike Dup (W1L2014-MSD1)</b>				<b>Source: 1L08094-10 Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	18.4	0.010	ug/l	10.0	10.2	82	70-130	4	30	
<b>Matrix Spike Dup (W1L2014-MSD2)</b>				<b>Source: 1L08094-18 Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	11.3	0.010	ug/l	10.0	0.435	109	70-130	0.2	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
06/21/2022 13:14

**Project Manager:** Rolf Schottle

## Notes and Definitions

Item	Definition
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
%REC	Percent Recovery
Dil	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

## **WEEK 3 ANALYTICAL RESULTS**



Work Orders: 1L08094

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/04/2022

Received Date: 12/8/2021

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 12/08/21 with the Chain-of-Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/04/2022 12:53

**Project Manager:** Marisa Swiderski

## Case Narrative

Report revised with corrected analytical instrument ID.

-CSS 2/4/22

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W3	Marisa Swiderski/Kate Buckley	1L08094-01	Sea Water	12/07/21 10:40	
C-2-W3	Marisa Swiderski/Kate Buckley	1L08094-02	Sea Water	12/07/21 11:00	
C-3-W3	Marisa Swiderski/Kate Buckley	1L08094-03	Sea Water	12/07/21 10:30	
C-4-W3	Marisa Swiderski/Kate Buckley	1L08094-04	Sea Water	12/07/21 10:00	
C-5-W3	Marisa Swiderski/Kate Buckley	1L08094-05	Sea Water	12/07/21 10:25	
C-6-W3	Marisa Swiderski/Kate Buckley	1L08094-06	Sea Water	12/07/21 09:25	
C-7-W3	Marisa Swiderski/Kate Buckley	1L08094-07	Sea Water	12/07/21 10:15	
C-8-W3	Marisa Swiderski/Kate Buckley	1L08094-08	Sea Water	12/07/21 10:00	
C-9-W3	Marisa Swiderski/Kate Buckley	1L08094-09	Sea Water	12/07/21 09:45	
C-10-W3	Marisa Swiderski/Kate Buckley	1L08094-10	Sea Water	12/07/21 09:05	
C-10-Dup-W3	Marisa Swiderski/Kate Buckley	1L08094-11	Sea Water	12/07/21 09:15	
C-11-W3	Marisa Swiderski/Kate Buckley	1L08094-12	Sea Water	12/07/21 09:35	
C-12-W3	Marisa Swiderski/Kate Buckley	1L08094-13	Sea Water	12/07/21 08:45	
C-13-W3	Marisa Swiderski/Kate Buckley	1L08094-14	Sea Water	12/07/21 08:50	
C-REF-1-W3	Marisa Swiderski/Kate Buckley	1L08094-15	Sea Water	12/07/21 08:30	
C-REF-2-W3	Marisa Swiderski/Kate Buckley	1L08094-16	Sea Water	12/07/21 08:15	
FB-W3	Marisa Swiderski/Kate Buckley	1L08094-17	Water	12/07/21 08:10	
N3-ER-W3	Marisa Swiderski/Kate Buckley	1L08094-18	Water	12/07/21 08:25	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/04/2022 12:53

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W3

Sampled: 12/07/21 10:40 by Marisa Swiderski/Kate Buckley

1L08094-01 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/29/21 16:20	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

Sample: C-2-W3

Sampled: 12/07/21 11:00 by Marisa Swiderski/Kate Buckley

1L08094-02 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/29/21 16:20	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

Sample: C-3-W3

Sampled: 12/07/21 10:30 by Marisa Swiderski/Kate Buckley

1L08094-03 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/29/21 16:20	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

Sample: C-4-W3

Sampled: 12/07/21 10:00 by Marisa Swiderski/Kate Buckley

1L08094-04 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/29/21 16:20	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	7.4	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

Sample: C-5-W3

Sampled: 12/07/21 10:25 by Marisa Swiderski/Kate Buckley

1L08094-05 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/29/21 16:20	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	7.9	0.0038	0.010	ug/l	1	01/28/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/04/2022 12:53

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-6-W3 Sampled: 12/07/21 9:25 by Marisa Swiderski/Kate Buckley

1L08094-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 12/29/21 16:20			<b>Analyst:</b> tbd	
<b>Copper, Dissolved</b>	<b>10</b>	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-7-W3 Sampled: 12/07/21 10:15 by Marisa Swiderski/Kate Buckley

1L08094-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 12/29/21 16:20			<b>Analyst:</b> tbd	
<b>Copper, Dissolved</b>	<b>8.1</b>	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-8-W3 Sampled: 12/07/21 10:00 by Marisa Swiderski/Kate Buckley

1L08094-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 12/29/21 16:20			<b>Analyst:</b> tbd	
<b>Copper, Dissolved</b>	<b>6.2</b>	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-9-W3 Sampled: 12/07/21 9:45 by Marisa Swiderski/Kate Buckley

1L08094-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 12/29/21 16:20			<b>Analyst:</b> tbd	
<b>Copper, Dissolved</b>	<b>11</b>	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-10-W3 Sampled: 12/07/21 9:05 by Marisa Swiderski/Kate Buckley

1L08094-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 12/29/21 16:20			<b>Analyst:</b> tbd	
<b>Copper, Dissolved</b>	<b>10</b>	0.0038	0.010	ug/l	1	01/28/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/04/2022 12:53

**Project Manager:** Marisa Swiderski

(Continued)

## Sample Results

Sample: C-10-Dup-W3  
1L08094-11 (Sea Water)

Sampled: 12/07/21 9:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> tbd
<b>Copper, Dissolved</b>	8.6	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-11-W3  
1L08094-12 (Sea Water)

Sampled: 12/07/21 9:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> tbd
<b>Copper, Dissolved</b>	8.1	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-12-W3  
1L08094-13 (Sea Water)

Sampled: 12/07/21 8:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> tbd
<b>Copper, Dissolved</b>	3.1	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-13-W3  
1L08094-14 (Sea Water)

Sampled: 12/07/21 8:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> tbd
<b>Copper, Dissolved</b>	1.6	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-REF-1-W3  
1L08094-15 (Sea Water)

Sampled: 12/07/21 8:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> tbd
<b>Copper, Dissolved</b>	0.40	0.0038	0.010	ug/l	1	01/28/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/04/2022 12:53

**Project Manager:** Marisa Swiderski

(Continued)

## Sample Results

Sample: C-REF-2-W3  
1L08094-16 (Sea Water)

Sampled: 12/07/21 8:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/29/21 16:20	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	0.44	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: FB-W3  
1L08094-17 (Water)

Sampled: 12/07/21 8:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/29/21 16:20	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	0.029	0.0038	0.010	ug/l	1	01/28/22	B-08

## Sample Results

(Continued)

Sample: N3-ER-W3  
1L08094-18 (Water)

Sampled: 12/07/21 8:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W1L2014	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 12/29/21 16:20	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	0.44	0.0038	0.010	ug/l	1	01/28/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/04/2022 12:53

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W1L2014 - EPA 1640</b>											
<b>Blank (W1L2014-BLK1)</b>					<b>Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	0.0160	0.0038	0.010	ug/l							B-06
<b>LCS (W1L2014-BS1)</b>					<b>Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	10.9	0.0038	0.010	ug/l	10.0		109	70-130			
<b>Matrix Spike (W1L2014-MS1)</b>					<b>Source: 1L08094-10 Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	19.2	0.0038	0.010	ug/l	10.0	10.2	90	70-130			
<b>Matrix Spike (W1L2014-MS2)</b>					<b>Source: 1L08094-18 Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	11.3	0.0038	0.010	ug/l	10.0	0.435	109	70-130			
<b>Matrix Spike Dup (W1L2014-MSD1)</b>					<b>Source: 1L08094-10 Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	18.4	0.0038	0.010	ug/l	10.0	10.2	82	70-130	4	30	
<b>Matrix Spike Dup (W1L2014-MSD2)</b>					<b>Source: 1L08094-18 Prepared: 12/29/21 Analyzed: 01/28/22</b>						
Copper, Dissolved	11.3	0.0038	0.010	ug/l	10.0	0.435	109	70-130	0.2	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/04/2022 12:53

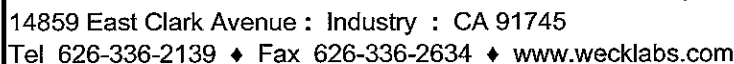
## Notes and Definitions

Item	Definition
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
B-08	Analyte is found in the method blank, which was possibly contaminated during sample preparation.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



### Analytical Laboratory Services - Since 1964

1L08094

## STANDARD

Page 1 Of 2

CLIENT NAME:  Wood Environment & Infrastructure Solutions, Inc.				PROJECT:  SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em; margin-right: 5px;">             Dissolved Copper<sup>1,2</sup>              Method EPA 1631 MCL 0.0038 ug/L RL= 0.01 ug/L         </div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> </div>																														SPECIAL HANDLING <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em; margin-right: 5px;">             Same Day Rush 150%              24 Hour Rush 100%              48-72 Hour Rush 75%              4 - 5 Day Rush 30%              Rush Extractions 50%              10 Business Days              QA/QC Data Package         </div> </div>	
ADDRESS:  9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a> <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>																																	
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Kate Buckley (KB)														Charges will apply for weekends/holidays																			
																		Method of Shipment:																			
																		COMMENTS																			
ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.																																
	12/07/21	10:40	seawater	C-1-W3	1	X																															
	12/07/21	11:00	seawater	C-2-W3	1	X																															
	12/07/21	10:30	seawater	C-3-W3	1	X																															
	12/07/21	10:00	seawater	C-4-W3	1	X																															
	12/07/21	10:25	seawater	C-5-W3	1	X																															
	12/07/21	9:25	seawater	C-6-W3	1	X																															
	12/07/21	10:15	seawater	C-7-W3	1	X																															
	12/07/21	10:00	seawater	C-8-W3	1	X																															
	12/07/21	9:45	seawater	C-9-W3	1	X																															
	12/07/21	9:05	seawater	C-10-W3	1	X																															
	12/07/21	9:15	seawater	C-10-Dup-W3	1	X												extra vol. analyze sample MS/MSD																			
RELINQUISHED BY <i>Marisa Swiderski</i>				DATE / TIME 12/08/2021 0900		RECEIVED BY <i>Magaly 12-8-21 / 9:00</i>						SAMPLE CONDITION: Actual Temperature: <i>28°C</i>						SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix																			
RELINQUISHED BY <i>Magaly</i>				DATE / TIME 12-8-21 / 13:35		RECEIVED BY <i>Jonathan 12/08/21 1335</i>						Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab																									
RELINQUISHED BY				DATE / TIME		RECEIVED BY						<i>70454</i> <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em; margin-right: 5px;">             Y/N Y/N Y/N Y/N           </div> </div>																									

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottletop filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L.
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.



## **WEEK 4 ANALYTICAL RESULTS**

Work Orders: 1L14074

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/04/2022

Received Date: 12/14/2021

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 12/14/21 with the Chain-of-Custody document. The samples were received in good condition, at 5.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager





Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/04/2022 10:44

**Project Manager:** Marisa Swiderski

## Case Narrative

Final Report: This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W4	Marisa Swiderski/Kate Buckley	1L14074-01	Sea Water	12/13/21 12:10	
C-2-W4	Marisa Swiderski/Kate Buckley	1L14074-02	Sea Water	12/13/21 12:05	
C-3-W4	Marisa Swiderski/Kate Buckley	1L14074-03	Sea Water	12/13/21 11:25	
C-4-W4	Marisa Swiderski/Kate Buckley	1L14074-04	Sea Water	12/13/21 10:45	
C-5-W4	Marisa Swiderski/Kate Buckley	1L14074-05	Sea Water	12/13/21 11:50	
C-6-W4	Marisa Swiderski/Kate Buckley	1L14074-06	Sea Water	12/13/21 10:05	
C-7-W4	Marisa Swiderski/Kate Buckley	1L14074-07	Sea Water	12/13/21 11:30	
C-8-W4	Marisa Swiderski/Kate Buckley	1L14074-08	Sea Water	12/13/21 11:15	
C-9-W4	Marisa Swiderski/Kate Buckley	1L14074-09	Sea Water	12/13/21 11:00	
C-10-W4	Marisa Swiderski/Kate Buckley	1L14074-10	Sea Water	12/13/21 10:30	
C-11-W4	Marisa Swiderski/Kate Buckley	1L14074-11	Sea Water	12/13/21 10:50	
C-12-W4	Marisa Swiderski/Kate Buckley	1L14074-12	Sea Water	12/13/21 10:05	
C-13-W4	Marisa Swiderski/Kate Buckley	1L14074-13	Sea Water	12/13/21 09:20	
C-REF-1-W4	Marisa Swiderski/Kate Buckley	1L14074-14	Sea Water	12/13/21 09:20	
C-REF-2-W4	Marisa Swiderski/Kate Buckley	1L14074-15	Sea Water	12/13/21 09:05	
FB-W4	Marisa Swiderski/Kate Buckley	1L14074-16	Water	12/13/21 08:40	
N8-ER-W4	Marisa Swiderski/Kate Buckley	1L14074-17	Water	12/13/21 08:55	
E-14-W4	Marisa Swiderski/Kate Buckley	1L14074-18	Sea Water	12/13/21 11:55	
E-15-W4	Marisa Swiderski/Kate Buckley	1L14074-19	Sea Water	12/13/21 11:10	
E-16-W4	Marisa Swiderski/Kate Buckley	1L14074-20	Sea Water	12/13/21 10:30	
E-17-W4	Marisa Swiderski/Kate Buckley	1L14074-21	Sea Water	12/13/21 11:40	
E-18-W4	Marisa Swiderski/Kate Buckley	1L14074-22	Sea Water	12/13/21 09:50	
E-19-W4	Marisa Swiderski/Kate Buckley	1L14074-23	Sea Water	12/13/21 10:25	
E-20--W4	Marisa Swiderski/Kate Buckley	1L14074-24	Sea Water	12/13/21 09:40	
E-20--Dup-W4	Marisa Swiderski/Kate Buckley	1L14074-25	Sea Water	12/13/21 09:45	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/04/2022 10:44

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W4

Sampled: 12/13/21 12:10 by Marisa Swiderski/Kate Buckley

1L14074-01 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	13	0.0038	0.010	ug/l	1	02/03/22	

## Sample Results

Sample: C-2-W4

Sampled: 12/13/21 12:05 by Marisa Swiderski/Kate Buckley

1L14074-02 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	16	0.0038	0.010	ug/l	1	02/03/22	

## Sample Results

Sample: C-3-W4

Sampled: 12/13/21 11:25 by Marisa Swiderski/Kate Buckley

1L14074-03 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	15	0.0038	0.010	ug/l	1	02/03/22	

## Sample Results

Sample: C-4-W4

Sampled: 12/13/21 10:45 by Marisa Swiderski/Kate Buckley

1L14074-04 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	14	0.0038	0.010	ug/l	1	02/03/22	

## Sample Results

Sample: C-5-W4

Sampled: 12/13/21 11:50 by Marisa Swiderski/Kate Buckley

1L14074-05 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	14	0.0038	0.010	ug/l	1	02/03/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/04/2022 10:44

**Project Manager:** Marisa Swiderski

(Continued)

## Sample Results

Sample: C-6-W4

Sampled: 12/13/21 10:05 by Marisa Swiderski/Kate Buckley

1L14074-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	13	0.0038	0.010	ug/l	1	02/03/22	

## Sample Results

(Continued)

Sample: C-7-W4

Sampled: 12/13/21 11:30 by Marisa Swiderski/Kate Buckley

1L14074-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	12	0.0038	0.010	ug/l	1	02/03/22	

## Sample Results

(Continued)

Sample: C-8-W4

Sampled: 12/13/21 11:15 by Marisa Swiderski/Kate Buckley

1L14074-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	9.7	0.0038	0.010	ug/l	1	02/03/22	

## Sample Results

(Continued)

Sample: C-9-W4

Sampled: 12/13/21 11:00 by Marisa Swiderski/Kate Buckley

1L14074-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	13	0.0038	0.010	ug/l	1	02/03/22	

## Sample Results

(Continued)

Sample: C-10-W4

Sampled: 12/13/21 10:30 by Marisa Swiderski/Kate Buckley

1L14074-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS07				
<b>Batch ID:</b> W2A1833	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 01/27/22 18:03	<b>Analyst:</b> tbd			
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	02/03/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/04/2022 10:44

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-11-W4 Sampled: 12/13/21 10:50 by Marisa Swiderski/Kate Buckley

1L14074-11 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 01/28/22 12:38			<b>Analyst:</b> aln	
<b>Copper, Dissolved</b>	<b>7.3</b>	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-12-W4 Sampled: 12/13/21 10:05 by Marisa Swiderski/Kate Buckley

1L14074-12 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 01/28/22 12:38			<b>Analyst:</b> aln	
<b>Copper, Dissolved</b>	<b>5.9</b>	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-13-W4 Sampled: 12/13/21 9:20 by Marisa Swiderski/Kate Buckley

1L14074-13 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 01/28/22 12:38			<b>Analyst:</b> aln	
<b>Copper, Dissolved</b>	<b>3.6</b>	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-REF-1-W4 Sampled: 12/13/21 9:20 by Marisa Swiderski/Kate Buckley

1L14074-14 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 01/28/22 12:38			<b>Analyst:</b> aln	
<b>Copper, Dissolved</b>	<b>0.76</b>	0.0038	0.010	ug/l	1	01/28/22	

## Sample Results

(Continued)

Sample: C-REF-2-W4 Sampled: 12/13/21 9:05 by Marisa Swiderski/Kate Buckley

1L14074-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS07				
			<b>Prepared:</b> 01/28/22 12:38			<b>Analyst:</b> aln	
<b>Copper, Dissolved</b>	<b>0.81</b>	0.0038	0.010	ug/l	1	01/28/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/04/2022 10:44

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: FB-W4 Sampled: 12/13/21 8:40 by Marisa Swiderski/Kate Buckley

1L14074-16 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2A1882

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 01/28/22 12:38

**Analyst:** aln

Copper, Dissolved ND 0.0038 0.010 ug/l 1 01/28/22

## Sample Results

(Continued)

Sample: N8-ER-W4 Sampled: 12/13/21 8:55 by Marisa Swiderski/Kate Buckley

1L14074-17 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2A1882

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 01/28/22 12:38

**Analyst:** aln

Copper, Dissolved 0.24 0.0038 0.010 ug/l 1 01/28/22

## Sample Results

(Continued)

Sample: E-14-W4 Sampled: 12/13/21 11:55 by Marisa Swiderski/Kate Buckley

1L14074-18 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2A1882

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 01/28/22 12:38

**Analyst:** aln

Copper, Dissolved 10 0.0038 0.010 ug/l 1 01/28/22

## Sample Results

(Continued)

Sample: E-15-W4 Sampled: 12/13/21 11:10 by Marisa Swiderski/Kate Buckley

1L14074-19 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2A1882

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 01/28/22 12:38

**Analyst:** aln

Copper, Dissolved 10 0.0038 0.010 ug/l 1 01/28/22

## Sample Results

(Continued)

Sample: E-16-W4 Sampled: 12/13/21 10:30 by Marisa Swiderski/Kate Buckley

1L14074-20 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2A1882

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 01/28/22 12:38

**Analyst:** aln

Copper, Dissolved 9.9 0.0038 0.010 ug/l 1 01/28/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/04/2022 10:44

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: E-17-W4 Sampled: 12/13/21 11:40 by Marisa Swiderski/Kate Buckley

1L14074-21 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> aln
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	01/29/22	

## Sample Results

(Continued)

Sample: E-18-W4 Sampled: 12/13/21 9:50 by Marisa Swiderski/Kate Buckley

1L14074-22 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> aln
<b>Copper, Dissolved</b>	12	0.0038	0.010	ug/l	1	01/29/22	

## Sample Results

(Continued)

Sample: E-19-W4 Sampled: 12/13/21 10:25 by Marisa Swiderski/Kate Buckley

1L14074-23 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> aln
<b>Copper, Dissolved</b>	9.3	0.0038	0.010	ug/l	1	01/29/22	

## Sample Results

(Continued)

Sample: E-20--W4 Sampled: 12/13/21 9:40 by Marisa Swiderski/Kate Buckley

1L14074-24 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> aln
<b>Copper, Dissolved</b>	6.0	0.0038	0.010	ug/l	1	01/29/22	

## Sample Results

(Continued)

Sample: E-20--Dup-W4 Sampled: 12/13/21 9:45 by Marisa Swiderski/Kate Buckley

1L14074-25 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2A1882	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> aln
<b>Copper, Dissolved</b>	6.4	0.0038	0.010	ug/l	1	01/29/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/04/2022 10:44

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2A1833 - EPA 1640</b>											
<b>Blank (W2A1833-BLK1)</b>					<b>Prepared: 01/27/22 Analyzed: 02/03/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2A1833-BS1)</b>					<b>Prepared: 01/27/22 Analyzed: 02/03/22</b>						
Copper, Dissolved	9.54	0.0038	0.010	ug/l	10.0		95	70-130			
<b>Matrix Spike (W2A1833-MS1)</b>					<b>Prepared: 01/27/22 Analyzed: 02/03/22</b>						
Copper, Dissolved	19.3	0.0038	0.010	ug/l	10.0	11.3	80	70-130			
<b>Matrix Spike Dup (W2A1833-MSD1)</b>					<b>Prepared: 01/27/22 Analyzed: 02/03/22</b>						
Copper, Dissolved	19.9	0.0038	0.010	ug/l	10.0	11.3	86	70-130	3	30	
<b>Batch: W2A1882 - EPA 1640</b>											
<b>Blank (W2A1882-BLK1)</b>					<b>Prepared &amp; Analyzed: 01/28/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2A1882-BS1)</b>					<b>Prepared &amp; Analyzed: 01/28/22</b>						
Copper, Dissolved	9.52	0.0038	0.010	ug/l	10.0		95	70-130			
<b>Matrix Spike (W2A1882-MS1)</b>					<b>Prepared &amp; Analyzed: 01/28/22</b>						
Copper, Dissolved	19.7	0.0038	0.010	ug/l	10.0	9.91	97	70-130			
<b>Matrix Spike (W2A1882-MS2)</b>					<b>Prepared: 01/28/22 Analyzed: 01/29/22</b>						
Copper, Dissolved	15.4	0.0038	0.010	ug/l	10.0	6.44	90	70-130			
<b>Matrix Spike Dup (W2A1882-MSD1)</b>					<b>Prepared &amp; Analyzed: 01/28/22</b>						
Copper, Dissolved	20.0	0.0038	0.010	ug/l	10.0	9.91	101	70-130	2	30	
<b>Matrix Spike Dup (W2A1882-MSD2)</b>					<b>Prepared: 01/28/22 Analyzed: 01/29/22</b>						
Copper, Dissolved	15.9	0.0038	0.010	ug/l	10.0	6.44	95	70-130	3	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/04/2022 10:44

**Project Manager:** Marisa Swiderski

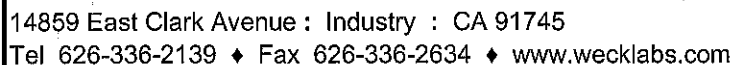
## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



**Analytical Laboratory Services - Since 1964**

## STANDARD

1 L14074

Page 1 Of 3

CLIENT NAME:				PROJECT:		ANALYSES REQUESTED										SPECIAL HANDLING									
Wood Environment & Infrastructure Solutions, Inc.				SIYB IWHC Pause Pilot Study (Port of San Diego)		Disolved Copper <sup>1,2</sup> Method EPA 1631 MDL 0.0038 µg/L RL= 0.01 µg/L										<input type="checkbox"/> Same Day Rush 150%									
ADDRESS:				PHONE: 858-300-4324												<input type="checkbox"/> 24 Hour Rush 100%									
9177 Sky Park Ct.				FAX: 858-300-4301												<input type="checkbox"/> 48-72 Hour Rush 75%									
San Diego, CA 92123				EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a> <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>												<input type="checkbox"/> 4 - 5 Day Rush 30%									
PROJECT MANAGER				SAMPLER												<input type="checkbox"/> Rush Extractions 50%									
Marisa Swiderski				Marisa Swiderski (MS) / Kate Buckley (KB)												<input checked="" type="checkbox"/> 10 Business Days									
ID# (For Lab Use Only)				DATE SAMPLED		TIME SAMPLED		SMPL TYPE		SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.												Charges will apply for weekends/holidays	
																								Method of Shipment:	
																								COMMENTS	
12/13/21				12:10		seawater		C-1-W4		1		X													
12/13/21				12:05		seawater		C-2-W4		1		X													
12/13/21				11:25		seawater		C-3-W4		1		X													
12/13/21				10:45		seawater		C-4-W4		1		X													
12/13/21				11:50		seawater		C-5-W4		1		X													
12/13/21				10:05		seawater		C-6-W4		1		X													
12/13/21				11:30		seawater		C-7-W4		1		X													
12/13/21				11:15		seawater		C-8-W4		1		X													
12/13/21				11:00		seawater		C-9-W4		1		X													
12/13/21				10:30		seawater		C-10-W4		1		X													
12/13/21				10:50		seawater		C-11-W4		1		X													
RELINQUISHED BY				DATE / TIME				RECEIVED BY				SAMPLE CONDITION:				SAMPLE TYPE CODE:									
Marisa Swiderski				12/14/2021 1050				Ashley Pinuelas				Actual Temperature: 5.32				AQ=Aqueous NA= Non Aqueous SL = Sludge									
RELINQUISHED BY				DATE / TIME				RECEIVED BY				Received On Ice				Y / N									
Ashley Pinuelas				12/14/2021				[Signature]				Preserved				Y / N									
RELINQUISHED BY				DATE / TIME				RECEIVED BY				Evidence Seals Present				Y / N									
												Container Intact				Y / N									
												Preserved at Lab				Y / N									
												T-0254													
																DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix									

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

STANDARD

Page 2 Of 3

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.				PROJECT: SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED										SPECIAL HANDLING		
ADDRESS: 9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: marisa.swiderski@woodplc.com barry.snyder@woodplc.com		<div>Method EPA 1640 MDL 0.0038 µg/L RL= 0.01 µg/L</div> <div>Dissolved Copper<sup>12</sup></div>										Same Day Rush 150% 24 Hour Rush 100% 48-72 Hour Rush 75% 4 - 5 Day Rush 30% Rush Extractions 50% 10 Business Days QA/QC Data Package		
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Kate Buckley (KB)												Charges will apply for weekends/holidays		
ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.											Method of Shipment:	
12	12/13/21	10:05	seawater	C-12-W4		1	X										COMMENTS	
	12/13/21	9:20	seawater	C-13-W4		1	X											
	12/13/21	9:20	seawater	C-REF-1-W4		1	X											
	12/13/21	9:05	seawater	C-REF-2-W4		1	X											
	12/13/21	8:40	DI	FB-W4		1	X											
17	12/13/21	8:55	DI	N8-ER-W4		1	X											
	12/13/21	11:55	seawater	E-14-W4		1	X											
	12/13/21	11:10	seawater	E-15-W4		1	X											
	12/13/21	10:30	seawater	E-16-W4		1	X											
	12/13/21	11:40	seawater	E-17-W4		1	X											
22	12/13/21	9:50	seawater	E-18-W4		1	X											

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 12/14/2021 1050	RECEIVED BY <i>Ashley Dinucias</i>	SAMPLE CONDITION: Actual Temperature: 5.3°C	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Ashley Dinucias</i>	DATE / TIME 12/14/2021	RECEIVED BY <i>[Signature]</i>	Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab	
RELINQUISHED BY	DATE / TIME	RECEIVED BY	T-0254	

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.
- 2) Dissolved metals were field filtered using 0.45 µm bottle-top filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 µg/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.



## **WEEK 4 STORM ANALYTICAL RESULTS**



Work Orders: 1L15061

Project: SIYB IWHC Pause Pilot Study (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/28/2022

Received Date: 12/15/2021

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 12/15/21 with the Chain-of-Custody document. The samples were received in good condition, at 4.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Case Narrative

Final Report: This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W4-S	Marisa Swiderski/Kate Buckley	1L15061-01	Sea Water	12/15/21 10:45	
C-2-W4-S	Marisa Swiderski/Kate Buckley	1L15061-02	Sea Water	12/15/21 11:05	
C-3-W4-S	Marisa Swiderski/Kate Buckley	1L15061-03	Sea Water	12/15/21 10:30	
C-4-W4-S	Marisa Swiderski/Kate Buckley	1L15061-04	Sea Water	12/15/21 09:55	
C-5-W4-S	Marisa Swiderski/Kate Buckley	1L15061-05	Sea Water	12/15/21 10:30	
C-6-W4-S	Marisa Swiderski/Kate Buckley	1L15061-06	Sea Water	12/15/21 09:05	
C-6-Dup-W4-S	Marisa Swiderski/Kate Buckley	1L15061-07	Sea Water	12/15/21 09:15	
C-7-W4-S	Marisa Swiderski/Kate Buckley	1L15061-08	Sea Water	12/15/21 10:15	
C-8-W4-S	Marisa Swiderski/Kate Buckley	1L15061-09	Sea Water	12/15/21 10:00	
C-9-W4-S	Marisa Swiderski/Kate Buckley	1L15061-10	Sea Water	12/15/21 09:45	
C-10-W4-S	Marisa Swiderski/Kate Buckley	1L15061-11	Sea Water	12/15/21 09:10	
C-11-W4-S	Marisa Swiderski/Kate Buckley	1L15061-12	Sea Water	12/15/21 09:25	
C-12-W4-S	Marisa Swiderski/Kate Buckley	1L15061-13	Sea Water	12/15/21 08:55	
C-13-W4-S	Marisa Swiderski/Kate Buckley	1L15061-14	Sea Water	12/15/21 08:30	
C-REF-1-W4-S	Marisa Swiderski/Kate Buckley	1L15061-15	Sea Water	12/15/21 08:40	
C-REF-2-W4-S	Marisa Swiderski/Kate Buckley	1L15061-16	Sea Water	12/15/21 08:30	
FB-W4-S	Marisa Swiderski/Kate Buckley	1L15061-17	Water	12/15/21 07:50	
N3-ER-W4-S	Marisa Swiderski/Kate Buckley	1L15061-18	Water	12/15/21 08:05	
OF-1-W4-S	Marisa Swiderski/Kate Buckley	1L15061-19	Water	12/14/21 13:20	
OF-2-W4-S	Marisa Swiderski/Kate Buckley	1L15061-20	Water	12/14/21 13:55	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Sample Results

Sample: C-1-W4-S  
1L15061-01 (Sea Water)

Sampled: 12/15/21 10:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640  
**Batch ID:** W2B0287  
**Copper, Dissolved**

**Preparation:** EPA 1640#Preconcentration

**Instr:** ICPMS07  
**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Result:** 12  
**MDL:** 0.0038  
**MRL:** 0.010  
**Units:** ug/l  
**Dil:** 1  
**Analyzed:** 02/04/22

**Method:** EPA 1640  
**Batch ID:** W2B0979  
**Copper, Total**

**Preparation:** \_NONE (METALS)

**Instr:** ICPMS03  
**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Result:** 14  
**MDL:** 0.0038  
**MRL:** 0.010  
**Units:** ug/l  
**Dil:** 1  
**Analyzed:** 02/14/22

## Sample Results

Sample: C-2-W4-S  
1L15061-02 (Sea Water)

Sampled: 12/15/21 11:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640  
**Batch ID:** W2B0287  
**Copper, Dissolved**

**Preparation:** EPA 1640#Preconcentration

**Instr:** ICPMS07  
**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Result:** 12  
**MDL:** 0.0038  
**MRL:** 0.010  
**Units:** ug/l  
**Dil:** 1  
**Analyzed:** 02/04/22

**Method:** EPA 1640  
**Batch ID:** W2B0979  
**Copper, Total**

**Preparation:** \_NONE (METALS)

**Instr:** ICPMS03  
**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Result:** 15  
**MDL:** 0.0038  
**MRL:** 0.010  
**Units:** ug/l  
**Dil:** 1  
**Analyzed:** 02/14/22

## Sample Results

Sample: C-3-W4-S  
1L15061-03 (Sea Water)

Sampled: 12/15/21 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640  
**Batch ID:** W2B0287  
**Copper, Dissolved**

**Preparation:** EPA 1640#Preconcentration

**Instr:** ICPMS07  
**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Result:** 12  
**MDL:** 0.0038  
**MRL:** 0.010  
**Units:** ug/l  
**Dil:** 1  
**Analyzed:** 02/04/22

**Method:** EPA 1640  
**Batch ID:** W2B0979  
**Copper, Total**

**Preparation:** \_NONE (METALS)

**Instr:** ICPMS03  
**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Result:** 13  
**MDL:** 0.0038  
**MRL:** 0.010  
**Units:** ug/l  
**Dil:** 1  
**Analyzed:** 02/14/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Sample Results

(Continued)

Sample: C-4-W4-S Sampled: 12/15/21 9:55 by Marisa Swiderski/Kate Buckley

1L15061-04 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **13** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **14** 0.0038 0.010 ug/l 1 02/14/22

## Sample Results

(Continued)

Sample: C-5-W4-S Sampled: 12/15/21 10:30 by Marisa Swiderski/Kate Buckley

1L15061-05 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **13** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **15** 0.0038 0.010 ug/l 1 02/14/22

## Sample Results

(Continued)

Sample: C-6-W4-S Sampled: 12/15/21 9:05 by Marisa Swiderski/Kate Buckley

1L15061-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **12** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **14** 0.0038 0.010 ug/l 1 02/14/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Sample Results

(Continued)

Sample: C-6-Dup-W4-S  
1L15061-07 (Sea Water)

Sampled: 12/15/21 9:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved**

12

0.0038

0.010

ug/l

1

02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total**

13

0.0038

0.010

ug/l

1

02/14/22

## Sample Results

(Continued)

Sample: C-7-W4-S  
1L15061-08 (Sea Water)

Sampled: 12/15/21 10:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved**

9.6

0.0038

0.010

ug/l

1

02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total**

11

0.0038

0.010

ug/l

1

02/14/22

## Sample Results

(Continued)

Sample: C-8-W4-S  
1L15061-09 (Sea Water)

Sampled: 12/15/21 10:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved**

11

0.0038

0.010

ug/l

1

02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total**

13

0.0038

0.010

ug/l

1

02/14/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Sample Results

(Continued)

Sample: C-9-W4-S Sampled: 12/15/21 9:45 by Marisa Swiderski/Kate Buckley

1L15061-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **11** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **13** 0.0038 0.010 ug/l 1 02/14/22

## Sample Results

(Continued)

Sample: C-10-W4-S Sampled: 12/15/21 9:10 by Marisa Swiderski/Kate Buckley

1L15061-11 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **11** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **13** 0.0038 0.010 ug/l 1 02/15/22

## Sample Results

(Continued)

Sample: C-11-W4-S Sampled: 12/15/21 9:25 by Marisa Swiderski/Kate Buckley

1L15061-12 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **11** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **12** 0.0038 0.010 ug/l 1 02/15/22



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Sample Results

(Continued)

Sample: C-12-W4-S Sampled: 12/15/21 8:55 by Marisa Swiderski/Kate Buckley

1L15061-13 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **11** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **12** 0.0038 0.010 ug/l 1 02/15/22

## Sample Results

(Continued)

Sample: C-13-W4-S Sampled: 12/15/21 8:30 by Marisa Swiderski/Kate Buckley

1L15061-14 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **7.0** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **7.9** 0.0038 0.010 ug/l 1 02/15/22

## Sample Results

(Continued)

Sample: C-REF-1-W4-S Sampled: 12/15/21 8:40 by Marisa Swiderski/Kate Buckley

1L15061-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS07

**Batch ID:** W2B0287

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/03/22 16:47

**Analyst:** tbd

**Copper, Dissolved** ..... **0.71** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0979

**Preparation:** \_NONE (METALS)

**Prepared:** 02/14/22 13:18

**Analyst:** ALN

**Copper, Total** ..... **0.91** 0.0038 0.010 ug/l 1 02/15/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Sample Results

(Continued)

Sample: C-REF-2-W4-S  
1L15061-16 (Sea Water)

Sampled: 12/15/21 8:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640 **Instr:** ICPMS07  
**Batch ID:** W2B0287 **Preparation:** EPA 1640#Preconcentration **Prepared:** 02/03/22 16:47 **Analyst:** tbd  
**Copper, Dissolved** ..... **0.44** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640 **Instr:** ICPMS03  
**Batch ID:** W2B0979 **Preparation:** \_NONE (METALS) **Prepared:** 02/14/22 13:18 **Analyst:** ALN  
**Copper, Total** ..... **0.67** 0.0038 0.010 ug/l 1 02/15/22

## Sample Results

(Continued)

Sample: FB-W4-S  
1L15061-17 (Water)

Sampled: 12/15/21 7:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640 **Instr:** ICPMS07  
**Batch ID:** W2B0287 **Preparation:** EPA 1640#Preconcentration **Prepared:** 02/03/22 16:47 **Analyst:** tbd  
**Copper, Dissolved** ..... **0.035** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640 **Instr:** ICPMS03  
**Batch ID:** W2B0979 **Preparation:** \_NONE (METALS) **Prepared:** 02/14/22 13:18 **Analyst:** ALN  
**Copper, Total** ..... **ND** 0.0038 0.010 ug/l 1 02/15/22

## Sample Results

(Continued)

Sample: N3-ER-W4-S  
1L15061-18 (Water)

Sampled: 12/15/21 8:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640 **Instr:** ICPMS07  
**Batch ID:** W2B0287 **Preparation:** EPA 1640#Preconcentration **Prepared:** 02/03/22 16:47 **Analyst:** tbd  
**Copper, Dissolved** ..... **0.077** 0.0038 0.010 ug/l 1 02/04/22

**Method:** EPA 1640 **Instr:** ICPMS03  
**Batch ID:** W2B0979 **Preparation:** \_NONE (METALS) **Prepared:** 02/14/22 13:18 **Analyst:** ALN  
**Copper, Total** ..... **0.013** 0.0038 0.010 ug/l 1 02/15/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Sample Results

(Continued)

Sample: OF-1-W4-S  
1L15061-19 (Water)

Sampled: 12/14/21 13:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> SM 2540D							
<b>Batch ID:</b> W1L1379	<b>Preparation:</b> _NONE (WETCHEM)						
<b>Instr:</b> OVEN15							
<b>Prepared:</b> 12/20/21 15:00							<b>Analyst:</b> ttf
<b>Total Suspended Solids</b>	<b>170</b>		5	mg/l	1	12/20/21	

### Metals by EPA 200 Series Methods

<b>Method:</b> EPA 200.8							
<b>Batch ID:</b> W2B0790	<b>Preparation:</b> _NONE (METALS)						
<b>Instr:</b> ICPMS06							
<b>Prepared:</b> 02/18/22 14:25							<b>Analyst:</b> MPN
<b>Copper, Dissolved</b>	<b>17</b>	0.23	0.50	ug/l	1	02/22/22	
<b>Copper, Total</b>	<b>63</b>	0.23	0.50	ug/l	1	02/22/22	

## Sample Results

(Continued)

Sample: OF-2-W4-S  
1L15061-20 (Water)

Sampled: 12/14/21 13:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods</b>							
<b>Method:</b> SM 2540D							
<b>Batch ID:</b> W1L1379	<b>Preparation:</b> _NONE (WETCHEM)						
<b>Instr:</b> OVEN15							
<b>Prepared:</b> 12/20/21 15:00							<b>Analyst:</b> ttf
<b>Total Suspended Solids</b>	<b>33</b>		5	mg/l	1	12/20/21	

### Metals by EPA 200 Series Methods

<b>Method:</b> EPA 200.8							
<b>Batch ID:</b> W2B0790	<b>Preparation:</b> _NONE (METALS)						
<b>Instr:</b> ICPMS06							
<b>Prepared:</b> 02/18/22 14:25							<b>Analyst:</b> MPN
<b>Copper, Dissolved</b>	<b>23</b>	0.23	0.50	ug/l	1	02/22/22	
<b>Copper, Total</b>	<b>30</b>	0.23	0.50	ug/l	1	02/22/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Quality Control Results

Conventional Chemistry/Physical Parameters by APHA/EPA/ASTM Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W1L1379 - SM 2540D</b>											
<b>Blank (W1L1379-BLK1)</b>					<b>Prepared &amp; Analyzed: 12/20/21</b>						
Total Suspended Solids	ND		1	mg/l							
<b>LCS (W1L1379-BS1)</b>					<b>Prepared &amp; Analyzed: 12/20/21</b>						
Total Suspended Solids	64.9		1	mg/l	64.7		100	90-110			
<b>Duplicate (W1L1379-DUP1)</b>					<b>Prepared &amp; Analyzed: 12/20/21</b>						
Total Suspended Solids	168		1	mg/l		170			0.9	10	
<b>Duplicate (W1L1379-DUP2)</b>					<b>Prepared &amp; Analyzed: 12/20/21</b>						
Total Suspended Solids	74.8		1	mg/l		56.2			28	10	R-02

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2B0287 - EPA 1640</b>											
<b>Blank (W2B0287-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/03/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B0287-BS1)</b>					<b>Prepared: 02/03/22 Analyzed: 02/04/22</b>						
Copper, Dissolved	9.58	0.0038	0.010	ug/l	10.0		96	70-130			
<b>Matrix Spike (W2B0287-MS1)</b>					<b>Prepared: 02/03/22 Analyzed: 02/04/22</b>						
Copper, Dissolved	21.9	0.0038	0.010	ug/l	10.0	12.1	98	70-130			
<b>Matrix Spike (W2B0287-MS2)</b>					<b>Prepared: 02/03/22 Analyzed: 02/04/22</b>						
Copper, Dissolved	25.9	0.0038	0.010	ug/l	10.0	15.1	109	70-130			
<b>Matrix Spike Dup (W2B0287-MSD1)</b>					<b>Prepared: 02/03/22 Analyzed: 02/04/22</b>						
Copper, Dissolved	21.7	0.0038	0.010	ug/l	10.0	12.1	95	70-130	1	30	
<b>Matrix Spike Dup (W2B0287-MSD2)</b>					<b>Prepared: 02/03/22 Analyzed: 02/04/22</b>						
Copper, Dissolved	26.2	0.0038	0.010	ug/l	10.0	15.1	111	70-130	0.9	30	
<b>Batch: W2B0979 - EPA 1640</b>											
<b>Blank (W2B0979-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/14/22</b>						
Copper, Total	ND	0.0038	0.010	ug/l							
<b>LCS (W2B0979-BS1)</b>					<b>Prepared &amp; Analyzed: 02/14/22</b>						
Copper, Total	11.0	0.0038	0.010	ug/l	10.0		110	73-122			
<b>Matrix Spike (W2B0979-MS1)</b>					<b>Prepared &amp; Analyzed: 02/14/22</b>						
Copper, Total	24.4	0.0038	0.010	ug/l	10.0	14.0	104	60-138			
<b>Matrix Spike (W2B0979-MS2)</b>					<b>Prepared: 02/14/22 Analyzed: 02/15/22</b>						
Copper, Total	24.2	0.0038	0.010	ug/l	10.0	12.9	113	60-138			
<b>Matrix Spike Dup (W2B0979-MSD1)</b>					<b>Prepared &amp; Analyzed: 02/14/22</b>						
Copper, Total	23.8	0.0038	0.010	ug/l	10.0	14.0	98	60-138	3	30	
<b>Matrix Spike Dup (W2B0979-MSD2)</b>					<b>Prepared: 02/14/22 Analyzed: 02/15/22</b>						
Copper, Total	25.1	0.0038	0.010	ug/l	10.0	12.9	122	60-138	4	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Quality Control Results

(Continued)

### Metals by EPA 200 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limit	RPD	Limit	Qualifier
<b>Batch: W2B0790 - EPA 200.8</b>											
<b>Blank (W2B0790-BLK1)</b>						<b>Prepared: 02/18/22 Analyzed: 02/22/22</b>					
Copper, Dissolved	ND	0.23	0.50	ug/l							
Copper, Total	ND	0.23	0.50	ug/l							
<b>LCS (W2B0790-BS1)</b>						<b>Prepared: 02/18/22 Analyzed: 02/22/22</b>					
Copper, Dissolved	53.4	0.23	0.50	ug/l	50.0		107	85-115			
Copper, Total	53.4	0.23	0.50	ug/l	50.0		107	85-115			
<b>Matrix Spike (W2B0790-MS1)</b>						<b>Source: 1L15061-19 Prepared: 02/18/22 Analyzed: 02/22/22</b>					
Copper, Total	112	0.23	0.50	ug/l	50.0	63.4	97	70-130			
<b>Matrix Spike Dup (W2B0790-MSD1)</b>						<b>Source: 1L15061-19 Prepared: 02/18/22 Analyzed: 02/22/22</b>					
Copper, Total	116	0.23	0.50	ug/l	50.0	63.4	106	70-130	4	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot Study (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 13:14

## Notes and Definitions

Item	Definition
R-02	The RPD was outside of QC acceptance limits due to possible matrix interference.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.







Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

STANDARD

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Page 2 Of 2

CLIENT NAME:				PROJECT:		ANALYSES REQUESTED										SPECIAL HANDLING					
Wood Environment & Infrastructure Solutions, Inc.				SIYB IWHC Pause Pilot Study (Port of San Diego)												Same Day Rush 150%					
ADDRESS:				PHONE: 858-300-4324												24 Hour Rush 100%					
9177 Sky Park Ct.				FAX: 858-300-4301												48-72 Hour Rush 75%					
San Diego, CA 92123				EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a>												4 - 5 Day Rush 30%					
				EMAIL: <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>												Rush Extractions 50%					
PROJECT MANAGER				SAMPLER												10 Business Days					
Marisa Swiderski				Marisa Swiderski (MS) / Kate Buckley (KB)												QA/QC Data Package					
																Charges will apply for weekends/holidays					
																Method of Shipment:					
																COMMENTS					
ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Dissolved Copper <sup>1,2</sup> EPA 1640 (MDL 0.0038 µg/L, RL= 0.01 µg/L)	Total Copper <sup>1</sup> EPA 1640 (MDL 0.0038 µg/L, RL= 0.01 µg/L)	Dissolved Copper <sup>1,2</sup> EPA 200.8 (MDL 0.23 µg/L, RL= 0.50 µg/L)	Total Copper <sup>1</sup> EPA 200.8 (MDL 0.23 µg/L, RL= 0.50 µg/L)	Total Suspended Solids EPA 2540 D (MDL = 1 mg/L, RL = 5 mg/L)											
	12/15/21	9:25	seawater	C-11-W4-S	2	X	X														
	12/15/21	8:55	seawater	C-12-W4-S	2	X	X														
	12/15/21	8:30	seawater	C-13-W4-S	2	X	X														
	12/15/21	8:40	seawater	C-REF-1-W4-S	2	X	X														
	12/15/21	8:30	seawater	C-REF-2-W4-S	2	X	X														
	12/15/21	7:50	DI	FB-W4-S	2	X	X														
	12/15/21	8:05	DI	N3-ER-W4-S	2	X	X														
	12/14/21	13:20	storm water	OF-1-W4-S	3			X	X	X											
	12/14/21	13:55	storm water	OF-2-W4-S	3			X	X	X											

RELINQUISHED BY: <i>Marisa Swiderski</i>	DATE / TIME 12/15/2021 1340	RECEIVED BY <i>Magaly</i> 12/15-21 / 13:40	SAMPLE CONDITION: Actual Temperature: 43°C Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab.  70230	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Magaly</i>	DATE / TIME 12/15-21 / 16:30	RECEIVED BY <i>Samuel</i> 12/15/21 1630		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.

## **WEEK 5 ANALYTICAL RESULTS**

Work Orders: 1L21107

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/18/2022

Received Date: 12/21/2021

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 12/21/21 with the Chain-of-Custody document. The samples were received in good condition, at 3.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/18/2022 16:32

**Project Manager:** Marisa Swiderski

## Case Narrative

Final Report: This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W5	Marisa Swiderski/Kate Buckley	1L21107-01	Sea Water	12/20/21 11:30	
C-2-W5	Marisa Swiderski/Kate Buckley	1L21107-02	Sea Water	12/20/21 11:30	
C-3-W5	Marisa Swiderski/Kate Buckley	1L21107-03	Sea Water	12/20/21 10:50	
C-3-Dup-W5	Marisa Swiderski/Kate Buckley	1L21107-04	Sea Water	12/20/21 11:00	
C-4-W5	Marisa Swiderski/Kate Buckley	1L21107-05	Sea Water	12/20/21 10:10	
C-5-W5	Marisa Swiderski/Kate Buckley	1L21107-06	Sea Water	12/20/21 11:15	
C-6-W5	Marisa Swiderski/Kate Buckley	1L21107-07	Sea Water	12/20/21 11:00	
C-7-W5	Marisa Swiderski/Kate Buckley	1L21107-08	Sea Water	12/20/21 10:50	
C-8-W5	Marisa Swiderski/Kate Buckley	1L21107-09	Sea Water	12/20/21 10:40	
C-9-W5	Marisa Swiderski/Kate Buckley	1L21107-10	Sea Water	12/20/21 10:30	
C-10-W5	Marisa Swiderski/Kate Buckley	1L21107-11	Sea Water	12/20/21 10:10	
C-11-W5	Marisa Swiderski/Kate Buckley	1L21107-12	Sea Water	12/20/21 10:20	
C-12-W5	Marisa Swiderski/Kate Buckley	1L21107-13	Sea Water	12/20/21 09:55	
C-13-W5	Marisa Swiderski/Kate Buckley	1L21107-14	Sea Water	12/20/21 09:30	
C-REF-1-W5	Marisa Swiderski/Kate Buckley	1L21107-15	Sea Water	12/20/21 09:45	
C-REF-2-W5	Marisa Swiderski/Kate Buckley	1L21107-16	Sea Water	12/20/21 09:30	
FB-W5	Marisa Swiderski/Kate Buckley	1L21107-17	Water	12/20/21 08:55	
N8-ER-W5	Marisa Swiderski/Kate Buckley	1L21107-18	Water	12/20/21 09:05	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:32

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W5 Sampled: 12/20/21 11:30 by Marisa Swiderski/Kate Buckley

1L21107-01RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN		
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

Sample: C-2-W5 Sampled: 12/20/21 11:30 by Marisa Swiderski/Kate Buckley

1L21107-02RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN		
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

Sample: C-3-W5 Sampled: 12/20/21 10:50 by Marisa Swiderski/Kate Buckley

1L21107-03RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN		
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

Sample: C-3-Dup-W5 Sampled: 12/20/21 11:00 by Marisa Swiderski/Kate Buckley

1L21107-04RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN		
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

Sample: C-4-W5 Sampled: 12/20/21 10:10 by Marisa Swiderski/Kate Buckley

1L21107-05RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN		
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/16/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/18/2022 16:32

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-5-W5  
1L21107-06RE1 (Sea Water)

Sampled: 12/20/21 11:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123		<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN	
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

(Continued)

Sample: C-6-W5  
1L21107-07RE1 (Sea Water)

Sampled: 12/20/21 11:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123		<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN	
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

(Continued)

Sample: C-7-W5  
1L21107-08RE1 (Sea Water)

Sampled: 12/20/21 10:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123		<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN	
Copper, Dissolved	9.5	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

(Continued)

Sample: C-8-W5  
1L21107-09RE1 (Sea Water)

Sampled: 12/20/21 10:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123		<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN	
Copper, Dissolved	8.6	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

(Continued)

Sample: C-9-W5  
1L21107-10RE1 (Sea Water)

Sampled: 12/20/21 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123		<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN	
Copper, Dissolved	8.4	0.0038	0.010	ug/l	1	02/16/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:32

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-10-W5 Sampled: 12/20/21 10:10 by Marisa Swiderski/Kate Buckley

1L21107-11RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.1	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

(Continued)

Sample: C-11-W5 Sampled: 12/20/21 10:20 by Marisa Swiderski/Kate Buckley

1L21107-12RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.7	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

(Continued)

Sample: C-12-W5 Sampled: 12/20/21 9:55 by Marisa Swiderski/Kate Buckley

1L21107-13RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	5.0	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

(Continued)

Sample: C-13-W5 Sampled: 12/20/21 9:30 by Marisa Swiderski/Kate Buckley

1L21107-14RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	2.8	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

(Continued)

Sample: C-REF-1-W5 Sampled: 12/20/21 9:45 by Marisa Swiderski/Kate Buckley

1L21107-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1076	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	0.16	0.0038	0.010	ug/l	1	02/15/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:32

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-REF-2-W5 Sampled: 12/20/21 9:30 by Marisa Swiderski/Kate Buckley

1L21107-16RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1123

**Preparation:** \_NONE (METALS)

**Prepared:** 02/15/22 18:31

**Analyst:** ALN

Copper, Dissolved 0.50 0.0038 0.010 ug/l 1 02/16/22

## Sample Results

(Continued)

Sample: FB-W5 Sampled: 12/20/21 8:55 by Marisa Swiderski/Kate Buckley

1L21107-17 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1076

**Preparation:** \_NONE (METALS)

**Prepared:** 02/15/22 12:16

**Analyst:** ALN

Copper, Dissolved ND 0.0038 0.010 ug/l 1 02/15/22

## Sample Results

(Continued)

Sample: N8-ER-W5 Sampled: 12/20/21 9:05 by Marisa Swiderski/Kate Buckley

1L21107-18 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1076

**Preparation:** \_NONE (METALS)

**Prepared:** 02/15/22 12:16

**Analyst:** ALN

Copper, Dissolved ND 0.0038 0.010 ug/l 1 02/15/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/18/2022 16:32

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2B1076 - EPA 1640</b>											
<b>Blank (W2B1076-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/15/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1076-BS1)</b>					<b>Prepared &amp; Analyzed: 02/15/22</b>						
Copper, Dissolved	10.8	0.0038	0.010	ug/l	10.0		108	70-130			
<b>Matrix Spike (W2B1076-MS1)</b>					<b>Prepared &amp; Analyzed: 02/15/22</b>						
Copper, Dissolved	20.4	0.0038	0.010	ug/l	10.0	12.1	83	70-130			
<b>Matrix Spike Dup (W2B1076-MSD1)</b>					<b>Prepared &amp; Analyzed: 02/15/22</b>						
Copper, Dissolved	20.3	0.0038	0.010	ug/l	10.0	12.1	82	70-130	0.3	30	
<b>Batch: W2B1123 - EPA 1640</b>											
<b>Blank (W2B1123-BLK1)</b>					<b>Prepared: 02/15/22 Analyzed: 02/16/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1123-BS1)</b>					<b>Prepared: 02/15/22 Analyzed: 02/16/22</b>						
Copper, Dissolved	10.2	0.0038	0.010	ug/l	10.0		102	70-130			
<b>Matrix Spike (W2B1123-MS1)</b>					<b>Prepared: 02/15/22 Analyzed: 02/16/22</b>						
Copper, Dissolved	22.8	0.0038	0.010	ug/l	10.0	11.4	114	70-130			
<b>Matrix Spike (W2B1123-MS2)</b>					<b>Prepared: 02/15/22 Analyzed: 02/16/22</b>						
Copper, Dissolved	20.5	0.0038	0.010	ug/l	10.0	10.7	98	70-130			
<b>Matrix Spike Dup (W2B1123-MSD1)</b>					<b>Prepared: 02/15/22 Analyzed: 02/16/22</b>						
Copper, Dissolved	21.7	0.0038	0.010	ug/l	10.0	11.4	103	70-130	5	30	
<b>Matrix Spike Dup (W2B1123-MSD2)</b>					<b>Prepared: 02/15/22 Analyzed: 02/16/22</b>						
Copper, Dissolved	19.6	0.0038	0.010	ug/l	10.0	10.7	90	70-130	4	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/18/2022 16:32

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

**Weck Laboratories, Inc.**  
Analytical Laboratory Services - Since 1964



14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ [www.wecklabs.com](http://www.wecklabs.com)

## CHAIN OF CUSTODY RECORD

## STANDARD

1L21107

Page 2 Of 2

[illegible]

RELINQUISHED BY <i>Marina Swiercz</i>	DATE / TIME 12/21/2021 1200	RECEIVED BY <i>[Signature]</i>	<b>SAMPLE CONDITION:</b> Actual Temperature: <i>58°C</i> Received On Ice <input checked="" type="checkbox"/> Y / N Preserved <input checked="" type="checkbox"/> Y / N Evidence Seals Present <input checked="" type="checkbox"/> Y / N Container Intact <input checked="" type="checkbox"/> Y / N Preserved at Lab <input checked="" type="checkbox"/> Y / N  <i>Fort 4</i>	<b>SAMPLE TYPE CODE:</b> AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Juan Garcia</i>	DATE / TIME 12/21/2021 2:20	RECEIVED BY <i>[Signature]</i> 12/21/21		
RELINQUISHED BY	DATE / TIME	RECEIVED BY <i>[Signature]</i> 1/4/22		

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottletop filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.

## **WEEK 6 ANALYTICAL RESULTS**

Work Orders: 1L29032

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/18/2022

Received Date: 12/29/2021

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 12/29/21 with the Chain-of-Custody document. The samples were received in good condition, at 3.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:34

**Project Manager:** Marisa Swiderski

## Case Narrative

Final Report: This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W6	Marisa Swiderski/Kate Buckley	1L29032-01	Sea Water	12/28/21 11:40	
C-2-W6	Marisa Swiderski/Kate Buckley	1L29032-02	Sea Water	12/28/21 12:30	
C-3-W6	Marisa Swiderski/Kate Buckley	1L29032-03	Sea Water	12/28/21 11:45	
C-4-W6	Marisa Swiderski/Kate Buckley	1L29032-04	Sea Water	12/28/21 10:50	
C-5-W6	Marisa Swiderski/Kate Buckley	1L29032-05	Sea Water	12/28/21 11:20	
C-6-W6	Marisa Swiderski/Kate Buckley	1L29032-06	Sea Water	12/28/21 09:45	
C-7-W6	Marisa Swiderski/Kate Buckley	1L29032-07	Sea Water	12/28/21 10:45	
C-8-W6	Marisa Swiderski/Kate Buckley	1L29032-08	Sea Water	12/28/21 10:30	
C-9-W6	Marisa Swiderski/Kate Buckley	1L29032-09	Sea Water	12/28/21 10:15	
C-10-W6	Marisa Swiderski/Kate Buckley	1L29032-10	Sea Water	12/28/21 09:55	
C-11-W6	Marisa Swiderski/Kate Buckley	1L29032-11	Sea Water	12/28/21 10:05	
C-12-W6	Marisa Swiderski/Kate Buckley	1L29032-12	Sea Water	12/28/21 09:20	
C-13-W6	Marisa Swiderski/Kate Buckley	1L29032-13	Sea Water	12/28/21 09:00	
C-REF-1-W6	Marisa Swiderski/Kate Buckley	1L29032-14	Sea Water	12/28/21 08:55	
C-REF-2-W6	Marisa Swiderski/Kate Buckley	1L29032-15	Sea Water	12/28/21 08:45	
FB-W6	Marisa Swiderski/Kate Buckley	1L29032-16	Water	12/28/21 08:30	
N3-ER-W6	Marisa Swiderski/Kate Buckley	1L29032-17	Water	12/28/21 08:40	
E-14-W6	Marisa Swiderski/Kate Buckley	1L29032-18	Sea Water	12/28/21 12:10	
E-15-W6	Marisa Swiderski/Kate Buckley	1L29032-19	Sea Water	12/28/21 11:25	
E-16-W6	Marisa Swiderski/Kate Buckley	1L29032-20	Sea Water	12/28/21 10:20	
E-16-Dup-W6	Marisa Swiderski/Kate Buckley	1L29032-21	Sea Water	12/28/21 10:30	
E-17-W6	Marisa Swiderski/Kate Buckley	1L29032-22	Sea Water	12/28/21 11:00	
E-18-W6	Marisa Swiderski/Kate Buckley	1L29032-23	Sea Water	12/28/21 09:30	
E-19-W6	Marisa Swiderski/Kate Buckley	1L29032-24	Sea Water	12/28/21 09:45	
E-20-W6	Marisa Swiderski/Kate Buckley	1L29032-25	Sea Water	12/28/21 09:10	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:34

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W6 Sampled: 12/28/21 11:40 by Marisa Swiderski/Kate Buckley

1L29032-01RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN			
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

Sample: C-2-W6 Sampled: 12/28/21 12:30 by Marisa Swiderski/Kate Buckley

1L29032-02RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1123	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/15/22 18:31		<b>Analyst:</b> ALN			
Copper, Dissolved	13	0.0038	0.010	ug/l	1	02/16/22	

## Sample Results

Sample: C-3-W6 Sampled: 12/28/21 11:45 by Marisa Swiderski/Kate Buckley

1L29032-03 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/08/22 11:33		<b>Analyst:</b> ALN			
Copper, Dissolved	15	0.0038	0.010	ug/l	1	02/12/22	

## Sample Results

Sample: C-4-W6 Sampled: 12/28/21 10:50 by Marisa Swiderski/Kate Buckley

1L29032-04 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/08/22 11:33		<b>Analyst:</b> ALN			
Copper, Dissolved	14	0.0038	0.010	ug/l	1	02/12/22	

## Sample Results

Sample: C-5-W6 Sampled: 12/28/21 11:20 by Marisa Swiderski/Kate Buckley

1L29032-05 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/08/22 11:33		<b>Analyst:</b> ALN			
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/12/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:34

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-6-W6 Sampled: 12/28/21 9:45 by Marisa Swiderski/Kate Buckley

1L29032-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0553

**Preparation:** \_NONE (METALS)

**Prepared:** 02/08/22 11:33

**Analyst:** ALN

**Copper, Dissolved** ..... 11 0.0038 0.010 ug/l 1 02/12/22

## Sample Results

(Continued)

Sample: C-7-W6 Sampled: 12/28/21 10:45 by Marisa Swiderski/Kate Buckley

1L29032-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0553

**Preparation:** \_NONE (METALS)

**Prepared:** 02/08/22 11:33

**Analyst:** ALN

**Copper, Dissolved** ..... 9.7 0.0038 0.010 ug/l 1 02/12/22

## Sample Results

(Continued)

Sample: C-8-W6 Sampled: 12/28/21 10:30 by Marisa Swiderski/Kate Buckley

1L29032-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0553

**Preparation:** \_NONE (METALS)

**Prepared:** 02/08/22 11:33

**Analyst:** ALN

**Copper, Dissolved** ..... 9.0 0.0038 0.010 ug/l 1 02/12/22

## Sample Results

(Continued)

Sample: C-9-W6 Sampled: 12/28/21 10:15 by Marisa Swiderski/Kate Buckley

1L29032-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0553

**Preparation:** \_NONE (METALS)

**Prepared:** 02/08/22 11:33

**Analyst:** ALN

**Copper, Dissolved** ..... 8.0 0.0038 0.010 ug/l 1 02/12/22

## Sample Results

(Continued)

Sample: C-10-W6 Sampled: 12/28/21 9:55 by Marisa Swiderski/Kate Buckley

1L29032-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0553

**Preparation:** \_NONE (METALS)

**Prepared:** 02/08/22 11:33

**Analyst:** ALN

**Copper, Dissolved** ..... 8.9 0.0038 0.010 ug/l 1 02/12/22



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:34

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-11-W6 Sampled: 12/28/21 10:05 by Marisa Swiderski/Kate Buckley

1L29032-11 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.1	0.0038	0.010	ug/l	1	02/12/22	

## Sample Results

(Continued)

Sample: C-12-W6 Sampled: 12/28/21 9:20 by Marisa Swiderski/Kate Buckley

1L29032-12 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	02/12/22	

## Sample Results

(Continued)

Sample: C-13-W6 Sampled: 12/28/21 9:00 by Marisa Swiderski/Kate Buckley

1L29032-13 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.3	0.0038	0.010	ug/l	1	02/12/22	

## Sample Results

(Continued)

Sample: C-REF-1-W6 Sampled: 12/28/21 8:55 by Marisa Swiderski/Kate Buckley

1L29032-14 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.6	0.0038	0.010	ug/l	1	02/12/22	

## Sample Results

(Continued)

Sample: C-REF-2-W6 Sampled: 12/28/21 8:45 by Marisa Swiderski/Kate Buckley

1L29032-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	2.0	0.0038	0.010	ug/l	1	02/12/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:34

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: FB-W6 Sampled: 12/28/21 8:30 by Marisa Swiderski/Kate Buckley

1L29032-16 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1076

**Preparation:** \_NONE (METALS)

**Prepared:** 02/15/22 12:16

**Analyst:** ALN

Copper, Dissolved ND 0.0038 0.010 ug/l 1 02/15/22

## Sample Results

(Continued)

Sample: N3-ER-W6 Sampled: 12/28/21 8:40 by Marisa Swiderski/Kate Buckley

1L29032-17 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1076

**Preparation:** \_NONE (METALS)

**Prepared:** 02/15/22 12:16

**Analyst:** ALN

Copper, Dissolved 0.018 0.0038 0.010 ug/l 1 02/15/22

## Sample Results

(Continued)

Sample: E-14-W6 Sampled: 12/28/21 12:10 by Marisa Swiderski/Kate Buckley

1L29032-18 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0553

**Preparation:** \_NONE (METALS)

**Prepared:** 02/08/22 11:33

**Analyst:** ALN

Copper, Dissolved 14 0.0038 0.010 ug/l 1 02/12/22

## Sample Results

(Continued)

Sample: E-15-W6 Sampled: 12/28/21 11:25 by Marisa Swiderski/Kate Buckley

1L29032-19 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0553

**Preparation:** \_NONE (METALS)

**Prepared:** 02/08/22 11:33

**Analyst:** ALN

Copper, Dissolved 14 0.0038 0.010 ug/l 1 02/12/22

## Sample Results

(Continued)

Sample: E-16-W6 Sampled: 12/28/21 10:20 by Marisa Swiderski/Kate Buckley

1L29032-20 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B0553

**Preparation:** \_NONE (METALS)

**Prepared:** 02/08/22 11:33

**Analyst:** ALN

Copper, Dissolved 14 0.0038 0.010 ug/l 1 02/12/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/18/2022 16:34

## Sample Results

(Continued)

Sample: E-16-Dup-W6  
1L29032-21 (Sea Water)

Sampled: 12/28/21 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	15	0.0038	0.010	ug/l	1	02/12/22	

## Sample Results

(Continued)

Sample: E-17-W6  
1L29032-22 (Sea Water)

Sampled: 12/28/21 11:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B0553	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	02/12/22	

## Sample Results

(Continued)

Sample: E-18-W6  
1L29032-23 (Sea Water)

Sampled: 12/28/21 9:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1076	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	12	0.0038	0.010	ug/l	1	02/15/22	

## Sample Results

(Continued)

Sample: E-19-W6  
1L29032-24 (Sea Water)

Sampled: 12/28/21 9:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1076	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.1	0.0038	0.010	ug/l	1	02/15/22	

## Sample Results

(Continued)

Sample: E-20-W6  
1L29032-25 (Sea Water)

Sampled: 12/28/21 9:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1076	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/15/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:34

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2B0553 - EPA 1640</b>											
<b>Blank (W2B0553-BLK1)</b>	<b>Prepared: 02/08/22 Analyzed: 02/12/22</b>										
Copper, Dissolved	0.0261	0.0038	0.010	ug/l							B-06
<b>LCS (W2B0553-BS1)</b>	<b>Prepared: 02/08/22 Analyzed: 02/12/22</b>										
Copper, Dissolved	11.0	0.0038	0.010	ug/l	10.0		110	70-130			
<b>Matrix Spike (W2B0553-MS1)</b>	<b>Source: 1L29032-12 Prepared: 02/08/22 Analyzed: 02/12/22</b>										
Copper, Dissolved	21.0	0.0038	0.010	ug/l	10.0	10.6	104	70-130			
<b>Matrix Spike (W2B0553-MS2)</b>	<b>Source: 1L29032-20 Prepared: 02/08/22 Analyzed: 02/12/22</b>										
Copper, Dissolved	27.5	0.0038	0.010	ug/l	10.0	14.4	131	70-130			MS-02
<b>Matrix Spike Dup (W2B0553-MSD1)</b>	<b>Source: 1L29032-12 Prepared: 02/08/22 Analyzed: 02/12/22</b>										
Copper, Dissolved	21.7	0.0038	0.010	ug/l	10.0	10.6	111	70-130	3	30	
<b>Matrix Spike Dup (W2B0553-MSD2)</b>	<b>Source: 1L29032-20 Prepared: 02/08/22 Analyzed: 02/12/22</b>										
Copper, Dissolved	25.3	0.0038	0.010	ug/l	10.0	14.4	109	70-130	8	30	
<b>Batch: W2B1076 - EPA 1640</b>											
<b>Blank (W2B1076-BLK1)</b>	<b>Prepared &amp; Analyzed: 02/15/22</b>										
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1076-BS1)</b>	<b>Prepared &amp; Analyzed: 02/15/22</b>										
Copper, Dissolved	10.8	0.0038	0.010	ug/l	10.0		108	70-130			
<b>Matrix Spike (W2B1076-MS1)</b>	<b>Source: 1L29032-23 Prepared &amp; Analyzed: 02/15/22</b>										
Copper, Dissolved	20.4	0.0038	0.010	ug/l	10.0	12.1	83	70-130			
<b>Matrix Spike Dup (W2B1076-MSD1)</b>	<b>Source: 1L29032-23 Prepared &amp; Analyzed: 02/15/22</b>										
Copper, Dissolved	20.3	0.0038	0.010	ug/l	10.0	12.1	82	70-130	0.3	30	
<b>Batch: W2B1123 - EPA 1640</b>											
<b>Blank (W2B1123-BLK1)</b>	<b>Prepared: 02/15/22 Analyzed: 02/16/22</b>										
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1123-BS1)</b>	<b>Prepared: 02/15/22 Analyzed: 02/16/22</b>										
Copper, Dissolved	10.2	0.0038	0.010	ug/l	10.0		102	70-130			
<b>Matrix Spike (W2B1123-MS1)</b>	<b>Source: 1L29032-01RE1 Prepared: 02/15/22 Analyzed: 02/16/22</b>										
Copper, Dissolved	22.8	0.0038	0.010	ug/l	10.0	11.4	114	70-130			
<b>Matrix Spike (W2B1123-MS2)</b>	<b>Source: 1L21107-03RE1 Prepared: 02/15/22 Analyzed: 02/16/22</b>										
Copper, Dissolved	20.5	0.0038	0.010	ug/l	10.0	10.7	98	70-130			
<b>Matrix Spike Dup (W2B1123-MSD1)</b>	<b>Source: 1L29032-01RE1 Prepared: 02/15/22 Analyzed: 02/16/22</b>										
Copper, Dissolved	21.7	0.0038	0.010	ug/l	10.0	11.4	103	70-130	5	30	
<b>Matrix Spike Dup (W2B1123-MSD2)</b>	<b>Source: 1L21107-03RE1 Prepared: 02/15/22 Analyzed: 02/16/22</b>										
Copper, Dissolved	19.6	0.0038	0.010	ug/l	10.0	10.7	90	70-130	4	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/18/2022 16:34

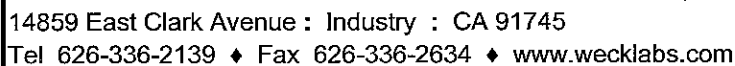
## Notes and Definitions

Item	Definition
B-06	This analyte was found in the method blank, which was possibly contaminated during sample preparation. The batch was accepted since this analyte was either not detected or more than 10 times of the blank value for all the samples in the batch.
MS-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



**Weck Laboratories, Inc.**  
Analytical Laboratory Services - Since 1964

## STANDARD

1L29032

Page 1 Of 3

[illegible]

RELINQUISHED BY <i>Marin Davidson</i>	DATE / TIME 12/29/2021 0905	RECEIVED BY <i>Heath Sander</i>	<b>SAMPLE CONDITION:</b> Actual Temperature: 3.9C Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab  70230 12/29/21	<b>SAMPLE TYPE CODE:</b> AQ=Aqueous NA= Non Aqueous SL= Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Heath Sander</i>	DATE / TIME 1100 12-29-21	RECEIVED BY <i>Janahm</i> 12/29/21 1100		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottletop filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.





Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

STANDARD

1L29032

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Page 2 Of 3

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.				PROJECT: SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED										SPECIAL HANDLING		
ADDRESS: 9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: marisa.swiderski@woodplc.com barry.snyder@woodplc.com		Dissolved Copper <sup>2+</sup> Method EPA 1640 MDL 0.0038 µg/L RL = 0.01										<input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package		
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Kate Buckley (KB)												Charges will apply for weekends/holidays		
ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.											Method of Shipment:	
	12/28/21	9:20	seawater	C-12-W6		1	X										COMMENTS extra vol. analyze sample MS/MSD	
	12/28/21	9:00	seawater	C-13-W6		1	X											
	12/28/21	8:55	seawater	C-REF-1-W6		1	X											
	12/28/21	8:45	seawater	C-REF-2-W6		1	X											
	12/28/21	8:30	DI	FB-W6		1	X											
	12/28/21	8:40	DI	N3-ER-W6		1	X											
	12/28/21	12:10	seawater	E-14-W6		1	X											
	12/28/21	11:25	seawater	E-15-W6		1	X											
	12/28/21	10:20	seawater	E-16-W6		1	X											
	12/28/21	10:30	seawater	E-16-Dup-W6		1	X											
	12/28/21	11:00	seawater	E-17-W6		1	X											

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 12/29/2021 0905	RECEIVED BY <i>Weck Sam H</i>	SAMPLE CONDITION: Actual Temperature: 3.4°C Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab T0C30	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Weck Sam H</i>	DATE / TIME 12-29-21 1100	RECEIVED BY <i>Janet</i> 12/29/21 1100		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.



## **WEEK 7 ANALYTICAL RESULTS**

Work Orders: 2A05055

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/17/2022

Received Date: 1/5/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 1/05/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/17/2022 17:17

**Project Manager:** Marisa Swiderski

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W7	Marisa Swiderski/Kate Buckley	2A05055-01	Sea Water	01/04/22 11:00	
C-2-W7	Marisa Swiderski/Kate Buckley	2A05055-02	Sea Water	01/04/22 10:30	
C-2-Dup-W7	Marisa Swiderski/Kate Buckley	2A05055-03	Sea Water	01/04/22 10:40	
C-3-W7	Marisa Swiderski/Kate Buckley	2A05055-04	Sea Water	01/04/22 10:05	
C-4-W7	Marisa Swiderski/Kate Buckley	2A05055-05	Sea Water	01/04/22 09:30	
C-5-W7	Marisa Swiderski/Kate Buckley	2A05055-06	Sea Water	01/04/22 10:35	
C-6-W7	Marisa Swiderski/Kate Buckley	2A05055-07	Sea Water	01/04/22 10:20	
C-7-W7	Marisa Swiderski/Kate Buckley	2A05055-08	Sea Water	01/04/22 10:10	
C-8-W7	Marisa Swiderski/Kate Buckley	2A05055-09	Sea Water	01/04/22 10:00	
C-9-W7	Marisa Swiderski/Kate Buckley	2A05055-10	Sea Water	01/04/22 09:50	
C-10-W7	Marisa Swiderski/Kate Buckley	2A05055-11	Sea Water	01/04/22 09:25	
C-11-W7	Marisa Swiderski/Kate Buckley	2A05055-12	Sea Water	01/04/22 09:35	
C-12-W7	Marisa Swiderski/Kate Buckley	2A05055-13	Sea Water	01/04/22 09:10	
C-13-W7	Marisa Swiderski/Kate Buckley	2A05055-14	Sea Water	01/04/22 09:00	
C-REF-1-W7	Marisa Swiderski/Kate Buckley	2A05055-15	Sea Water	01/04/22 08:55	
C-REF-2-W7	Marisa Swiderski/Kate Buckley	2A05055-16	Sea Water	01/04/22 08:40	
FB-W7	Marisa Swiderski/Kate Buckley	2A05055-17	Water	01/04/22 08:30	
N8-ER-W7	Marisa Swiderski/Kate Buckley	2A05055-18	Water	01/04/22 08:40	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/17/2022 17:17

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W7  
2A05055-01 (Sea Water)

Sampled: 01/04/22 11:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	8.3	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-2-W7  
2A05055-02 (Sea Water)

Sampled: 01/04/22 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	8.9	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-2-Dup-W7  
2A05055-03 (Sea Water)

Sampled: 01/04/22 10:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	8.4	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-3-W7  
2A05055-04 (Sea Water)

Sampled: 01/04/22 10:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	8.7	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-4-W7  
2A05055-05 (Sea Water)

Sampled: 01/04/22 9:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	8.7	0.0038	0.010	ug/l	1	02/17/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/17/2022 17:17

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-5-W7 Sampled: 01/04/22 10:35 by Marisa Swiderski/Kate Buckley

2A05055-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	7.7	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-6-W7 Sampled: 01/04/22 10:20 by Marisa Swiderski/Kate Buckley

2A05055-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	7.2	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-7-W7 Sampled: 01/04/22 10:10 by Marisa Swiderski/Kate Buckley

2A05055-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	6.5	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-8-W7 Sampled: 01/04/22 10:00 by Marisa Swiderski/Kate Buckley

2A05055-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	5.7	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-9-W7 Sampled: 01/04/22 9:50 by Marisa Swiderski/Kate Buckley

2A05055-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	6.6	0.0038	0.010	ug/l	1	02/17/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/17/2022 17:17

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-10-W7 Sampled: 01/04/22 9:25 by Marisa Swiderski/Kate Buckley

2A05055-11 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	6.4	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-11-W7 Sampled: 01/04/22 9:35 by Marisa Swiderski/Kate Buckley

2A05055-12 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	6.4	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-12-W7 Sampled: 01/04/22 9:10 by Marisa Swiderski/Kate Buckley

2A05055-13 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	3.8	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-13-W7 Sampled: 01/04/22 9:00 by Marisa Swiderski/Kate Buckley

2A05055-14 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	2.3	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-REF-1-W7 Sampled: 01/04/22 8:55 by Marisa Swiderski/Kate Buckley

2A05055-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN		
Copper, Dissolved	0.35	0.0038	0.010	ug/l	1	02/17/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/17/2022 17:17

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-REF-2-W7 Sampled: 01/04/22 8:40 by Marisa Swiderski/Kate Buckley

2A05055-16 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1228

**Preparation:** \_NONE (METALS)

**Prepared:** 02/16/22 17:01

**Analyst:** ALN

Copper, Dissolved 0.32 0.0038 0.010 ug/l 1 02/17/22

## Sample Results

(Continued)

Sample: FB-W7 Sampled: 01/04/22 8:30 by Marisa Swiderski/Kate Buckley

2A05055-17 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1228

**Preparation:** \_NONE (METALS)

**Prepared:** 02/16/22 17:01

**Analyst:** ALN

Copper, Dissolved ND 0.0038 0.010 ug/l 1 02/17/22

## Sample Results

(Continued)

Sample: N8-ER-W7 Sampled: 01/04/22 8:40 by Marisa Swiderski/Kate Buckley

2A05055-18 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1228

**Preparation:** \_NONE (METALS)

**Prepared:** 02/16/22 17:01

**Analyst:** ALN

Copper, Dissolved ND 0.0038 0.010 ug/l 1 02/17/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/17/2022 17:17

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2B1228 - EPA 1640</b>											
<b>Blank (W2B1228-BLK1)</b>					<b>Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1228-BS1)</b>					<b>Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	10.6	0.0038	0.010	ug/l	10.0		106	70-130			
<b>Matrix Spike (W2B1228-MS1)</b>					<b>Source: 2A05055-02 Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	19.4	0.0038	0.010	ug/l	10.0	8.89	105	70-130			
<b>Matrix Spike (W2B1228-MS2)</b>					<b>Source: 2A05055-16 Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	10.5	0.0038	0.010	ug/l	10.0	0.319	102	70-130			
<b>Matrix Spike Dup (W2B1228-MSD1)</b>					<b>Source: 2A05055-02 Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	18.0	0.0038	0.010	ug/l	10.0	8.89	91	70-130	8	30	
<b>Matrix Spike Dup (W2B1228-MSD2)</b>					<b>Source: 2A05055-16 Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	10.9	0.0038	0.010	ug/l	10.0	0.319	106	70-130	4	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/17/2022 17:17

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

# CHAIN OF CUSTODY RECORD

STANDARD

2A05055

Page 1 Of 2

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.				PROJECT: SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED										SPECIAL HANDLING		
ADDRESS: 9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a> <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>												<input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package		
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Rolf Schottle (RS)												Charges will apply for weekends/holidays		Method of Shipment:
ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.	Dissolved Copper <sup>1,2</sup> EPA 1640 MDL 0.0038 µg/L, RL= 0.01 µg/L											COMMENTS
	01/04/22	11:00	seawater	C-1-W7		1	X											
	01/04/22	10:30	seawater	C-2-W7		1	X											extra vol. analyze sample MS/MSD
	01/04/22	10:40	seawater	C-2-Dup-W7		1	X											
	01/04/22	10:05	seawater	C-3-W7		1	X											
	01/04/22	9:30	seawater	C-4-W7		1	X											
	01/04/22	10:35	seawater	C-5-W7		1	X											
	01/04/22	10:20	seawater	C-6-W7		1	X											
	01/04/22	10:10	seawater	C-7-W7		1	X											
	01/04/22	10:00	seawater	C-8-W7		1	X											
	01/04/22	9:50	seawater	C-9-W7		1	X											
	01/04/22	9:25	seawater	C-10-W7		1	X											
RELINQUISHED BY <i>Marisa Swiderski</i>				DATE / TIME 1/5/2022 0900		RECEIVED BY <i>Magaly</i> 1-5-22/9:00				SAMPLE CONDITION: Actual Temperature: <i>2.80°C</i> <i>T-0134</i>				SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix				
RELINQUISHED BY <i>M</i>				DATE / TIME		RECEIVED BY				Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab				<i>Y / N</i> <i>Y / N</i> <i>Y / N</i> <i>Y / N</i> <i>Y / N</i>				
RELINQUISHED BY <i>Magaly</i>				DATE / TIME 1-5-22/11:30		RECEIVED BY <i>MR</i> 1/5/22/11:45												
SPECIAL REQUIREMENTS / BILLING INFORMATION										Please submit invoices to <a href="mailto:APIInvoice.US@woodplc.com">APIInvoice.US@woodplc.com</a> and include the following information :								
1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.										1) Project #: 2015100113.0002A.WECK								
2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.										2) PO #: N/A								
3) Preserve any extra volume of each sample for dissolved metals to archive.										3) Org: 3151								
4) SPIKE level at the following amounts: Copper = 10 ug/L										4) GL: 573000								
5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.																		



(4) GL: 573000

## **WEEK 8 ANALYTICAL RESULTS**

Work Orders: 2A12057

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/18/2022

Received Date: 1/12/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 1/12/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.6 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/18/2022 16:18

**Project Manager:** Marisa Swiderski

## Case Narrative

Final Report: This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W8	Marisa Swiderski/Kate Buckley	2A12057-01	Sea Water	01/11/22 11:35	
C-2-W8	Marisa Swiderski/Kate Buckley	2A12057-02	Sea Water	01/11/22 12:05	
C-3-W8	Marisa Swiderski/Kate Buckley	2A12057-03	Sea Water	01/11/22 11:25	
C-4-W8	Marisa Swiderski/Kate Buckley	2A12057-04	Sea Water	01/11/22 10:40	
C-5-W8	Marisa Swiderski/Kate Buckley	2A12057-05	Sea Water	01/11/22 11:25	
C-6-W8	Marisa Swiderski/Kate Buckley	2A12057-06	Sea Water	01/11/22 09:55	
C-7-W8	Marisa Swiderski/Kate Buckley	2A12057-07	Sea Water	01/11/22 11:00	
C-8-W8	Marisa Swiderski/Kate Buckley	2A12057-08	Sea Water	01/11/22 10:50	
C-9-W8	Marisa Swiderski/Kate Buckley	2A12057-09	Sea Water	01/11/22 10:40	
C-10-W8	Marisa Swiderski/Kate Buckley	2A12057-10	Sea Water	01/11/22 10:05	
C-10-Dup-W8	Marisa Swiderski/Kate Buckley	2A12057-11	Sea Water	01/11/22 10:20	
C-11-W8	Marisa Swiderski/Kate Buckley	2A12057-12	Sea Water	01/11/22 10:30	
C-12-W8	Marisa Swiderski/Kate Buckley	2A12057-13	Sea Water	01/11/22 09:40	
C-13-W8	Marisa Swiderski/Kate Buckley	2A12057-14	Sea Water	01/11/22 09:05	
C-REF-1-W8	Marisa Swiderski/Kate Buckley	2A12057-15	Sea Water	01/11/22 09:05	
C-REF-2-W8	Marisa Swiderski/Kate Buckley	2A12057-16	Sea Water	01/11/22 08:50	
FB-W8	Marisa Swiderski/Kate Buckley	2A12057-17	Water	01/11/22 08:45	
N3-ER-W8	Marisa Swiderski/Kate Buckley	2A12057-18	Water	01/11/22 08:50	
E-14-W8	Marisa Swiderski/Kate Buckley	2A12057-19	Sea Water	01/11/22 11:50	
E-15-W8	Marisa Swiderski/Kate Buckley	2A12057-20	Sea Water	01/11/22 11:05	
E-16-W8	Marisa Swiderski/Kate Buckley	2A12057-21	Sea Water	01/11/22 10:25	
E-17-W8	Marisa Swiderski/Kate Buckley	2A12057-22	Sea Water	01/11/22 11:10	
E-18-W8	Marisa Swiderski/Kate Buckley	2A12057-23	Sea Water	01/11/22 09:35	
E-19-W8	Marisa Swiderski/Kate Buckley	2A12057-24	Sea Water	01/11/22 09:55	
E-20-W8	Marisa Swiderski/Kate Buckley	2A12057-25	Sea Water	01/11/22 09:20	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:18

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W8  
2A12057-01 (Sea Water)

Sampled: 01/11/22 11:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN			
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-2-W8  
2A12057-02 (Sea Water)

Sampled: 01/11/22 12:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1228	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/16/22 17:01		<b>Analyst:</b> ALN			
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-3-W8  
2A12057-03 (Sea Water)

Sampled: 01/11/22 11:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration	<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN			
Copper, Dissolved	10	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-4-W8  
2A12057-04 (Sea Water)

Sampled: 01/11/22 10:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration	<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN			
Copper, Dissolved	9.3	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-5-W8  
2A12057-05 (Sea Water)

Sampled: 01/11/22 11:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration	<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN			
Copper, Dissolved	9.0	0.0038	0.010	ug/l	1	02/17/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:18

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-6-W8 Sampled: 01/11/22 9:55 by Marisa Swiderski/Kate Buckley

2A12057-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	8.6	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-7-W8 Sampled: 01/11/22 11:00 by Marisa Swiderski/Kate Buckley

2A12057-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	7.7	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-8-W8 Sampled: 01/11/22 10:50 by Marisa Swiderski/Kate Buckley

2A12057-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	8.4	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-9-W8 Sampled: 01/11/22 10:40 by Marisa Swiderski/Kate Buckley

2A12057-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	9.4	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-10-W8 Sampled: 01/11/22 10:05 by Marisa Swiderski/Kate Buckley

2A12057-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	8.3	0.0038	0.010	ug/l	1	02/17/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/18/2022 16:18

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-10-Dup-W8  
2A12057-11 (Sea Water)

Sampled: 01/11/22 10:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.2	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-11-W8  
2A12057-12 (Sea Water)

Sampled: 01/11/22 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.6	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-12-W8  
2A12057-13 (Sea Water)

Sampled: 01/11/22 9:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.2	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-13-W8  
2A12057-14 (Sea Water)

Sampled: 01/11/22 9:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	3.1	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: C-REF-1-W8  
2A12057-15 (Sea Water)

Sampled: 01/11/22 9:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.3	0.0038	0.010	ug/l	1	02/17/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:18

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-REF-2-W8  
2A12057-16 (Sea Water)

Sampled: 01/11/22 8:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.5	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: FB-W8  
2A12057-17 (Water)

Sampled: 01/11/22 8:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	ND	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: N3-ER-W8  
2A12057-18 (Water)

Sampled: 01/11/22 8:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	0.0048	0.0038	0.010	ug/l	1	02/17/22	J

## Sample Results

(Continued)

Sample: E-14-W8  
2A12057-19 (Sea Water)

Sampled: 01/11/22 11:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.8	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: E-15-W8  
2A12057-20 (Sea Water)

Sampled: 01/11/22 11:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/17/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:18

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: E-16-W8 Sampled: 01/11/22 10:25 by Marisa Swiderski/Kate Buckley

2A12057-21 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN		
Copper, Dissolved	8.9	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: E-17-W8 Sampled: 01/11/22 11:10 by Marisa Swiderski/Kate Buckley

2A12057-22 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1291	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:38		<b>Analyst:</b> ALN		
Copper, Dissolved	9.0	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: E-18-W8 Sampled: 01/11/22 9:35 by Marisa Swiderski/Kate Buckley

2A12057-23 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:40		<b>Analyst:</b> ALN		
Copper, Dissolved	9.0	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: E-19-W8 Sampled: 01/11/22 9:55 by Marisa Swiderski/Kate Buckley

2A12057-24 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:40		<b>Analyst:</b> ALN		
Copper, Dissolved	8.0	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

(Continued)

Sample: E-20-W8 Sampled: 01/11/22 9:20 by Marisa Swiderski/Kate Buckley

2A12057-25 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:40		<b>Analyst:</b> ALN		
Copper, Dissolved	5.4	0.0038	0.010	ug/l	1	02/17/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/18/2022 16:18

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2B1228 - EPA 1640</b>											
<b>Blank (W2B1228-BLK1)</b>					<b>Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1228-BS1)</b>					<b>Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	10.6	0.0038	0.010	ug/l	10.0		106	70-130			
<b>Matrix Spike (W2B1228-MS1)</b>					<b>Source: 2A05055-02 Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	19.4	0.0038	0.010	ug/l	10.0	8.89	105	70-130			
<b>Matrix Spike (W2B1228-MS2)</b>					<b>Source: 2A05055-16 Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	10.5	0.0038	0.010	ug/l	10.0	0.319	102	70-130			
<b>Matrix Spike Dup (W2B1228-MSD1)</b>					<b>Source: 2A05055-02 Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	18.0	0.0038	0.010	ug/l	10.0	8.89	91	70-130	8	30	
<b>Matrix Spike Dup (W2B1228-MSD2)</b>					<b>Source: 2A05055-16 Prepared: 02/16/22 Analyzed: 02/17/22</b>						
Copper, Dissolved	10.9	0.0038	0.010	ug/l	10.0	0.319	106	70-130	4	30	
<b>Batch: W2B1291 - EPA 1640</b>											
<b>Blank (W2B1291-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1291-BS1)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	9.16	0.0038	0.010	ug/l	10.0		92	70-130			
<b>Matrix Spike (W2B1291-MS1)</b>					<b>Source: 2A12057-03 Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	19.5	0.0038	0.010	ug/l	10.0	10.1	93	70-130			
<b>Matrix Spike (W2B1291-MS2)</b>					<b>Source: 2A12057-10 Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	17.8	0.0038	0.010	ug/l	10.0	8.35	95	70-130			
<b>Matrix Spike Dup (W2B1291-MSD1)</b>					<b>Source: 2A12057-03 Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	19.4	0.0038	0.010	ug/l	10.0	10.1	93	70-130	0.2	30	
<b>Matrix Spike Dup (W2B1291-MSD2)</b>					<b>Source: 2A12057-10 Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	17.6	0.0038	0.010	ug/l	10.0	8.35	92	70-130	2	30	
<b>Batch: W2B1292 - EPA 1640</b>											
<b>Blank (W2B1292-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1292-BS1)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	9.18	0.0038	0.010	ug/l	10.0		92	70-130			
<b>Matrix Spike (W2B1292-MS1)</b>					<b>Source: 2A20035-01 Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	22.8	0.0038	0.010	ug/l	10.0	12.2	106	70-130			
<b>Matrix Spike (W2B1292-MS2)</b>					<b>Source: 2A20035-02 Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	22.0	0.0038	0.010	ug/l	10.0	12.9	91	70-130			
<b>Matrix Spike Dup (W2B1292-MSD1)</b>					<b>Source: 2A20035-01 Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	21.7	0.0038	0.010	ug/l	10.0	12.2	95	70-130	5	30	
<b>Matrix Spike Dup (W2B1292-MSD2)</b>					<b>Source: 2A20035-02 Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	22.3	0.0038	0.010	ug/l	10.0	12.9	94	70-130	1	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

# Certificate of Analysis

## FINAL REPORT

**Reported:**  
02/18/2022 16:18

## Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

STANDARD

2A12057

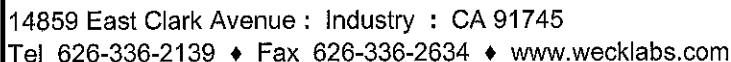
14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Page 1 Of 3

CLIENT NAME:				PROJECT:		ANALYSES REQUESTED										SPECIAL HANDLING		
Wood Environment & Infrastructure Solutions, Inc.				SIYB IWHC Pause Pilot Study (Port of San Diego)		<div>Method EPA 1640 MDL 0.0038 µg/L, RL = 0.01</div>										<input type="checkbox"/> Same Day Rush 150%		
ADDRESS:				PHONE: 858-300-4324												<input type="checkbox"/> 24 Hour Rush 100%		
9177 Sky Park Ct.				FAX: 858-300-4301												<input type="checkbox"/> 48-72 Hour Rush 75%		
San Diego, CA 92123				EMAIL: marisa.swiderski@woodplc.com												<input type="checkbox"/> 4 - 5 Day Rush 30%		
PROJECT MANAGER				SAMPLER												<input type="checkbox"/> Rush Extractions 50%		
Marisa Swiderski				Marisa Swiderski (MS) / Kate Buckley (KB)												<input checked="" type="checkbox"/> 10 Business Days		
																<input type="checkbox"/> QA/QC Data Package		
Charges will apply for weekends/holidays																		
Method of Shipment:																		
COMMENTS																		
ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.												
	01/11/22	11:35	seawater	C-1-W8		1	X											
	01/11/22	12:05	seawater	C-2-W8		1	X											
	01/11/22	11:25	seawater	C-3-W8		1	X											
	01/11/22	10:40	seawater	C-4-W8		1	X											
	01/11/22	11:25	seawater	C-5-W8		1	X											
	01/11/22	9:55	seawater	C-6-W8		1	X											
	01/11/22	11:00	seawater	C-7-W8		1	X											
	01/11/22	10:50	seawater	C-8-W8		1	X											
	01/11/22	10:40	seawater	C-9-W8		1	X											
	01/11/22	10:05	seawater	C-10-W8		1	X											
	01/11/22	10:20	seawater	C-10-Dup-W8		1	X										extra vol. analyze sample MS/MSD	
RELINQUISHED BY				DATE / TIME		RECEIVED BY				SAMPLE CONDITION:				SAMPLE TYPE CODE:				
Marisa Swiderski				01/12/2022 0900		Heck Sauch				Actual Temperature: 2.6				AQ=Aqueous				
RELINQUISHED BY				DATE / TIME		RECEIVED BY				Received On Ice				NA= Non Aqueous				
Heck Sauch				1-12-22		Heck Sauch				Preserved				SL = Sludge				
RELINQUISHED BY				DATE / TIME		RECEIVED BY				Evidence Seals Present				DW = Drinking Water				
										Container Intact				WW = Waste Water				
										Preserved at Lab				RW = Rain Water				
														GW = Ground Water				
														SO = Soil				
														SW = Solid Waste				
														OL = Oil				
														OT = Other Matrix				
SPECIAL REQUIREMENTS / BILLING INFORMATION												Please submit invoices to APInvoice.US@woodplc.com and include the following information :						
1) LAB ACTION: PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.												1) Project #: 2015100113.0002A.WECK						
2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.												2) PO #: N/A						
3) Preserve any extra volume of each sample for dissolved metals to archive.												3) Org: 3151						
4) SPIKE level at the following amounts: Copper = 10 ug/L												4) GL: 573000						
5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.																		





Analytical Laboratory Services - Since 1964

## STANDARD

2A17057

Page 2 Of 3

[illegible]

RELINQUISHED BY <i>Marie Swiderum</i>	DATE / TIME <i>01/12/2022 0900</i>	RECEIVED BY <i>Heck Sarch</i>	<b>SAMPLE CONDITION:</b> Actual Temperature: <i>2.6°</i>  Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab  <i>T-0234</i>	Y / N Y / N Y / N Y / N Y / N	<b>SAMPLE TYPE CODE:</b> AQ=Aqueous NA= Non Aqueous SL = Sludge
RELINQUISHED BY <i>Heck Sarch</i>	DATE / TIME <i>1103 1-12-22</i>	RECEIVED BY <i>Heck</i>			DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water
RELINQUISHED BY	DATE / TIME	RECEIVED BY			SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 ug/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.

Please submit invoices to [APIInvoice.US@woodplc.com](mailto:APIInvoice.US@woodplc.com) and include the following information :

- 1) Project #: 2015100113.0002A.WECK  
(2) PO #: N/A  
(3) Org: 3151  
(4) GL: 573000



## **WEEK 9 ANALYTICAL RESULTS**

Work Orders: 2A20035

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/22/2022

Received Date: 1/20/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 1/20/22 with the Chain-of-Custody document. The samples were received in good condition, at 3.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/22/2022 16:49

**Project Manager:** Marisa Swiderski

## Case Narrative

Final Report: This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W9	Marisa Swiderski/Kate Buckley	2A20035-01	Sea Water	01/19/22 10:45	
C-1-Dup-W9	Marisa Swiderski/Kate Buckley	2A20035-02	Sea Water	01/19/22 11:05	
C-2-W9	Marisa Swiderski/Kate Buckley	2A20035-03	Sea Water	01/19/22 10:55	
C-3-W9	Marisa Swiderski/Kate Buckley	2A20035-04	Sea Water	01/19/22 10:30	
C-4-W9	Marisa Swiderski/Kate Buckley	2A20035-05	Sea Water	01/19/22 10:00	
C-5-W9	Marisa Swiderski/Kate Buckley	2A20035-06	Sea Water	01/19/22 10:30	
C-6-W9	Marisa Swiderski/Kate Buckley	2A20035-07	Sea Water	01/19/22 09:30	
C-7-W9	Marisa Swiderski/Kate Buckley	2A20035-08	Sea Water	01/19/22 10:20	
C-8-W9	Marisa Swiderski/Kate Buckley	2A20035-09	Sea Water	01/19/22 10:00	
C-9-W9	Marisa Swiderski/Kate Buckley	2A20035-10	Sea Water	01/19/22 09:50	
C-10-W9	Marisa Swiderski/Kate Buckley	2A20035-11	Sea Water	01/19/22 09:30	
C-11-W9	Marisa Swiderski/Kate Buckley	2A20035-12	Sea Water	01/19/22 09:40	
C-12-W9	Marisa Swiderski/Kate Buckley	2A20035-13	Sea Water	01/19/22 09:20	
C-13-W9	Marisa Swiderski/Kate Buckley	2A20035-14	Sea Water	01/19/22 09:00	
C-REF-1-W9	Marisa Swiderski/Kate Buckley	2A20035-15	Sea Water	01/19/22 09:05	
C-REF-2-W9	Marisa Swiderski/Kate Buckley	2A20035-16	Sea Water	01/19/22 08:45	
FB-W9	Marisa Swiderski/Kate Buckley	2A20035-17	Water	01/19/22 08:30	
N8-ER-W9	Marisa Swiderski/Kate Buckley	2A20035-18	Water	01/19/22 08:40	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:49

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W9  
2A20035-01 (Sea Water)

Sampled: 01/19/22 10:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	12	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-1-Dup-W9  
2A20035-02 (Sea Water)

Sampled: 01/19/22 11:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	13	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-2-W9  
2A20035-03 (Sea Water)

Sampled: 01/19/22 10:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	15	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-3-W9  
2A20035-04 (Sea Water)

Sampled: 01/19/22 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	14	0.0038	0.010	ug/l	1	02/17/22	

## Sample Results

Sample: C-4-W9  
2A20035-05 (Sea Water)

Sampled: 01/19/22 10:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	12	0.0038	0.010	ug/l	1	02/17/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:49

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-5-W9 Sampled: 01/19/22 10:30 by Marisa Swiderski/Kate Buckley

2A20035-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1292

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/17/22 10:40

**Analyst:** ALN

**Copper, Dissolved** ..... **9.7** 0.0038 0.010 ug/l 1 02/17/22

## Sample Results

(Continued)

Sample: C-6-W9 Sampled: 01/19/22 9:30 by Marisa Swiderski/Kate Buckley

2A20035-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1292

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/17/22 10:40

**Analyst:** ALN

**Copper, Dissolved** ..... **9.7** 0.0038 0.010 ug/l 1 02/18/22

## Sample Results

(Continued)

Sample: C-7-W9 Sampled: 01/19/22 10:20 by Marisa Swiderski/Kate Buckley

2A20035-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1292

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/17/22 10:40

**Analyst:** ALN

**Copper, Dissolved** ..... **9.7** 0.0038 0.010 ug/l 1 02/18/22

## Sample Results

(Continued)

Sample: C-8-W9 Sampled: 01/19/22 10:00 by Marisa Swiderski/Kate Buckley

2A20035-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1292

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/17/22 10:40

**Analyst:** ALN

**Copper, Dissolved** ..... **11** 0.0038 0.010 ug/l 1 02/18/22

## Sample Results

(Continued)

Sample: C-9-W9 Sampled: 01/19/22 9:50 by Marisa Swiderski/Kate Buckley

2A20035-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1292

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/17/22 10:40

**Analyst:** ALN

**Copper, Dissolved** ..... **8.4** 0.0038 0.010 ug/l 1 02/18/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/22/2022 16:49

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-10-W9  
2A20035-11 (Sea Water)

Sampled: 01/19/22 9:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-11-W9  
2A20035-12 (Sea Water)

Sampled: 01/19/22 9:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.4	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-12-W9  
2A20035-13 (Sea Water)

Sampled: 01/19/22 9:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.9	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-13-W9  
2A20035-14 (Sea Water)

Sampled: 01/19/22 9:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	2.2	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-REF-1-W9  
2A20035-15 (Sea Water)

Sampled: 01/19/22 9:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	0.35	0.0038	0.010	ug/l	1	02/18/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:49

**Project Manager:** Marisa Swiderski

(Continued)

## Sample Results

Sample: C-REF-2-W9  
2A20035-16 (Sea Water) Sampled: 01/19/22 8:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:40	<b>Analyst:</b> ALN			
Copper, Dissolved	0.44	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: FB-W9  
2A20035-17 (Water) Sampled: 01/19/22 8:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1292	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/17/22 10:40	<b>Analyst:</b> ALN			
Copper, Dissolved	ND	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: N8-ER-W9  
2A20035-18 (Water) Sampled: 01/19/22 8:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)		<b>Prepared:</b> 02/17/22 18:11	<b>Analyst:</b> ALN			
Copper, Dissolved	0.033	0.0038	0.010	ug/l	1	02/18/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:49

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2B1292 - EPA 1640</b>											
<b>Blank (W2B1292-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1292-BS1)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	9.18	0.0038	0.010	ug/l	10.0		92	70-130			
<b>Matrix Spike (W2B1292-MS1)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	22.8	0.0038	0.010	ug/l	10.0	12.2	106	70-130			
<b>Matrix Spike (W2B1292-MS2)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	22.0	0.0038	0.010	ug/l	10.0	12.9	91	70-130			
<b>Matrix Spike Dup (W2B1292-MSD1)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	21.7	0.0038	0.010	ug/l	10.0	12.2	95	70-130	5	30	
<b>Matrix Spike Dup (W2B1292-MSD2)</b>					<b>Prepared &amp; Analyzed: 02/17/22</b>						
Copper, Dissolved	22.3	0.0038	0.010	ug/l	10.0	12.9	94	70-130	1	30	
<b>Batch: W2B1329 - EPA 1640</b>											
<b>Blank (W2B1329-BLK1)</b>					<b>Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1329-BS1)</b>					<b>Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	9.08	0.0038	0.010	ug/l	10.0		91	70-130			
<b>Matrix Spike (W2B1329-MS1)</b>					<b>Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	19.3	0.0038	0.010	ug/l	10.0	9.76	95	70-130			
<b>Matrix Spike (W2B1329-MS2)</b>					<b>Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	21.0	0.0038	0.010	ug/l	10.0	11.7	93	70-130			
<b>Matrix Spike Dup (W2B1329-MSD1)</b>					<b>Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	19.7	0.0038	0.010	ug/l	10.0	9.76	100	70-130	2	30	
<b>Matrix Spike Dup (W2B1329-MSD2)</b>					<b>Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	20.9	0.0038	0.010	ug/l	10.0	11.7	93	70-130	0.09	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/22/2022 16:49

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.



## CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ [www.wecklabs.com](http://www.wecklabs.com)

STANDARD 2A20035

Page 2 Of 2

CLIENT NAME:			PROJECT:			ANALYSES REQUESTED										SPECIAL HANDLING			
Wood Environment & Infrastructure Solutions, Inc.			SIYB IWHC Pause Pilot Study (Port of San Diego)			Dissolved Copper <sup>1,2</sup> EPA 1640 MDL 0.0038 µg/L, RL = 0.01 µg/L										Same Day Rush 150%			
ADDRESS:			PHONE: 858-300-4324													24 Hour Rush 100%			
9177 Sky Park Ct. San Diego, CA 92123			FAX: 858-300-4301													48-72 Hour Rush 75%			
PROJECT MANAGER			SAMPLER													4 - 5 Day Rush 30%			
Marisa Swiderski			Marisa Swiderski (MS) / Kate Buckley (KB)													Rush Extractions 50%			
ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.											10 Business Days		
	01/19/22	9:40	seawater	C-11-W9		1	X									QA/QC Data Package			
	01/19/22	9:20	seawater	C-12-W9		1	X									Charges will apply for weekends/holidays			
	01/19/22	9:00	seawater	C-13-W9		1	X									Method of Shipment:			
	01/19/22	9:05	seawater	C-REF-1-W9		1	X									COMMENTS			
	01/19/22	8:45	seawater	C-REF-2-W9		1	X												
	01/19/22	8:30	DI	FB-W9		1	X												
	01/19/22	8:40	DI	N8-ER-W9		1	X												
RELINQUISHED BY			DATE / TIME		RECEIVED BY			SAMPLE CONDITION:					SAMPLE TYPE CODE:						
Marisa Swiderski			01/20/2022 0900		Heck Sanchez			Actual Temperature: 3.2					AQ=Aqueous						
RELINQUISHED BY			DATE / TIME		RECEIVED BY			Received On Ice					NA= Non Aqueous						
Heck Sanchez			1-20-22 1135		Heck Sanchez 1/20/22 11:35			Preserved					SL = Sludge						
RELINQUISHED BY			DATE / TIME		RECEIVED BY			Evidence Seals Present					DW = Drinking Water						
								Container Intact					WW = Waste Water						
								Preserved at Lab					RW = Rain Water						
													GW = Ground Water						
													SO = Soil						
													SW = Solid Waste						
													OL = Oil						
													OT = Other Matrix						
SPECIAL REQUIREMENTS / BILLING INFORMATION										Please submit invoices to <a href="mailto:APInvoice.US@woodplc.com">APInvoice.US@woodplc.com</a> and include the following information :									
1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.										1) Project #: 2015100113.0002A.WECK									
2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.										(2) PO #: N/A									
3) Preserve any extra volume of each sample for dissolved metals to archive.										(3) Org: 3151									
4) SPIKE level at the following amounts: Copper = 10 ug/L										(4) GL: 573000									
5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.																			

## **WEEK 10 ANALYTICAL RESULTS**

Work Orders: 2A26038

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/22/2022

Received Date: 1/26/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 1/26/22 with the Chain-of-Custody document. The samples were received in good condition, at 3.9 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/22/2022 16:51

**Project Manager:** Marisa Swiderski

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W10	Marisa Swiderski/Kate Buckley	2A26038-01	Sea Water	01/25/22 11:35	
C-2-W10	Marisa Swiderski/Kate Buckley	2A26038-02	Sea Water	01/25/22 12:05	
C-3-W10	Marisa Swiderski/Kate Buckley	2A26038-03	Sea Water	01/25/22 11:20	
C-4-W10	Marisa Swiderski/Kate Buckley	2A26038-04	Sea Water	01/25/22 10:30	
C-5-W10	Marisa Swiderski/Kate Buckley	2A26038-05	Sea Water	01/25/22 11:00	
C-5-Dup-W10	Marisa Swiderski/Kate Buckley	2A26038-06	Sea Water	01/25/22 11:10	
C-6-W10	Marisa Swiderski/Kate Buckley	2A26038-07	Sea Water	01/25/22 09:45	
C-7-W10	Marisa Swiderski/Kate Buckley	2A26038-08	Sea Water	01/25/22 10:40	
C-8-W10	Marisa Swiderski/Kate Buckley	2A26038-09	Sea Water	01/25/22 10:30	
C-9-W10	Marisa Swiderski/Kate Buckley	2A26038-10	Sea Water	01/25/22 10:10	
C-10-W10	Marisa Swiderski/Kate Buckley	2A26038-11	Sea Water	01/25/22 09:45	
C-11-W10	Marisa Swiderski/Kate Buckley	2A26038-12	Sea Water	01/25/22 10:00	
C-12-W10	Marisa Swiderski/Kate Buckley	2A26038-13	Sea Water	01/25/22 09:25	
C-13-W10	Marisa Swiderski/Kate Buckley	2A26038-14	Sea Water	01/25/22 09:00	
C-REF-1-W10	Marisa Swiderski/Kate Buckley	2A26038-15	Sea Water	01/25/22 09:05	
C-REF-2-W10	Marisa Swiderski/Kate Buckley	2A26038-16	Sea Water	01/25/22 08:50	
FB-W10	Marisa Swiderski/Kate Buckley	2A26038-17	Water	01/25/22 08:30	
N3-ER-W10	Marisa Swiderski/Kate Buckley	2A26038-18	Water	01/25/22 08:40	
E-14-W10	Marisa Swiderski/Kate Buckley	2A26038-19	Sea Water	01/25/22 11:50	
E-15-W10	Marisa Swiderski/Kate Buckley	2A26038-20	Sea Water	01/25/22 11:10	
E-16-W10	Marisa Swiderski/Kate Buckley	2A26038-21	Sea Water	01/25/22 10:15	
E-17-W10	Marisa Swiderski/Kate Buckley	2A26038-22	Sea Water	01/25/22 10:50	
E-18-W10	Marisa Swiderski/Kate Buckley	2A26038-23	Sea Water	01/25/22 09:30	
E-19-W10	Marisa Swiderski/Kate Buckley	2A26038-24	Sea Water	01/25/22 09:35	
E-20-W10	Marisa Swiderski/Kate Buckley	2A26038-25	Sea Water	01/25/22 09:15	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:51

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W10  
2A26038-01 (Sea Water)

Sampled: 01/25/22 11:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	9.8	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

Sample: C-2-W10  
2A26038-02 (Sea Water)

Sampled: 01/25/22 12:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	12	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

Sample: C-3-W10  
2A26038-03 (Sea Water)

Sampled: 01/25/22 11:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	11	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

Sample: C-4-W10  
2A26038-04 (Sea Water)

Sampled: 01/25/22 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	10	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

Sample: C-5-W10  
2A26038-05 (Sea Water)

Sampled: 01/25/22 11:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	11	0.076	0.20	ug/l	20	02/18/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:51

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-5-Dup-W10 Sampled: 01/25/22 11:10 by Marisa Swiderski/Kate Buckley

2A26038-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1329

**Preparation:** \_NONE (METALS)

**Prepared:** 02/17/22 18:11

**Analyst:** ALN

**Copper, Dissolved** ..... **8.9** 0.0038 0.010 ug/l 1 02/18/22

## Sample Results

(Continued)

Sample: C-6-W10 Sampled: 01/25/22 9:45 by Marisa Swiderski/Kate Buckley

2A26038-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1329

**Preparation:** \_NONE (METALS)

**Prepared:** 02/17/22 18:11

**Analyst:** ALN

**Copper, Dissolved** ..... **9.7** 0.0038 0.010 ug/l 1 02/18/22

## Sample Results

(Continued)

Sample: C-7-W10 Sampled: 01/25/22 10:40 by Marisa Swiderski/Kate Buckley

2A26038-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1329

**Preparation:** \_NONE (METALS)

**Prepared:** 02/17/22 18:11

**Analyst:** ALN

**Copper, Dissolved** ..... **8.1** 0.0038 0.010 ug/l 1 02/18/22

## Sample Results

(Continued)

Sample: C-8-W10 Sampled: 01/25/22 10:30 by Marisa Swiderski/Kate Buckley

2A26038-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1329

**Preparation:** \_NONE (METALS)

**Prepared:** 02/17/22 18:11

**Analyst:** ALN

**Copper, Dissolved** ..... **7.5** 0.0038 0.010 ug/l 1 02/18/22

## Sample Results

(Continued)

Sample: C-9-W10 Sampled: 01/25/22 10:10 by Marisa Swiderski/Kate Buckley

2A26038-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1329

**Preparation:** \_NONE (METALS)

**Prepared:** 02/17/22 18:11

**Analyst:** ALN

**Copper, Dissolved** ..... **6.9** 0.0038 0.010 ug/l 1 02/18/22



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:51

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-10-W10 Sampled: 01/25/22 9:45 by Marisa Swiderski/Kate Buckley

2A26038-11 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	7.6	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-11-W10 Sampled: 01/25/22 10:00 by Marisa Swiderski/Kate Buckley

2A26038-12 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	7.7	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-12-W10 Sampled: 01/25/22 9:25 by Marisa Swiderski/Kate Buckley

2A26038-13 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	17	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-13-W10 Sampled: 01/25/22 9:00 by Marisa Swiderski/Kate Buckley

2A26038-14 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	3.4	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-REF-1-W10 Sampled: 01/25/22 9:05 by Marisa Swiderski/Kate Buckley

2A26038-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)	<b>Prepared:</b> 02/17/22 18:11		<b>Analyst:</b> ALN			
Copper, Dissolved	1.8	0.0038	0.010	ug/l	1	02/18/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/22/2022 16:51

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-REF-2-W10  
2A26038-16 (Sea Water)

Sampled: 01/25/22 8:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.8	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: FB-W10  
2A26038-17 (Water)

Sampled: 01/25/22 8:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	ND	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: N3-ER-W10  
2A26038-18 (Water)

Sampled: 01/25/22 8:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.9	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: E-14-W10  
2A26038-19 (Sea Water)

Sampled: 01/25/22 11:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1329	<b>Preparation:</b> _NONE (METALS)						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.2	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: E-15-W10  
2A26038-20 (Sea Water)

Sampled: 01/25/22 11:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	02/18/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:51

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: E-16-W10  
2A26038-21 (Sea Water)

Sampled: 01/25/22 10:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: E-17-W10  
2A26038-22 (Sea Water)

Sampled: 01/25/22 10:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: E-18-W10  
2A26038-23 (Sea Water)

Sampled: 01/25/22 9:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: E-19-W10  
2A26038-24 (Sea Water)

Sampled: 01/25/22 9:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.7	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: E-20-W10  
2A26038-25 (Sea Water)

Sampled: 01/25/22 9:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.2	0.0038	0.010	ug/l	1	02/18/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:51

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2B1329 - EPA 1640</b>											
<b>Blank (W2B1329-BLK1)</b>					<b>Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1329-BS1)</b>					<b>Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	9.08	0.0038	0.010	ug/l	10.0		91	70-130			
<b>Matrix Spike (W2B1329-MS1)</b>					<b>Source: 2A26038-01 Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	19.3	0.0038	0.010	ug/l	10.0	9.76	95	70-130			
<b>Matrix Spike (W2B1329-MS2)</b>					<b>Source: 2A26038-02 Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	21.0	0.0038	0.010	ug/l	10.0	11.7	93	70-130			
<b>Matrix Spike Dup (W2B1329-MSD1)</b>					<b>Source: 2A26038-01 Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	19.7	0.0038	0.010	ug/l	10.0	9.76	100	70-130	2	30	
<b>Matrix Spike Dup (W2B1329-MSD2)</b>					<b>Source: 2A26038-02 Prepared: 02/17/22 Analyzed: 02/18/22</b>						
Copper, Dissolved	20.9	0.0038	0.010	ug/l	10.0	11.7	93	70-130	0.09	30	
<b>Batch: W2B1374 - EPA 1640</b>											
<b>Blank (W2B1374-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1374-BS1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	9.54	0.0038	0.010	ug/l	10.0		95	70-130			
<b>Matrix Spike (W2B1374-MS1)</b>					<b>Source: 2A26038-20 Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	20.6	0.0038	0.010	ug/l	10.0	10.7	99	70-130			
<b>Matrix Spike (W2B1374-MS2)</b>					<b>Source: 2A26038-21 Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	21.2	0.0038	0.010	ug/l	10.0	10.9	103	70-130			
<b>Matrix Spike Dup (W2B1374-MSD1)</b>					<b>Source: 2A26038-20 Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	21.2	0.0038	0.010	ug/l	10.0	10.7	105	70-130	3	30	
<b>Matrix Spike Dup (W2B1374-MSD2)</b>					<b>Source: 2A26038-21 Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	20.6	0.0038	0.010	ug/l	10.0	10.9	96	70-130	3	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:51

**Project Manager:** Marisa Swiderski

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

**Weck Laboratories, Inc.**  
Analytical Laboratory Services - Since 1964





Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

# CHAIN OF CUSTODY RECORD

STANDARD

2A260390

Page 2 Of 3

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.				PROJECT: SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED										SPECIAL HANDLING	
ADDRESS: 9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a> <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>		<div>Method EPA 1640 MDL 0.0038 µg/L, RL = 0.01</div> <div>Dissolved Copper<sup>1,2</sup></div>										Same Day Rush 150% 24 Hour Rush 100% 48-72 Hour Rush 75% 4 - 5 Day Rush 30% Rush Extractions 50% 10 Business Days QA/QC Data Package	
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Kate Buckley (KB)												Charges will apply for weekends/holidays	
ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.											COMMENTS	
	01/25/22	10:00	seawater	C-11-W10	1	X											
	01/25/22	9:25	seawater	C-12-W10	1	X											
	01/25/22	9:00	seawater	C-13-W10	1	X											
	01/25/22	9:05	seawater	C-REF-1-W10	1	X											
	01/25/22	8:50	seawater	C-REF-2-W10	1	X											
	01/25/22	8:30	DI	FB-W10	1	X											
	01/25/22	8:40	DI	N3-ER-W10	1	X											
	01/25/22	11:50	seawater	E-14-W10	1	X											
	01/25/22	11:10	seawater	E-15-W10	1	X											
	01/25/22	10:15	seawater	E-16-W10	1	X											
	01/25/22	10:50	seawater	E-17-W10	1	X											

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 01/26/2022 0900	RECEIVED BY <i>Heidi Sack</i>	SAMPLE CONDITION: Actual Temperature: 39°C	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Heidi Sack</i>	DATE / TIME 1-26-22	RECEIVED BY <i>Janahm 1/26/22 1208</i>	Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab	
RELINQUISHED BY	DATE / TIME	RECEIVED BY	<i>TD251</i>	

SPECIAL REQUIREMENTS / BILLING INFORMATION		Please submit invoices to <a href="mailto:APIInvoice.US@woodplc.com">APIInvoice.US@woodplc.com</a> and include the following information : 1) Project #: 2015100113.0002A.WECK 2) PO #: N/A 3) Org: 3151 4) GL: 573000
1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle. 2) Dissolved metals were field filtered using 0.45 um bottletop filt. system. 3) Preserve any extra volume of each sample for dissolved metals to archive. 4) SPIKE level at the following amounts: Copper = 10 ug/L 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.		

1 cooler + 4 cases  
filter towers

<p><b>SPECIAL REQUIREMENTS / BILLING INFORMATION</b></p> <p>1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.</p> <p>2) Dissolved metals were field filtered using 0.45 um bottletop filt. system.</p> <p>3) Preserve any extra volume of each sample for dissolved metals to archive.</p> <p>4) SPIKE level at the following amounts: Copper = 10 ug/L</p> <p>5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.</p>	<p>Please submit invoices to <a href="mailto:APInvoice.US@woodplc.com">APInvoice.US@woodplc.com</a> and include the following information :</p> <p>1) Project #: 2015100113.0002A.WECK</p> <p>2) PO #: N/A</p> <p>3) Org: 3151</p> <p>4) GL: 573000</p>
--	---

## **WEEK 10 REANALYSES ANALYTICAL RESULTS**

Work Orders: 2A26038

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 4/29/2022

Received Date: 1/26/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

EPA-UCMR #CA00211 • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 1/26/22 with the Chain-of-Custody document. The samples were received in good condition, at 3.9 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

# Certificate of Analysis

## SUPPLEMENTAL REPORT

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/29/2022 11:06

**Project Manager:** Marisa Swiderski

### Case Narrative

This is a Supplement to the Certificate of Analysis previously issued 2/22/22 for the above referenced Project to report confirmation analyses.

### Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-12-W10	Marisa Swiderski/Kate Buckley	2A26038-13	Sea Water	01/25/22 09:25	
N3-ER-W10	Marisa Swiderski/Kate Buckley	2A26038-18	Water	01/25/22 08:40	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/29/2022 11:06

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-12-W10  
2A26038-13RE1 (Sea Water) Sampled: 01/25/22 9:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2D1775	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 04/25/22 09:40		<b>Analyst:</b> ALN		
Copper, Dissolved	8.3	0.0038	0.010	ug/l	1	04/27/22	

## Sample Results

Sample: N3-ER-W10  
2A26038-18RE1 (Water) Sampled: 01/25/22 8:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2D1775	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 04/25/22 09:40		<b>Analyst:</b> ALN		
Copper, Dissolved	0.074	0.0038	0.010	ug/l	1	04/27/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/29/2022 11:06

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2D1775 - EPA 1640</b>											
<b>Blank (W2D1775-BLK1)</b>					<b>Prepared: 04/25/22 Analyzed: 04/27/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2D1775-BS1)</b>					<b>Prepared: 04/25/22 Analyzed: 04/27/22</b>						
Copper, Dissolved	9.29	0.0038	0.010	ug/l	10.0		93	70-130			
<b>Matrix Spike (W2D1775-MS1)</b>					<b>Source: 2A26038-18RE1 Prepared: 04/25/22 Analyzed: 04/27/22</b>						
Copper, Dissolved	9.27	0.0038	0.010	ug/l	10.0	0.0741	92	70-130			
<b>Matrix Spike Dup (W2D1775-MSD1)</b>					<b>Source: 2A26038-18RE1 Prepared: 04/25/22 Analyzed: 04/27/22</b>						
Copper, Dissolved	9.32	0.0038	0.010	ug/l	10.0	0.0741	92	70-130	0.5	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/29/2022 11:06

**Project Manager:** Marisa Swiderski

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

## **WEEK 11 ANALYTICAL RESULTS**

Work Orders: 2B01027

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/22/2022

Received Date: 2/1/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 2/01/22 with the Chain-of-Custody document. The samples were received in good condition, at 4.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/22/2022 16:52

**Project Manager:** Marisa Swiderski

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W11	Marisa Swiderski/Rolf Schottle	2B01027-01	Sea Water	01/31/22 11:25	
C-2-W11	Marisa Swiderski/Rolf Schottle	2B01027-02	Sea Water	01/31/22 12:00	
C-3-W11	Marisa Swiderski/Rolf Schottle	2B01027-03	Sea Water	01/31/22 11:30	
C-4-W11	Marisa Swiderski/Rolf Schottle	2B01027-04	Sea Water	01/31/22 11:05	
C-5-W11	Marisa Swiderski/Rolf Schottle	2B01027-05	Sea Water	01/31/22 11:00	
C-6-W11	Marisa Swiderski/Rolf Schottle	2B01027-06	Sea Water	01/31/22 10:25	
C-6-Dup-W11	Marisa Swiderski/Rolf Schottle	2B01027-07	Sea Water	01/31/22 10:35	
C-7-W11	Marisa Swiderski/Rolf Schottle	2B01027-08	Sea Water	01/31/22 10:50	
C-8-W11	Marisa Swiderski/Rolf Schottle	2B01027-09	Sea Water	01/31/22 10:40	
C-9-W11	Marisa Swiderski/Rolf Schottle	2B01027-10	Sea Water	01/31/22 10:30	
C-10-W11	Marisa Swiderski/Rolf Schottle	2B01027-11	Sea Water	01/31/22 10:10	
C-11-W11	Marisa Swiderski/Rolf Schottle	2B01027-12	Sea Water	01/31/22 10:20	
C-12-W11	Marisa Swiderski/Rolf Schottle	2B01027-13	Sea Water	01/31/22 10:00	
C-13-W11	Marisa Swiderski/Rolf Schottle	2B01027-14	Sea Water	01/31/22 09:50	
C-REF-1-W11	Marisa Swiderski/Rolf Schottle	2B01027-15	Sea Water	01/31/22 09:45	
C-REF-2-W11	Marisa Swiderski/Rolf Schottle	2B01027-16	Sea Water	01/31/22 09:35	
FB-W11	Marisa Swiderski/Rolf Schottle	2B01027-17	Water	01/31/22 09:25	
N8-ER-W11	Marisa Swiderski/Rolf Schottle	2B01027-18	Water	01/31/22 09:35	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/22/2022 16:52

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W11  
2B01027-01 (Sea Water) Sampled: 01/31/22 11:25 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.8	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

Sample: C-2-W11  
2B01027-02 (Sea Water) Sampled: 01/31/22 12:00 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.6	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

Sample: C-3-W11  
2B01027-03 (Sea Water) Sampled: 01/31/22 11:30 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.4	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

Sample: C-4-W11  
2B01027-04 (Sea Water) Sampled: 01/31/22 11:05 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.1	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

Sample: C-5-W11  
2B01027-05 (Sea Water) Sampled: 01/31/22 11:00 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.9	0.0038	0.010	ug/l	1	02/18/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/22/2022 16:52

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-6-W11  
2B01027-06 (Sea Water)

Sampled: 01/31/22 10:25 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.076	0.20	ug/l	20	02/18/22	

## Sample Results

(Continued)

Sample: C-6-Dup-W11  
2B01027-07 (Sea Water)

Sampled: 01/31/22 10:35 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.7	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-7-W11  
2B01027-08 (Sea Water)

Sampled: 01/31/22 10:50 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.2	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-8-W11  
2B01027-09 (Sea Water)

Sampled: 01/31/22 10:40 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.7	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-9-W11  
2B01027-10 (Sea Water)

Sampled: 01/31/22 10:30 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	11	0.076	0.20	ug/l	20	02/18/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/22/2022 16:52

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-10-W11 Sampled: 01/31/22 10:10 by Marisa Swiderski/Rolf Schottle

2B01027-11 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/18/22 13:47			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	8.6	0.076	0.20	ug/l	20	02/18/22	

## Sample Results

(Continued)

Sample: C-11-W11 Sampled: 01/31/22 10:20 by Marisa Swiderski/Rolf Schottle

2B01027-12 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/18/22 13:47			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	8.1	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-12-W11 Sampled: 01/31/22 10:00 by Marisa Swiderski/Rolf Schottle

2B01027-13 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/18/22 13:47			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	6.0	0.0038	0.010	ug/l	1	02/18/22	

## Sample Results

(Continued)

Sample: C-13-W11 Sampled: 01/31/22 9:50 by Marisa Swiderski/Rolf Schottle

2B01027-14 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1374	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/18/22 13:47			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	3.0	0.076	0.20	ug/l	20	02/18/22	

## Sample Results

(Continued)

Sample: C-REF-1-W11 Sampled: 01/31/22 9:45 by Marisa Swiderski/Rolf Schottle

2B01027-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/18/22 15:33			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	0.56	0.0038	0.010	ug/l	1	02/19/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:52

**Project Manager:** Marisa Swiderski

(Continued)

## Sample Results

Sample: C-REF-2-W11  
2B01027-16 (Sea Water) Sampled: 01/31/22 9:35 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/18/22 15:33	<b>Analyst:</b> ALN			
Copper, Dissolved	0.90	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: FB-W11  
2B01027-17 (Water) Sampled: 01/31/22 9:25 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/18/22 15:33	<b>Analyst:</b> ALN			
Copper, Dissolved	ND	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: N8-ER-W11  
2B01027-18 (Water) Sampled: 01/31/22 9:35 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 02/18/22 15:33	<b>Analyst:</b> ALN			
Copper, Dissolved	ND	0.0038	0.010	ug/l	1	02/19/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/22/2022 16:52

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2B1374 - EPA 1640</b>											
<b>Blank (W2B1374-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1374-BS1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	9.54	0.0038	0.010	ug/l	10.0		95	70-130			
<b>Matrix Spike (W2B1374-MS1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	20.6	0.0038	0.010	ug/l	10.0	10.7	99	70-130			
<b>Matrix Spike (W2B1374-MS2)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	21.2	0.0038	0.010	ug/l	10.0	10.9	103	70-130			
<b>Matrix Spike Dup (W2B1374-MSD1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	21.2	0.0038	0.010	ug/l	10.0	10.7	105	70-130	3	30	
<b>Matrix Spike Dup (W2B1374-MSD2)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	20.6	0.0038	0.010	ug/l	10.0	10.9	96	70-130	3	30	
<b>Batch: W2B1377 - EPA 1640</b>											
<b>Blank (W2B1377-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1377-BS1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	9.50	0.0038	0.010	ug/l	10.0		95	70-130			
<b>Matrix Spike (W2B1377-MS1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	10.4	0.0038	0.010	ug/l	10.0	0.559	99	70-130			
<b>Matrix Spike (W2B1377-MS2)</b>					<b>Prepared: 02/18/22 Analyzed: 02/19/22</b>						
Copper, Dissolved	10.4	0.0038	0.010	ug/l	10.0	0.899	95	70-130			
<b>Matrix Spike Dup (W2B1377-MSD1)</b>					<b>Prepared: 02/18/22 Analyzed: 02/19/22</b>						
Copper, Dissolved	10.2	0.0038	0.010	ug/l	10.0	0.559	96	70-130	3	30	
<b>Matrix Spike Dup (W2B1377-MSD2)</b>					<b>Prepared: 02/18/22 Analyzed: 02/19/22</b>						
Copper, Dissolved	11.1	0.0038	0.010	ug/l	10.0	0.899	102	70-130	7	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/22/2022 16:52

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

## CHAIN OF CUSTODY RECORD

2B01027

STANDARD

Page 1 Of 2

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

CLIENT NAME:

Wood Environment &amp; Infrastructure Solutions, Inc.

ADDRESS:

9177 Sky Park Ct.  
San Diego, CA 92123

PROJECT:

SIYB IWHC Pause Pilot Study  
(Port of San Diego)

PHONE: 858-300-4324

FAX: 858-300-4301

EMAIL: [marisa.swiderski@woodplc.com](mailto:marisa.swiderski@woodplc.com)  
[barry.snyder@woodplc.com](mailto:barry.snyder@woodplc.com)

PROJECT MANAGER

Marisa Swiderski

SAMPLER

Marisa Swiderski (MS) / Rolf Schottle (RS)

## ANALYSES REQUESTED

## SPECIAL HANDLING

- ☐ Same Day Rush 150%  
☐ 24 Hour Rush 100%  
☐ 48-72 Hour Rush 75%  
☐ 4 - 5 Day Rush 30%  
☐ Rush Extractions 50%  
☒ 10 Business Days  
☐ QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Dissolved Copper <sup>12</sup> EPA 1640 MDL 0.0038 µg/L, RL= 0.01 µg/L														
	01/31/22	11:25	seawater	C-1-W11	1	X														
	01/31/22	12:00	seawater	C-2-W11	1	X														
	01/31/22	11:30	seawater	C-3-W11	1	X														
	01/31/22	11:05	seawater	C-4-W11	1	X														
	01/31/22	11:00	seawater	C-5-W11	1	X														
	01/31/22	10:25	seawater	C-6-W11	1	X														
	01/31/22	10:35	seawater	C-6-Dup-W11	1	X														
	01/31/22	10:50	seawater	C-7-W11	1	X														
	01/31/22	10:40	seawater	C-8-W11	1	X														
	01/31/22	10:30	seawater	C-9-W11	1	X														
	01/31/22	10:10	seawater	C-10-W11	1	X														

extra vol. analyze sample MS/MSD

RELINQUISHED BY

Marisa Swiderski

DATE / TIME

02/01/2022 0900

RECEIVED BY

Masah 02/01/2022

9:00

SAMPLE CONDITION:

Actual Temperature:

4.2°C

SAMPLE TYPE CODE:

AQ=Aqueous  
NA= Non Aqueous  
SL = Sludge  
DW = Drinking Water  
WW = Waste Water  
RW = Rain Water  
GW = Ground Water  
SO = Soil  
SW = Solid Waste  
OL = Oil  
OT = Other Matrix

RELINQUISHED BY

Masah

DATE / TIME

02-01-22/11:18

RECEIVED BY

Jamal 02/01/22 1118

Received On Ice  
Preserved  
Evidence Seals Present  
Container Intact  
Preserved at LabY/N  
Y/N  
Y/N  
Y/N

RELINQUISHED BY

DATE / TIME

RECEIVED BY

JOS4

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
- 2) Dissolved metals were field filtered using 0.45 µm bottletop filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 µg/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.

Please submit invoices to [APInvoice.US@woodplc.com](mailto:APInvoice.US@woodplc.com) and include the following information :

- 1) Project #: 2015100113.0002A.WECK
- 2) PO #: N/A
- 3) Org: 3151
- 4) GL: 573000





Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

2B01027

STANDARD

Page 2 Of 2

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

CLIENT NAME:				PROJECT:		ANALYSES REQUESTED										SPECIAL HANDLING																					
Wood Environment & Infrastructure Solutions, Inc.				SIYB IWHC Pause Pilot Study (Port of San Diego)		<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Dissolved Copper<sup>13</sup> EPA 1640 MDL 0.0038 µg/L, RL= 0.01 µg/L</div> <table border="1" style="width: 100%; height: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> </div>																														<input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package	
ADDRESS:				PHONE: 858-300-4324												Charges will apply for weekends/holidays		Method of Shipment:																			
9177 Sky Park Ct.				FAX: 858-300-4301																																	
San Diego, CA 92123				EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a> <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>																																	
PROJECT MANAGER				SAMPLER												COMMENTS																					
Marisa Swiderski				Marisa Swiderski (MS) / Rolf Schottle (RS)																																	
ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.																																
	01/31/22	10:20	seawater	C-11-W11	1	X																															
	01/31/22	10:00	seawater	C-12-W11	1	X																															
	01/31/22	9:50	seawater	C-13-W11	1	X																															
	01/31/22	9:45	seawater	C-REF-1-W11	1	X																															
	01/31/22	9:35	seawater	C-REF-2-W11	1	X																															
	01/31/22	9:25	DI	FB-W11	1	X																															
	01/31/22	9:35	DI	N8-ER-W11	1	X																															

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 02/01/2022 0900	RECEIVED BY <i>Magaly</i> 02-01-22 / 9:00	SAMPLE CONDITION: Actual Temperature: 4.2°C Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab T0254	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Magaly</i>	DATE / TIME 02-01-22 / 11:18	RECEIVED BY <i>Jordan</i> 02/01/22 1118		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

SPECIAL REQUIREMENTS / BILLING INFORMATION		Please submit invoices to <a href="mailto:APInvoice.US@woodplc.com">APInvoice.US@woodplc.com</a> and include the following information :	
1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle. 2) Dissolved metals were field filtered using 0.45 um bottle top filt. system. 3) Preserve any extra volume of each sample for dissolved metals to archive. 4) SPIKE level at the following amounts: Copper = 10 ug/L 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.		1) Project #: 2015100113.0002A.WECK (2) PO #: N/A (3) Org: 3151 (4) GL: 573000	

## **WEEK 12 ANALYTICAL RESULTS**

Work Orders: 2B10049

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/23/2022

Received Date: 2/10/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 2/10/22 with the Chain-of-Custody document. The samples were received in good condition, at 4.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/23/2022 18:39

**Project Manager:** Marisa Swiderski

## Case Narrative

Final Report: This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of NELAC unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W12	Marisa Swiderski/Kate Buckley	2B10049-01	Sea Water	02/09/22 11:20	
C-2-W12	Marisa Swiderski/Kate Buckley	2B10049-02	Sea Water	02/09/22 12:00	
C-3-W12	Marisa Swiderski/Kate Buckley	2B10049-03	Sea Water	02/09/22 11:10	
C-4-W12	Marisa Swiderski/Kate Buckley	2B10049-04	Sea Water	02/09/22 10:30	
C-5-W12	Marisa Swiderski/Kate Buckley	2B10049-05	Sea Water	02/09/22 10:55	
C-6-W12	Marisa Swiderski/Kate Buckley	2B10049-06	Sea Water	02/09/22 09:45	
C-7-W12	Marisa Swiderski/Kate Buckley	2B10049-07	Sea Water	02/09/22 10:35	
C-8-W12	Marisa Swiderski/Kate Buckley	2B10049-08	Sea Water	02/09/22 10:25	
C-9-W12	Marisa Swiderski/Kate Buckley	2B10049-09	Sea Water	02/09/22 10:15	
C-10-W12	Marisa Swiderski/Kate Buckley	2B10049-10	Sea Water	02/09/22 09:55	
C-11-W12	Marisa Swiderski/Kate Buckley	2B10049-11	Sea Water	02/09/22 10:00	
C-12-W12	Marisa Swiderski/Kate Buckley	2B10049-12	Sea Water	02/09/22 09:30	
C-13-W12	Marisa Swiderski/Kate Buckley	2B10049-13	Sea Water	02/09/22 09:00	
C-REF-1-W12	Marisa Swiderski/Kate Buckley	2B10049-14	Sea Water	02/09/22 09:10	
C-REF-2-W12	Marisa Swiderski/Kate Buckley	2B10049-15	Sea Water	02/09/22 08:55	
FB-W12	Marisa Swiderski/Kate Buckley	2B10049-16	Sea Water	02/09/22 08:35	
N3-ER-W12	Marisa Swiderski/Kate Buckley	2B10049-17	Sea Water	02/09/22 08:45	
E-14-W12	Marisa Swiderski/Kate Buckley	2B10049-18	Sea Water	02/09/22 11:35	
E-14-Dup-W12	Marisa Swiderski/Kate Buckley	2B10049-19	Sea Water	02/09/22 11:45	
E-15-W12	Marisa Swiderski/Kate Buckley	2B10049-20	Sea Water	02/09/22 10:55	
E-16-W12	Marisa Swiderski/Kate Buckley	2B10049-21	Sea Water	02/09/22 10:15	
E-17-W12	Marisa Swiderski/Kate Buckley	2B10049-22	Sea Water	02/09/22 10:45	
E-18-W12	Marisa Swiderski/Kate Buckley	2B10049-23	Sea Water	02/09/22 09:30	
E-19-W12	Marisa Swiderski/Kate Buckley	2B10049-24	Sea Water	02/09/22 09:45	
E-20-W12	Marisa Swiderski/Kate Buckley	2B10049-25	Sea Water	02/09/22 09:20	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/23/2022 18:39

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W12  
2B10049-01 (Sea Water)

Sampled: 02/09/22 11:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	9.4	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

Sample: C-2-W12  
2B10049-02 (Sea Water)

Sampled: 02/09/22 12:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	9.5	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

Sample: C-3-W12  
2B10049-03 (Sea Water)

Sampled: 02/09/22 11:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

Sample: C-4-W12  
2B10049-04 (Sea Water)

Sampled: 02/09/22 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	9.8	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

Sample: C-5-W12  
2B10049-05 (Sea Water)

Sampled: 02/09/22 10:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	9.6	0.0038	0.010	ug/l	1	02/19/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/23/2022 18:39

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-6-W12  
2B10049-06 (Sea Water)

Sampled: 02/09/22 9:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: C-7-W12  
2B10049-07 (Sea Water)

Sampled: 02/09/22 10:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	9.2	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: C-8-W12  
2B10049-08 (Sea Water)

Sampled: 02/09/22 10:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	9.7	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: C-9-W12  
2B10049-09 (Sea Water)

Sampled: 02/09/22 10:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: C-10-W12  
2B10049-10 (Sea Water)

Sampled: 02/09/22 9:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377							
<b>Preparation:</b> EPA 1640#Preconcentration							
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 02/18/22 15:33							
<b>Analyst:</b> ALN							
<b>Copper, Dissolved</b>	8.5	0.0038	0.010	ug/l	1	02/19/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/23/2022 18:39

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-11-W12  
2B10049-11 (Sea Water)

Sampled: 02/09/22 10:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.9	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: C-12-W12  
2B10049-12 (Sea Water)

Sampled: 02/09/22 9:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	5.7	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: C-13-W12  
2B10049-13 (Sea Water)

Sampled: 02/09/22 9:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	3.6	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: C-REF-1-W12  
2B10049-14 (Sea Water)

Sampled: 02/09/22 9:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.6	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: C-REF-2-W12  
2B10049-15 (Sea Water)

Sampled: 02/09/22 8:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.3	0.0038	0.010	ug/l	1	02/19/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/23/2022 18:39

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: FB-W12  
2B10049-16 (Sea Water)

Sampled: 02/09/22 8:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1377	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.1	0.0038	0.010	ug/l	1	02/19/22	

## Sample Results

(Continued)

Sample: N3-ER-W12  
2B10049-17 (Sea Water)

Sampled: 02/09/22 8:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	0.092	0.0038	0.010	ug/l	1	02/22/22	

## Sample Results

(Continued)

Sample: E-14-W12  
2B10049-18 (Sea Water)

Sampled: 02/09/22 11:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.6	0.0038	0.010	ug/l	1	02/22/22	

## Sample Results

(Continued)

Sample: E-14-Dup-W12  
2B10049-19 (Sea Water)

Sampled: 02/09/22 11:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.2	0.0038	0.010	ug/l	1	02/22/22	

## Sample Results

(Continued)

Sample: E-15-W12  
2B10049-20 (Sea Water)

Sampled: 02/09/22 10:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/22/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/23/2022 18:39

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: E-16-W12  
2B10049-21 (Sea Water)

Sampled: 02/09/22 10:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.5	0.0038	0.010	ug/l	1	02/22/22	

## Sample Results

(Continued)

Sample: E-17-W12  
2B10049-22 (Sea Water)

Sampled: 02/09/22 10:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	12	0.0038	0.010	ug/l	1	02/23/22	

## Sample Results

(Continued)

Sample: E-18-W12  
2B10049-23 (Sea Water)

Sampled: 02/09/22 9:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	10	0.0038	0.010	ug/l	1	02/23/22	

## Sample Results

(Continued)

Sample: E-19-W12  
2B10049-24 (Sea Water)

Sampled: 02/09/22 9:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.5	0.0038	0.010	ug/l	1	02/23/22	

## Sample Results

(Continued)

Sample: E-20-W12  
2B10049-25 (Sea Water)

Sampled: 02/09/22 9:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1455	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> aln
<b>Copper, Dissolved</b>	6.8	0.0038	0.010	ug/l	1	02/23/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/23/2022 18:39

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2B1377 - EPA 1640</b>											
<b>Blank (W2B1377-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1377-BS1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	9.50	0.0038	0.010	ug/l	10.0		95	70-130			
<b>Matrix Spike (W2B1377-MS1)</b>					<b>Prepared &amp; Analyzed: 02/18/22</b>						
Copper, Dissolved	10.4	0.0038	0.010	ug/l	10.0	0.559	99	70-130			
<b>Matrix Spike (W2B1377-MS2)</b>					<b>Prepared: 02/18/22 Analyzed: 02/19/22</b>						
Copper, Dissolved	10.4	0.0038	0.010	ug/l	10.0	0.899	95	70-130			
<b>Matrix Spike Dup (W2B1377-MSD1)</b>					<b>Prepared: 02/18/22 Analyzed: 02/19/22</b>						
Copper, Dissolved	10.2	0.0038	0.010	ug/l	10.0	0.559	96	70-130	3	30	
<b>Matrix Spike Dup (W2B1377-MSD2)</b>					<b>Prepared: 02/18/22 Analyzed: 02/19/22</b>						
Copper, Dissolved	11.1	0.0038	0.010	ug/l	10.0	0.899	102	70-130	7	30	
<b>Batch: W2B1455 - EPA 1640</b>											
<b>Blank (W2B1455-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/22/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1455-BS1)</b>					<b>Prepared &amp; Analyzed: 02/22/22</b>						
Copper, Dissolved	9.72	0.0038	0.010	ug/l	10.0		97	70-130			
<b>Matrix Spike (W2B1455-MS1)</b>					<b>Prepared &amp; Analyzed: 02/22/22</b>						
Copper, Dissolved	19.6	0.0038	0.010	ug/l	10.0	9.58	100	70-130			
<b>Matrix Spike Dup (W2B1455-MSD1)</b>					<b>Prepared &amp; Analyzed: 02/22/22</b>						
Copper, Dissolved	19.6	0.0038	0.010	ug/l	10.0	9.58	100	70-130	0.09	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/23/2022 18:39

**Project Manager:** Marisa Swiderski

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

STANDARD

231004d

Page 1 Of 3

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

CLIENT NAME:				PROJECT:		ANALYSES REQUESTED										SPECIAL HANDLING																						
Wood Environment & Infrastructure Solutions, Inc.				SIYB IWHC Pause Pilot Study (Port of San Diego)		<div style="display: flex; align-items: center;"><div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Dissolved Copper<sup>2+</sup> Method EPA 1640 MDL 0.0038 µg/L, RL = 0.01</div><table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div>																															<input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package	
ADDRESS:				PHONE: 858-300-4324												Charges will apply for weekends/holidays		Method of Shipment:																				
9177 Sky Park Ct. San Diego, CA 92123				FAX: 858-300-4301																																		
PROJECT MANAGER				SAMPLER																																		
Marisa Swiderski				Marisa Swiderski (MS) / Kate Buckley (KB)																																		
ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.											COMMENTS																					
	02/09/22	11:20	seawater	C-1-W12		1	X																															
	02/09/22	12:00	seawater	C-2-W12		1	X																															
	02/09/22	11:10	seawater	C-3-W12		1	X																															
	02/09/22	10:30	seawater	C-4-W12		1	X																															
	02/09/22	10:55	seawater	C-5-W12		1	X																															
	02/09/22	9:45	seawater	C-6-W12		1	X																															
	02/09/22	10:35	seawater	C-7-W12		1	X																															
	02/09/22	10:25	seawater	C-8-W12		1	X																															
	02/09/22	10:15	seawater	C-9-W12		1	X																															
	02/09/22	9:55	seawater	C-10-W12		1	X																															
	02/09/22	10:00	seawater	C-11-W12		1	X																															

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 02/10/2022 0900	RECEIVED BY <i>Heidi Sanchez</i>	SAMPLE CONDITION: Actual Temperature: 4.4°C Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab  70234	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Heidi Sanchez</i>	DATE / TIME 2-10-11/1100	RECEIVED BY <i>Sanchez</i> 02/10/22 1100		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

SPECIAL REQUIREMENTS / BILLING INFORMATION		Please submit invoices to APInvoice.US@woodplc.com and include the following information : (1) Project #: 2015100113.0002B.WECK (2) PO #: N/A (3) Org: 3151 (4) GL: 573000
<p>1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.</p> <p>2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.</p> <p>3) Preserve any extra volume of each sample for dissolved metals to archive.</p> <p>4) SPIKE level at the following amounts: Copper = 10 ug/L</p> <p>5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.</p> <p>+ 4 boxes 250-mL filter towers 1 box 500-mL filter towers</p>		





Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

STANDARD

2B10049

Page 2 Of 3

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

CLIENT NAME:				PROJECT:		ANALYSES REQUESTED												SPECIAL HANDLING																			
Wood Environment & Infrastructure Solutions, Inc.				SIYB IWHC Pause Pilot Study (Port of San Diego)		<div style="display: flex;"><div style="writing-mode: vertical-rl; transform: rotate(180deg);">Dissolved Copper<sup>2+</sup> Method EPA 1640 MDL 0.0038 µg/L, RL = 0.01</div><table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div>																														<input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package	
ADDRESS:				PHONE: 858-300-4324														Charges will apply for weekends/holidays		Method of Shipment:																	
9177 Sky Park Ct. San Diego, CA 92123				FAX: 858-300-4301																																	
PROJECT MANAGER				SAMPLER																																	
Marisa Swiderski				Marisa Swiderski (MS) / Kate Buckley (KB)																																	
ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.													COMMENTS																		
	02/09/22	9:30	seawater	C-12-W12		1	X																														
	02/09/22	9:00	seawater	C-13-W12		1	X																														
	02/09/22	9:10	seawater	C-REF-1-W12		1	X																														
	02/09/22	8:55	seawater	C-REF-2-W12		1	X																														
	02/09/22	8:35	DI	FB-W12		1	X																														
	02/09/22	8:45	DI	N3-ER-W12		1	X																														
	02/09/22	11:35	seawater	E-14-W12		1	X											extra vol. analyze sample MS/MSD																			
	02/09/22	11:45	seawater	E-14-Dup-W12		1	X																														
	02/09/22	10:55	seawater	E-15-W12		1	X																														
	02/09/22	10:15	seawater	E-16-W12		1	X																														
	02/09/22	10:45	seawater	E-17-W12		1	X																														

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 02/10/2022 0900	RECEIVED BY <i>Hector Sanchez</i>	SAMPLE CONDITION: Actual Temperature: 4.4°  Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab  T0234	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Hector Sanchez</i>	DATE / TIME 2-10-22/1100	RECEIVED BY <i>Jamison</i> 02/10/22 1100		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

SPECIAL REQUIREMENTS / BILLING INFORMATION		Please submit invoices to APInvoice.US@woodplc.com and include the following information : 1) Project #: 2015100113.0002B.WECK (2) PO #: N/A (3) Org: 3151 (4) GL: 573000
1) LAB ACTION: PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle. 2) Dissolved metals were field filtered using 0.45 um bottletop filt. system. 3) Preserve any extra volume of each sample for dissolved metals to archive. 4) SPIKE level at the following amounts: Copper = 10 ug/L 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.		

+ 4 boxes 250-ml filter-towers  
1 box 500-ml filter-towers

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ [www.wecklabs.com](http://www.wecklabs.com)

## CHAIN OF CUSTODY RECORD

## STANDARD

2 B10049

Page 3 Of 3

[illegible]

RELINQUISHED BY <i>Marin Swidericki</i>	DATE / TIME <i>02/10/2022 0900</i>	RECEIVED BY <i>Hector Sanchez</i>	<b>SAMPLE CONDITION:</b> Actual Temperature: <i>4.4°C</i> Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab  <i>70234</i>	<b>SAMPLE TYPE CODE:</b> AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Hector Sanchez</i>	DATE / TIME <i>2-10-22/1100</i>	RECEIVED BY <i>Jane Doe 02/10/22 1100</i>		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO<sub>3</sub>) in bottle.
  - 2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.
  - 3) Preserve any extra volume of each sample for dissolved metals to archive.
  - 4) SPIKE level at the following amounts: Copper = 10 ug/L
  - 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.
- + 4 boxes 250-  
filter  
1 box 500-  
filter

+ 4 boxes 250-mL  
filter towers  
1 box 500-mL  
filter towers

Please submit invoices to [APIInvoice.US@woodplc.com](mailto:APIInvoice.US@woodplc.com) and include the following information :

- 1) Project #: 2015100113.0002B.WECK  
(2) PO #: N/A  
(3) Org: 3151  
(4) GL: 573000

## **WEEK 12 REANALYSES ANALYTICAL RESULTS**

**Work Orders:** 2B10049

**Project:** SIYB IWHC Pause Pilot (Port of San Diego)

**Attn:** Marisa Swiderski

**Client:** Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Report Date:** 4/29/2022

**Received Date:** 2/10/2022

**Turnaround Time:** Normal

**Phones:** (858) 300-4324

**Fax:** (858) 278-5300

**P.O. #:**

**Billing Code:**

EPA-UCMR #CA00211 • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 2/10/22 with the Chain-of-Custody document. The samples were received in good condition, at 4.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

**Reviewed by:**



Chris Samatmanakit  
Project Manager



**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/29/2022 11:10

**Project Manager:** Marisa Swiderski

## Case Narrative

This is a Supplement to the Certificate of Analysis previously issued 2/23/22 for the above referenced Project to report copformation analysis result.

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
FB-W12	Marisa Swiderski/Kate Buckley	2B10049-16	Water	02/09/22 08:35	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

04/29/2022 11:10

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: FB-W12  
2B10049-16RE1 (Water)

Sampled: 02/09/22 8:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640				<b>Instr:</b> ICPMS03			
<b>Batch ID:</b> W2D1775	<b>Preparation:</b> EPA 1640#Preconcentration			<b>Prepared:</b> 04/25/22 09:40	<b>Analyst:</b> ALN		
Copper, Dissolved	ND	0.0038	0.010	ug/l	1	04/27/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/29/2022 11:10

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2D1775 - EPA 1640</b>											
<b>Blank (W2D1775-BLK1)</b>					<b>Prepared: 04/25/22 Analyzed: 04/27/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2D1775-BS1)</b>					<b>Prepared: 04/25/22 Analyzed: 04/27/22</b>						
Copper, Dissolved	9.29	0.0038	0.010	ug/l	10.0		93	70-130			
<b>Matrix Spike (W2D1775-MS1)</b>					<b>Source: 2A26038-18RE1 Prepared: 04/25/22 Analyzed: 04/27/22</b>						
Copper, Dissolved	9.27	0.0038	0.010	ug/l	10.0	0.0741	92	70-130			
<b>Matrix Spike Dup (W2D1775-MSD1)</b>					<b>Source: 2A26038-18RE1 Prepared: 04/25/22 Analyzed: 04/27/22</b>						
Copper, Dissolved	9.32	0.0038	0.010	ug/l	10.0	0.0741	92	70-130	0.5	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/29/2022 11:10

**Project Manager:** Marisa Swiderski

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

## **WEEK 13 ANALYTICAL RESULTS**

Work Orders: 2B15091

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 2/28/2022

Received Date: 2/15/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #: C015102187

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 2/15/22 with the Chain-of-Custody document. The samples were received in good condition, at 4.6 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
02/28/2022 18:12

**Project Manager:** Marisa Swiderski

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W13	Marisa Swiderski/Rolf Schottle	2B15091-01	Sea Water	02/14/22 12:05	
C-2-W13	Marisa Swiderski/Rolf Schottle	2B15091-02	Sea Water	02/14/22 12:10	
C-3-W13	Marisa Swiderski/Rolf Schottle	2B15091-03	Sea Water	02/14/22 12:10	
C-4-W13	Marisa Swiderski/Rolf Schottle	2B15091-04	Sea Water	02/14/22 11:10	
C-5-W13	Marisa Swiderski/Rolf Schottle	2B15091-05	Sea Water	02/14/22 11:40	
C-6-W13	Marisa Swiderski/Rolf Schottle	2B15091-06	Sea Water	02/14/22 10:40	
C-7-W13	Marisa Swiderski/Rolf Schottle	2B15091-07	Sea Water	02/14/22 11:15	
C-8-W13	Marisa Swiderski/Rolf Schottle	2B15091-08	Sea Water	02/14/22 10:50	
C-9-W13	Marisa Swiderski/Rolf Schottle	2B15091-09	Sea Water	02/14/22 10:40	
C-10-W13	Marisa Swiderski/Rolf Schottle	2B15091-10	Sea Water	02/14/22 10:20	
C-11-W13	Marisa Swiderski/Rolf Schottle	2B15091-11	Sea Water	02/14/22 10:30	
C-12-W13	Marisa Swiderski/Rolf Schottle	2B15091-12	Sea Water	02/14/22 10:10	
C-13-W13	Marisa Swiderski/Rolf Schottle	2B15091-13	Sea Water	02/14/22 10:00	
C-13-Dup-W13	Marisa Swiderski/Rolf Schottle	2B15091-14	Sea Water	02/14/22 10:10	
C-REF-1-W13	Marisa Swiderski/Rolf Schottle	2B15091-15	Sea Water	02/14/22 10:00	
C-REF-2-W13	Marisa Swiderski/Rolf Schottle	2B15091-16	Sea Water	02/14/22 09:50	
FB-W13	Marisa Swiderski/Rolf Schottle	2B15091-17	Water	02/14/22 09:45	
N8-ER-W13	Marisa Swiderski/Rolf Schottle	2B15091-18	Water	02/14/22 09:55	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/28/2022 18:12

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W13  
2B15091-01 (Sea Water)

Sampled: 02/14/22 12:05 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1753	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.2	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

Sample: C-2-W13  
2B15091-02 (Sea Water)

Sampled: 02/14/22 12:10 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1753	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.1	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

Sample: C-3-W13  
2B15091-03 (Sea Water)

Sampled: 02/14/22 12:10 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1753	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.5	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

Sample: C-4-W13  
2B15091-04 (Sea Water)

Sampled: 02/14/22 11:10 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1753	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.5	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

Sample: C-5-W13  
2B15091-05 (Sea Water)

Sampled: 02/14/22 11:40 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1753	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.6	0.0038	0.010	ug/l	1	02/26/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/28/2022 18:12

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-6-W13 Sampled: 02/14/22 10:40 by Marisa Swiderski/Rolf Schottle

2B15091-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **9.1** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: C-7-W13 Sampled: 02/14/22 11:15 by Marisa Swiderski/Rolf Schottle

2B15091-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **9.2** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: C-8-W13 Sampled: 02/14/22 10:50 by Marisa Swiderski/Rolf Schottle

2B15091-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **9.8** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: C-9-W13 Sampled: 02/14/22 10:40 by Marisa Swiderski/Rolf Schottle

2B15091-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **9.4** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: C-10-W13 Sampled: 02/14/22 10:20 by Marisa Swiderski/Rolf Schottle

2B15091-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **8.3** 0.0038 0.010 ug/l 1 02/26/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/28/2022 18:12

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-11-W13 Sampled: 02/14/22 10:30 by Marisa Swiderski/Rolf Schottle

2B15091-11 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **8.5** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: C-12-W13 Sampled: 02/14/22 10:10 by Marisa Swiderski/Rolf Schottle

2B15091-12 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **6.0** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: C-13-W13 Sampled: 02/14/22 10:00 by Marisa Swiderski/Rolf Schottle

2B15091-13 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **3.6** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: C-13-Dup-W13 Sampled: 02/14/22 10:10 by Marisa Swiderski/Rolf Schottle

2B15091-14 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **4.1** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: C-REF-1-W13 Sampled: 02/14/22 10:00 by Marisa Swiderski/Rolf Schottle

2B15091-15 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **0.94** 0.0038 0.010 ug/l 1 02/26/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/28/2022 18:12

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-REF-2-W13 Sampled: 02/14/22 9:50 by Marisa Swiderski/Rolf Schottle

2B15091-16 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **0.85** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: FB-W13 Sampled: 02/14/22 9:45 by Marisa Swiderski/Rolf Schottle

2B15091-17 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **0.028** 0.0038 0.010 ug/l 1 02/26/22

## Sample Results

(Continued)

Sample: N8-ER-W13 Sampled: 02/14/22 9:55 by Marisa Swiderski/Rolf Schottle

2B15091-18 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2B1753

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 02/25/22 16:53

**Analyst:** ALN

**Copper, Dissolved** ..... **0.055** 0.0038 0.010 ug/l 1 02/26/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

02/28/2022 18:12

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2B1753 - EPA 1640</b>											
<b>Blank (W2B1753-BLK1)</b>					<b>Prepared &amp; Analyzed: 02/25/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1753-BS1)</b>					<b>Prepared &amp; Analyzed: 02/25/22</b>						
Copper, Dissolved	9.12	0.0038	0.010	ug/l	10.0		91	70-130			
<b>Matrix Spike (W2B1753-MS1)</b>					<b>Prepared &amp; Analyzed: 02/25/22</b>						
Copper, Dissolved	18.2	0.0038	0.010	ug/l	10.0	9.22	90	70-130			
<b>Matrix Spike (W2B1753-MS2)</b>					<b>Prepared &amp; Analyzed: 02/25/22</b>						
Copper, Dissolved	12.5	0.0038	0.010	ug/l	10.0	3.62	89	70-130			
<b>Matrix Spike Dup (W2B1753-MSD1)</b>					<b>Prepared &amp; Analyzed: 02/25/22</b>						
Copper, Dissolved	17.5	0.0038	0.010	ug/l	10.0	9.22	83	70-130	4	30	
<b>Matrix Spike Dup (W2B1753-MSD2)</b>					<b>Prepared &amp; Analyzed: 02/25/22</b>						
Copper, Dissolved	12.3	0.0038	0.010	ug/l	10.0	3.62	87	70-130	2	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
02/28/2022 18:12

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

STANDARD

2B15091

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Page 1 Of 2

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.				PROJECT: SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED										SPECIAL HANDLING		
ADDRESS: 9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a> <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>		Dissolved Copper <sup>1,2</sup> EPA 1631 MDL 0.0038 µg/L, RL= 0.01 µg/L										<input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package		
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Rolf Schottle (RS)												Charges will apply for weekends/holidays		
ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.											Method of Shipment:	
														COMMENTS				
	02/14/22	12:05	seawater	C-1-W13		1	X											
	02/14/22	12:10	seawater	C-2-W13		1	X											
	02/14/22	11:40	seawater	C-3-W13		1	X											
	02/14/22	11:10	seawater	C-4-W13		1	X											
	02/14/22	11:40	seawater	C-5-W13		1	X											
	02/14/22	10:40	seawater	C-6-W13		1	X											
	02/14/22	11:15	seawater	C-7-W13		1	X											
	02/14/22	10:50	seawater	C-8-W13		1	X											
	02/14/22	10:40	seawater	C-9-W13		1	X											
	02/14/22	10:20	seawater	C-10-W13		1	X											
	02/14/22	10:30	seawater	C-11-W13		1	X											
RELINQUISHED BY <i>Kate Buckley</i>				DATE / TIME 2/15/22 11:15		RECEIVED BY <i>Magaly</i> 2-15-22 / 11:15				SAMPLE CONDITION: Actual Temperature: 46°C				SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix				
RELINQUISHED BY <i>Magaly</i>				DATE / TIME 2-15-22 / 13:49		RECEIVED BY <i>[Signature]</i> 2/15/22 / 1349				Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab				8 / N Y / N Y / N Y / N				
RELINQUISHED BY <i>[Signature]</i>				DATE / TIME /		RECEIVED BY				T-0254								
SPECIAL REQUIREMENTS / BILLING INFORMATION																		
1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.																		
2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.																		
3) Preserve any extra volume of each sample for dissolved metals to archive.																		
4) SPIKE level at the following amounts: Copper = 10 ug/L.																		
5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.																		
Please submit invoices to <a href="mailto:APInvoice.US@woodplc.com">APInvoice.US@woodplc.com</a> and include the following information : 1) Project #: 2015100113.0002B.WECK 2) <del>PO #</del> <b>N/A</b> PO#: C015102187 3) Org: 3151 4) GL: 573000																		



(4) GL: 573000

## **WEEK 14 ANALYTICAL RESULTS**

Work Orders: 2B22072

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 3/15/2022

Received Date: 2/22/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #: C015102187

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 2/22/22 with the Chain-of-Custody document. The samples were received in good condition, at 2.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:11

**Project Manager:** Marisa Swiderski

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W14	Marisa Swiderski/Kate Buckley	2B22072-01	Sea Water	02/21/22 11:05	
C-2-W14	Marisa Swiderski/Kate Buckley	2B22072-02	Sea Water	02/21/22 11:50	
C-3-W14	Marisa Swiderski/Kate Buckley	2B22072-03	Sea Water	02/21/22 11:10	
C-4-W14	Marisa Swiderski/Kate Buckley	2B22072-04	Sea Water	02/21/22 10:20	
C-5-W14	Marisa Swiderski/Kate Buckley	2B22072-05	Sea Water	02/21/22 10:55	
C-6-W14	Marisa Swiderski/Kate Buckley	2B22072-06	Sea Water	02/21/22 09:45	
C-7-W14	Marisa Swiderski/Kate Buckley	2B22072-07	Sea Water	02/21/22 10:35	
C-8-W14	Marisa Swiderski/Kate Buckley	2B22072-08	Sea Water	02/21/22 10:25	
C-9-W14	Marisa Swiderski/Kate Buckley	2B22072-09	Sea Water	02/21/22 10:15	
C-10-W14	Marisa Swiderski/Kate Buckley	2B22072-10	Sea Water	02/21/22 09:50	
C-11-W14	Marisa Swiderski/Kate Buckley	2B22072-11	Sea Water	02/21/22 10:00	
C-12-W14	Marisa Swiderski/Kate Buckley	2B22072-12	Sea Water	02/21/22 09:25	
C-13-W14	Marisa Swiderski/Kate Buckley	2B22072-13	Sea Water	02/21/22 09:10	
C-REF-1-W14	Marisa Swiderski/Kate Buckley	2B22072-14	Sea Water	02/21/22 09:05	
C-REF-2-W14	Marisa Swiderski/Kate Buckley	2B22072-15	Sea Water	02/21/22 08:50	
FB-W14	Marisa Swiderski/Kate Buckley	2B22072-16	Water	02/21/22 08:45	
N3-ER-W14	Marisa Swiderski/Kate Buckley	2B22072-17	Water	02/21/22 08:55	
E-14-W14	Marisa Swiderski/Kate Buckley	2B22072-18	Sea Water	02/21/22 11:35	
E-15-W14	Marisa Swiderski/Kate Buckley	2B22072-19	Sea Water	02/21/22 10:50	
E-15-Dup-W14	Marisa Swiderski/Kate Buckley	2B22072-20	Sea Water	02/21/22 11:00	
E-16-W14	Marisa Swiderski/Kate Buckley	2B22072-21	Sea Water	02/21/22 10:10	
E-17-W14	Marisa Swiderski/Kate Buckley	2B22072-22	Sea Water	02/21/22 10:45	
E-18-W14	Marisa Swiderski/Kate Buckley	2B22072-23	Sea Water	02/21/22 09:30	
E-19-W14	Marisa Swiderski/Kate Buckley	2B22072-24	Sea Water	02/21/22 09:40	
E-20-W14	Marisa Swiderski/Kate Buckley	2B22072-25	Sea Water	02/21/22 09:20	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:11

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W14  
2B22072-01 (Sea Water)

Sampled: 02/21/22 11:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
<b>Copper, Dissolved</b>	8.6	0.0038	0.010	ug/l	1	02/26/22	<b>Analyst:</b> ALN

## Sample Results

Sample: C-2-W14  
2B22072-02 (Sea Water)

Sampled: 02/21/22 11:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
<b>Copper, Dissolved</b>	9.2	0.0038	0.010	ug/l	1	02/26/22	<b>Analyst:</b> ALN

## Sample Results

Sample: C-3-W14  
2B22072-03 (Sea Water)

Sampled: 02/21/22 11:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
<b>Copper, Dissolved</b>	9.9	0.0038	0.010	ug/l	1	02/26/22	<b>Analyst:</b> ALN

## Sample Results

Sample: C-4-W14  
2B22072-04 (Sea Water)

Sampled: 02/21/22 10:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
<b>Copper, Dissolved</b>	5.1	0.0038	0.010	ug/l	1	02/26/22	<b>Analyst:</b> ALN

## Sample Results

Sample: C-5-W14  
2B22072-05 (Sea Water)

Sampled: 02/21/22 10:55 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
<b>Copper, Dissolved</b>	7.3	0.0038	0.010	ug/l	1	02/26/22	<b>Analyst:</b> ALN

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:11

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-6-W14 Sampled: 02/21/22 9:45 by Marisa Swiderski/Kate Buckley

2B22072-06 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/25/22 16:56			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	7.2	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: C-7-W14 Sampled: 02/21/22 10:35 by Marisa Swiderski/Kate Buckley

2B22072-07 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/25/22 16:56			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	5.7	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: C-8-W14 Sampled: 02/21/22 10:25 by Marisa Swiderski/Kate Buckley

2B22072-08 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/25/22 16:56			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	7.7	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: C-9-W14 Sampled: 02/21/22 10:15 by Marisa Swiderski/Kate Buckley

2B22072-09 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/25/22 16:56			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	6.8	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: C-10-W14 Sampled: 02/21/22 9:50 by Marisa Swiderski/Kate Buckley

2B22072-10 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Instr:</b> ICPMS03				
			<b>Prepared:</b> 02/25/22 16:56			<b>Analyst:</b> ALN	
<b>Copper, Dissolved</b>	7.7	0.0038	0.010	ug/l	1	02/26/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:11

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-11-W14  
2B22072-11 (Sea Water)

Sampled: 02/21/22 10:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.3	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: C-12-W14  
2B22072-12 (Sea Water)

Sampled: 02/21/22 9:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.1	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: C-13-W14  
2B22072-13 (Sea Water)

Sampled: 02/21/22 9:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.6	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: C-REF-1-W14  
2B22072-14 (Sea Water)

Sampled: 02/21/22 9:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.1	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: C-REF-2-W14  
2B22072-15 (Sea Water)

Sampled: 02/21/22 8:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.3	0.0038	0.010	ug/l	1	02/26/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:11

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: FB-W14 Sampled: 02/21/22 8:45 by Marisa Swiderski/Kate Buckley

2B22072-16 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	<b>0.033</b>	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: N3-ER-W14 Sampled: 02/21/22 8:55 by Marisa Swiderski/Kate Buckley

2B22072-17 (Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	<b>0.054</b>	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: E-14-W14 Sampled: 02/21/22 11:35 by Marisa Swiderski/Kate Buckley

2B22072-18 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	<b>9.1</b>	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: E-15-W14 Sampled: 02/21/22 10:50 by Marisa Swiderski/Kate Buckley

2B22072-19 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	<b>9.2</b>	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: E-15-Dup-W14 Sampled: 02/21/22 11:00 by Marisa Swiderski/Kate Buckley

2B22072-20 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1754	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	<b>9.2</b>	0.0038	0.010	ug/l	1	02/26/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:11

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: E-16-W14  
2B22072-21 (Sea Water)

Sampled: 02/21/22 10:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1755	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.2	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: E-17-W14  
2B22072-22 (Sea Water)

Sampled: 02/21/22 10:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1755	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.5	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: E-18-W14  
2B22072-23 (Sea Water)

Sampled: 02/21/22 9:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1755	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.8	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: E-19-W14  
2B22072-24 (Sea Water)

Sampled: 02/21/22 9:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1755	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.9	0.0038	0.010	ug/l	1	02/26/22	

## Sample Results

(Continued)

Sample: E-20-W14  
2B22072-25 (Sea Water)

Sampled: 02/21/22 9:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2B1755	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	5.2	0.0038	0.010	ug/l	1	02/26/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

03/15/2022 17:11

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	RPD Limit	Qualifier
<b>Batch: W2B1754 - EPA 1640</b>											
<b>Blank (W2B1754-BLK1)</b>					<b>Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2B1754-BS1)</b>					<b>Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	9.26	0.0038	0.010	ug/l	10.0		93	70-130			
<b>Matrix Spike (W2B1754-MS1)</b>					<b>Source: 2B22072-01 Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	17.6	0.0038	0.010	ug/l	10.0	8.57	91	70-130			
<b>Matrix Spike (W2B1754-MS2)</b>					<b>Source: 2B22072-19 Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	18.2	0.0038	0.010	ug/l	10.0	9.15	90	70-130			
<b>Matrix Spike Dup (W2B1754-MSD1)</b>					<b>Source: 2B22072-01 Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	17.8	0.0038	0.010	ug/l	10.0	8.57	92	70-130	1	30	
<b>Matrix Spike Dup (W2B1754-MSD2)</b>					<b>Source: 2B22072-19 Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	18.2	0.0038	0.010	ug/l	10.0	9.15	90	70-130	0.03	30	
<b>Batch: W2B1755 - EPA 1640</b>											
<b>Blank (W2B1755-BLK1)</b>					<b>Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	0.00975	0.0038	0.010	ug/l							J
<b>LCS (W2B1755-BS1)</b>					<b>Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	9.60	0.0038	0.010	ug/l	10.0		96	70-130			
<b>Matrix Spike (W2B1755-MS1)</b>					<b>Source: 2B22072-21 Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	18.8	0.0038	0.010	ug/l	10.0	9.21	95	70-130			
<b>Matrix Spike Dup (W2B1755-MSD1)</b>					<b>Source: 2B22072-21 Prepared: 02/25/22 Analyzed: 02/26/22</b>						
Copper, Dissolved	19.2	0.0038	0.010	ug/l	10.0	9.21	100	70-130	2	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

03/15/2022 17:11

**Project Manager:** Marisa Swiderski

## Notes and Definitions

Item	Definition
J	Estimated conc. detected <MRL and >MDL.
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

2B22072

STANDARD

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Page 1 Of 3

CLIENT NAME:

Wood Environment & Infrastructure Solutions, Inc.

ADDRESS:

9177 Sky Park Ct.  
San Diego, CA 92123

PROJECT:

SIYB IWHC Pause Pilot Study  
(Port of San Diego)

PHONE: 858-300-4324

FAX: 858-300-4301

EMAIL: [marisa.swiderski@woodplc.com](mailto:marisa.swiderski@woodplc.com)

[barry.snyder@woodplc.com](mailto:barry.snyder@woodplc.com)

PROJECT MANAGER

Marisa Swiderski

SAMPLER

Marisa Swiderski (MS) / Kate Buckley (KB)

## ANALYSES REQUESTED

## SPECIAL HANDLING

Same Day Rush 150%

24 Hour Rush 100%

48-72 Hour Rush 75%

4 - 5 Day Rush 30%

Rush Extractions 50%

10 Business Days

QA/QC Data Package

Charges will apply for weekends/holidays

Method of Shipment:

COMMENTS

ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.
	02/21/22	11:05	seawater	C-1-W14	1
	02/21/22	11:50	seawater	C-2-W14	1
	02/21/22	11:10	seawater	C-3-W14	1
	02/21/22	10:20	seawater	C-4-W14	1
	02/21/22	10:55	seawater	C-5-W14	1
	02/21/22	9:45	seawater	C-6-W14	1
	02/21/22	10:35	seawater	C-7-W14	1
	02/21/22	10:25	seawater	C-8-W14	1
	02/21/22	10:15	seawater	C-9-W14	1
	02/21/22	9:50	seawater	C-10-W14	1
	02/21/22	10:00	seawater	C-11-W14	1

Dissolved Copper<sup>1,2</sup>  
Method EPA 1640 MDL 0.0038 µg/L, RL= 0.01

RELINQUISHED BY

Marisa Swiderski

DATE / TIME

02/22/2022 0900

RECEIVED BY

Heck Sanchez

RELINQUISHED BY

Heck Sanchez

DATE / TIME

2-22-22/1100

RECEIVED BY

Janet 2/22/22 1100

RELINQUISHED BY

DATE / TIME

RECEIVED BY

## SAMPLE CONDITION:

Actual Temperature:

23°C

Received On Ice

Preserved

Evidence Seals Present

Container Intact

Preserved at Lab

## SAMPLE TYPE CODE:

AQ=Aqueous

NA= Non Aqueous

SL = Sludge

DW = Drinking Water

WW = Waste Water

RW = Rain Water

GW = Ground Water

SO = Soil

SW = Solid Waste

OL = Oil

OT = Other Matrix

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- 1) **LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.
- 2) Dissolved metals were field filtered using 0.45 µm bottle top filt. system.
- 3) Preserve any extra volume of each sample for dissolved metals to archive.
- 4) SPIKE level at the following amounts: Copper = 10 µg/L
- 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.

Please submit invoices to [APInvoice.US@woodplc.com](mailto:APInvoice.US@woodplc.com) and include the following information :

1) Project #: 2015100113.0002B.WECK

2) ~~PO #~~ PO#: C015102187

3) Org: 3151

4) GL: 573000





Weck Laboratories, Inc.

Analytical Laboratory Services - Since 1964

# CHAIN OF CUSTODY RECORD

2B22072

STANDARD

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

Page 2 Of 3

CLIENT NAME:				PROJECT:		ANALYSES REQUESTED										SPECIAL HANDLING																					
Wood Environment & Infrastructure Solutions, Inc.				SIYB IWHC Pause Pilot Study (Port of San Diego)		<div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Dissolved Copper<sup>12</sup> Method EPA 1640 MDL 0.0038 µg/L, RL= 0.01</div> <table border="1" style="width: 100%; height: 100%;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> </div>																														<input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package	
ADDRESS:				PHONE: 858-300-4324												FAX: 858-300-4301		EMAIL: marisa.swiderski@woodplc.com		EMAIL: barry.snyder@woodplc.com		Charges will apply for weekends/holidays		Method of Shipment:													
9177 Sky Park Ct. San Diego, CA 92123				PROJECT MANAGER		SAMPLER		Marisa Swiderski (MS) / Kate Buckley (KB)		COMMENTS																											
ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.																															
	02/21/22	9:25	seawater	C-12-W14		1	X																														
	02/21/22	9:10	seawater	C-13-W14		1	X																														
	02/21/22	9:05	seawater	C-REF-1-W14		1	X																														
	02/21/22	8:50	seawater	C-REF-2-W14		1	X																														
	02/21/22	8:45	DI	FB-W14		1	X																														
	02/21/22	8:55	DI	N3-ER-W14		1	X																														
	02/21/22	11:35	seawater	E-14-W14		1	X																														
	02/21/22	10:50	seawater	E-15-W14		1	X																														
	02/21/22	11:00	seawater	E-15-Dup-W14		1	X																														
	02/21/22	10:10	seawater	E-16-W14		1	X																														
	02/21/22	10:45	seawater	E-17-W14		1	X																														

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 02/22/2022 0900	RECEIVED BY <i>Heidi Sanchez</i>	SAMPLE CONDITION: Actual Temperature: 23C Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab <i>TOC</i>	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>Heidi Sanchez</i>	DATE / TIME 2-22-22	RECEIVED BY <i>Sanchez</i> 2/22/22 1100		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

## SPECIAL REQUIREMENTS / BILLING INFORMATION

- LAB ACTION:** PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.
- Dissolved metals were field filtered using 0.45 um bottle top filt. system.
- Preserve any extra volume of each sample for dissolved metals to archive.
- SPIKE level at the following amounts: Copper = 10 ug/L
- WECK will contact Wood PM within 24 hours if any sample anomalies are found.

Please submit invoices to [APIInvoice.US@woodplc.com](mailto:APIInvoice.US@woodplc.com) and include the following information :

- Project #: 2015100113.0002B.WECK
- PO #: N/A
- Org: 3151
- GL: 573000

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ [www.wecklabs.com](http://www.wecklabs.com)

## CHAIN OF CUSTODY RECORD

2B22072

## STANDARD

Page 3 Of 3

[illegible]

## **WEEK 15 ANALYTICAL RESULTS**

Work Orders: 2C02082

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 3/15/2022

Received Date: 3/2/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A •  
SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 3/02/22 with the Chain-of-Custody document. The samples were received in good condition, at 4.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:21

**Project Manager:** Marisa Swiderski

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W15	Marisa Swiderski/Rolf Schottle	2C02082-01	Sea Water	03/01/22 10:40	
C-2-W15	Marisa Swiderski/Rolf Schottle	2C02082-02	Sea Water	03/01/22 10:55	
C-3-W15	Marisa Swiderski/Rolf Schottle	2C02082-03	Sea Water	03/01/22 10:30	
C-4-W15	Marisa Swiderski/Rolf Schottle	2C02082-04	Sea Water	03/01/22 09:50	
C-4-Dup-W15	Marisa Swiderski/Rolf Schottle	2C02082-05	Sea Water	03/01/22 10:00	
C-5-W15	Marisa Swiderski/Rolf Schottle	2C02082-06	Sea Water	03/01/22 10:10	
C-6-W15	Marisa Swiderski/Rolf Schottle	2C02082-07	Sea Water	03/01/22 09:25	
C-7-W15	Marisa Swiderski/Rolf Schottle	2C02082-08	Sea Water	03/01/22 10:05	
C-8-W15	Marisa Swiderski/Rolf Schottle	2C02082-09	Sea Water	03/01/22 09:55	
C-9-W15	Marisa Swiderski/Rolf Schottle	2C02082-10	Sea Water	03/01/22 09:45	
C-10-W15	Marisa Swiderski/Rolf Schottle	2C02082-11	Sea Water	03/01/22 09:30	
C-11-W15	Marisa Swiderski/Rolf Schottle	2C02082-12	Sea Water	03/01/22 09:35	
C-12-W15	Marisa Swiderski/Rolf Schottle	2C02082-13	Sea Water	03/01/22 09:20	
C-13-W15	Marisa Swiderski/Rolf Schottle	2C02082-14	Sea Water	03/01/22 09:00	
C-REF-1-W15	Marisa Swiderski/Rolf Schottle	2C02082-15	Sea Water	03/01/22 09:05	
C-REF-2-W15	Marisa Swiderski/Rolf Schottle	2C02082-16	Sea Water	03/01/22 08:50	
FB-W15	Marisa Swiderski/Rolf Schottle	2C02082-17	Water	03/01/22 08:40	
N8-ER-W15	Marisa Swiderski/Rolf Schottle	2C02082-18	Water	03/01/22 08:45	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

03/15/2022 17:21

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W15  
2C02082-01 (Sea Water)

Sampled: 03/01/22 10:40 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 03/11/22 14:40							<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.6	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

Sample: C-2-W15  
2C02082-02 (Sea Water)

Sampled: 03/01/22 10:55 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 03/11/22 14:40							<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.3	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

Sample: C-3-W15  
2C02082-03 (Sea Water)

Sampled: 03/01/22 10:30 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 03/11/22 14:40							<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.2	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

Sample: C-4-W15  
2C02082-04 (Sea Water)

Sampled: 03/01/22 9:50 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 03/11/22 14:40							<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.7	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

Sample: C-4-Dup-W15  
2C02082-05 (Sea Water)

Sampled: 03/01/22 10:00 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						
<b>Instr:</b> ICPMS03							
<b>Prepared:</b> 03/11/22 14:40							<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.5	0.0038	0.010	ug/l	1	03/14/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:21

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-5-W15  
2C02082-06 (Sea Water)

Sampled: 03/01/22 10:10 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.6	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

(Continued)

Sample: C-6-W15  
2C02082-07 (Sea Water)

Sampled: 03/01/22 9:25 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.4	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

(Continued)

Sample: C-7-W15  
2C02082-08 (Sea Water)

Sampled: 03/01/22 10:05 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.7	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

(Continued)

Sample: C-8-W15  
2C02082-09 (Sea Water)

Sampled: 03/01/22 9:55 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.8	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

(Continued)

Sample: C-9-W15  
2C02082-10 (Sea Water)

Sampled: 03/01/22 9:45 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0876	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.8	0.0038	0.010	ug/l	1	03/14/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
03/15/2022 17:21

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-10-W15  
2C02082-11 (Sea Water)

Sampled: 03/01/22 9:30 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0877	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.4	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

(Continued)

Sample: C-11-W15  
2C02082-12 (Sea Water)

Sampled: 03/01/22 9:35 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0877	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.2	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

(Continued)

Sample: C-12-W15  
2C02082-13 (Sea Water)

Sampled: 03/01/22 9:20 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0877	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.0	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

(Continued)

Sample: C-13-W15  
2C02082-14 (Sea Water)

Sampled: 03/01/22 9:00 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0877	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.9	0.0038	0.010	ug/l	1	03/14/22	

## Sample Results

(Continued)

Sample: C-REF-1-W15  
2C02082-15 (Sea Water)

Sampled: 03/01/22 9:05 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C0877	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	0.26	0.0038	0.010	ug/l	1	03/14/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

03/15/2022 17:21

**Project Manager:** Marisa Swiderski

(Continued)

## Sample Results

Sample: C-REF-2-W15  
2C02082-16 (Sea Water) Sampled: 03/01/22 8:50 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2C0877

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 03/11/22 14:41

**Analyst:** ALN

**Copper, Dissolved** ..... **0.30** 0.0038 0.010 ug/l 1 03/14/22

## Sample Results

(Continued)

Sample: FB-W15  
2C02082-17 (Water) Sampled: 03/01/22 8:40 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2C0877

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 03/11/22 14:41

**Analyst:** ALN

**Copper, Dissolved** ..... **0.012** 0.0038 0.010 ug/l 1 03/14/22

## Sample Results

(Continued)

Sample: N8-ER-W15  
2C02082-18 (Water) Sampled: 03/01/22 8:45 by Marisa Swiderski/Rolf Schottle

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
---------	--------	-----	-----	-------	-----	----------	-----------

### Metals - Low Level by 1600 Series Methods

**Method:** EPA 1640

**Instr:** ICPMS03

**Batch ID:** W2C0877

**Preparation:** EPA 1640#Preconcentration

**Prepared:** 03/11/22 14:41

**Analyst:** ALN

**Copper, Dissolved** ..... **ND** 0.0038 0.010 ug/l 1 03/14/22

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

03/15/2022 17:21

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2C0876 - EPA 1640</b>											
<b>Blank (W2C0876-BLK1)</b>					<b>Prepared: 03/11/22 Analyzed: 03/14/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2C0876-BS1)</b>					<b>Prepared: 03/11/22 Analyzed: 03/14/22</b>						
Copper, Dissolved	9.40	0.0038	0.010	ug/l	10.0		94	70-130			
<b>Matrix Spike (W2C0876-MS1)</b>					<b>Prepared: 03/11/22 Analyzed: 03/14/22</b>						
Copper, Dissolved	17.1	0.0038	0.010	ug/l	10.0	7.68	94	70-130			
<b>Matrix Spike Dup (W2C0876-MSD1)</b>					<b>Prepared: 03/11/22 Analyzed: 03/14/22</b>						
Copper, Dissolved	16.3	0.0038	0.010	ug/l	10.0	7.68	87	70-130	4	30	
<b>Batch: W2C0877 - EPA 1640</b>											
<b>Blank (W2C0877-BLK1)</b>					<b>Prepared: 03/11/22 Analyzed: 03/14/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2C0877-BS1)</b>					<b>Prepared: 03/11/22 Analyzed: 03/14/22</b>						
Copper, Dissolved	9.21	0.0038	0.010	ug/l	10.0		92	70-130			
<b>Matrix Spike (W2C0877-MS1)</b>					<b>Prepared: 03/11/22 Analyzed: 03/14/22</b>						
Copper, Dissolved	15.8	0.0038	0.010	ug/l	10.0	6.45	93	70-130			
<b>Matrix Spike Dup (W2C0877-MSD1)</b>					<b>Prepared: 03/11/22 Analyzed: 03/14/22</b>						
Copper, Dissolved	16.0	0.0038	0.010	ug/l	10.0	6.45	96	70-130	2	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
03/15/2022 17:21

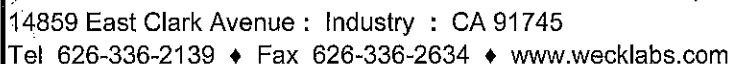
## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



**Analytical Laboratory Services - Since 1964**

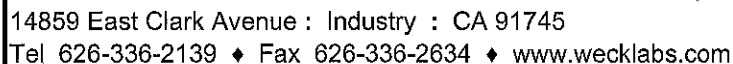
## STANDARD

202082

Page 1 Of 2

CLIENT NAME:			PROJECT:			ANALYSES REQUESTED										SPECIAL HANDLING				
Wood Environment & Infrastructure Solutions, Inc.			SIYB IWHC Pause Pilot Study (Port of San Diego)			Dissolved Copper <sup>1,2</sup> EPA 1640 MDL 0.0038 µg/L RL= 0.01 µg/L										<input type="checkbox"/> Same Day Rush 150%				
ADDRESS:			PHONE: 858-300-4324													<input type="checkbox"/> 24 Hour Rush 100%				
9177 Sky Park Ct. San Diego, CA 92123			FAX: 858-300-4301													<input type="checkbox"/> 48-72 Hour Rush 75%				
PROJECT MANAGER			SAMPLER													<input type="checkbox"/> 4 - 5 Day Rush 30%				
Marisa Swiderski			Marisa Swiderski (MS) / Rolf Schottle (RS)													<input type="checkbox"/> Rush Extractions 50%				
																<input checked="" type="checkbox"/> 10 Business Days				
																<input type="checkbox"/> QA/QC Data Package				
																Charges will apply for weekends/holidays				
																Method of Shipment:				
ID# (For Lab Use Only)			DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.											COMMENTS		
	03/01/22	10:40	seawater	C-1-W15	1	X														
	03/01/22	10:55	seawater	C-2-W15	1	X														
	03/01/22	10:30	seawater	C-3-W15	1	X														
	03/01/22	9:50	seawater	C-4-W15	1	X											extra vol. analyze sample MS/MSD			
	03/01/22	10:00	seawater	C-4-Dup-W15	1	X														
	03/01/22	10:10	seawater	C-5-W15	1	X														
	03/01/22	9:25	seawater	C-6-W15	1	X														
	03/01/22	10:05	seawater	C-7-W15	1	X														
	03/01/22	9:55	seawater	C-8-W15	1	X														
	03/01/22	9:45	seawater	C-9-W15	1	X														
	03/01/22	9:30	seawater	C-10-W15	1	X														
RELINQUISHED BY			DATE / TIME			RECEIVED BY			SAMPLE CONDITION:			SAMPLE TYPE CODE:								
[Signature]			3/2/2022 0915			[Signature]			Actual Temperature: 4.2C			AQ=Aqueous								
RELINQUISHED BY			DATE / TIME			RECEIVED BY			Received On Ice			NA= Non Aqueous								
[Signature]			3/2/22 11:20			[Signature]			Preserved			SL = Sludge								
RELINQUISHED BY			DATE / TIME			RECEIVED BY			Evidence Seals Present			DW = Drinking Water								
[Signature]						[Signature]			Container Intact			WW = Waste Water								
									Preserved at Lab			RW = Rain Water								
												GW = Ground Water								
												SO = Soil								
												SW = Solid Waste								
												OL = Oil								
												OT = Other Matrix								
SPECIAL REQUIREMENTS / BILLING INFORMATION													Please submit invoices to APInvoice.US@woodplc.com and include the following information :							
1) LAB ACTION: PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.													(1) Project #: 2015100113.0002A.WECK							
2) Dissolved metals were field filtered using 0.45 um bottletop filt. system.													(2) PO #: C015102008							
3) Preserve any extra volume of each sample for dissolved metals to archive.													(3) Org: 3151							
4) SPIKE level at the following amounts: Copper = 10 ug/L													(4) GL: 573000							
5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.																				





**Analytical Laboratory Services - Since 1964**

## STANDARD

2C02082

Page 2 Of 2

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.				PROJECT: SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED								SPECIAL HANDLING <input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package																					
ADDRESS: 9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: marisa.swiderski@woodplc.com barry.snyder@woodplc.com																															
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Rolf Schottle (RS)										Charges will apply for weekends/holidays																					
ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	Dissolved Copper <sup>1,2</sup> EPA 1640 MDL 0.0038 µg/L RL= 0.01 µg/L											Method of Shipment:																		
	03/01/22	9:35	seawater	C-11-W15	1	X											COMMENTS																		
	03/01/22	9:20	seawater	C-12-W15	1	X																													
	03/01/22	9:00	seawater	C-13-W15	1	X																													
	03/01/22	9:05	seawater	C-REF-1-W15	1	X																													
	03/01/22	8:50	seawater	C-REF-2-W15	1	X																													
	03/01/22	8:40	DI	FB-W15	1	X																													
	03/01/22	8:45	DI	N8-ER-W15	1	X																													
RELINQUISHED BY <i>[Signature]</i>				DATE / TIME 3/2/2022 0915		RECEIVED BY <i>[Signature]</i>				SAMPLE CONDITION: Actual Temperature: 7-082 4.2 c Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab				SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix																					
RELINQUISHED BY <i>[Signature]</i>				DATE / TIME 3/2/22 1122		RECEIVED BY <i>[Signature]</i> 03-02-22 1122																													
RELINQUISHED BY				DATE / TIME		RECEIVED BY																													
SPECIAL REQUIREMENTS / BILLING INFORMATION																		Please submit invoices to APInvoice.US@woodplc.com and include the following information :																	
1) LAB ACTION: PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.																		(1) Project #: 2015100113.0002A.WECK																	
2) Dissolved metals were field filtered using 0.45 um bottletop filt. system.																		(2) PO #: C015102008																	
3) Preserve any extra volume of each sample for dissolved metals to archive.																		(3) Org: 3151																	
4) SPIKE level at the following amounts: Copper = 10 ug/L																		(4) GL: 573000																	
5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.																																			

## **WEEK 16 ANALYTICAL RESULTS**

Work Orders: 2C09095

Project: SIYB IWHC Pause Pilot (Port of San Diego)

Attn: Marisa Swiderski

Client: Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

Report Date: 4/05/2022

Received Date: 3/9/2022

Turnaround Time: Normal

Phones: (858) 300-4324

Fax: (858) 278-5300

P.O. #:

Billing Code:

EPA-UCMR #CA00211 • Guam-EPA #17-008R • LACSD #10143 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

Dear Marisa Swiderski,

Enclosed are the results of analyses for samples received 3/09/22 with the Chain-of-Custody document. The samples were received in good condition, at 5.5 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Reviewed by:



Chris Samatmanakit  
Project Manager



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/05/2022 15:54

**Project Manager:** Marisa Swiderski

## Case Narrative

Report includes only re-analysis results. -CSS 4/5/22

## Sample Summary

Sample Name	Sampled By	Lab ID	Matrix	Sampled	Qualifiers
C-1-W16	Marisa Swiderski/Kate Buckley	2C09095-01	Sea Water	03/08/22 11:35	
C-2-W16	Marisa Swiderski/Kate Buckley	2C09095-02	Sea Water	03/08/22 12:00	
C-3-W16	Marisa Swiderski/Kate Buckley	2C09095-03	Sea Water	03/08/22 11:20	
C-4-W16	Marisa Swiderski/Kate Buckley	2C09095-04	Sea Water	03/08/22 10:45	
C-5-W16	Marisa Swiderski/Kate Buckley	2C09095-05	Sea Water	03/08/22 11:25	
C-6-W14	Marisa Swiderski/Kate Buckley	2C09095-06	Sea Water	03/08/22 10:05	
C-7-W16	Marisa Swiderski/Kate Buckley	2C09095-07	Sea Water	03/08/22 11:05	
C-8-W16	Marisa Swiderski/Kate Buckley	2C09095-08	Sea Water	03/08/22 10:55	
C-9-W16	Marisa Swiderski/Kate Buckley	2C09095-09	Sea Water	03/08/22 10:47	
C-10-W16	Marisa Swiderski/Kate Buckley	2C09095-10	Sea Water	03/08/22 10:30	
C-11-W16	Marisa Swiderski/Kate Buckley	2C09095-11	Sea Water	03/08/22 10:40	
C-12-W16	Marisa Swiderski/Kate Buckley	2C09095-12	Sea Water	03/08/22 09:40	
C-13-W16	Marisa Swiderski/Kate Buckley	2C09095-13	Sea Water	03/08/22 09:20	
C-REF-1-W16	Marisa Swiderski/Kate Buckley	2C09095-14	Sea Water	03/08/22 09:25	
C-REF-2-W16	Marisa Swiderski/Kate Buckley	2C09095-15	Sea Water	03/08/22 09:10	
FB-W16	Marisa Swiderski/Kate Buckley	2C09095-16	Water	03/08/22 09:00	
N3-ER-W16	Marisa Swiderski/Kate Buckley	2C09095-17	Water	03/08/22 09:05	
E-14-W16	Marisa Swiderski/Kate Buckley	2C09095-18	Sea Water	03/08/22 11:50	
E-15-W16	Marisa Swiderski/Kate Buckley	2C09095-19	Sea Water	03/08/22 11:10	
E-16-W16	Marisa Swiderski/Kate Buckley	2C09095-20	Sea Water	03/08/22 10:30	
E-17-W16	Marisa Swiderski/Kate Buckley	2C09095-21	Sea Water	03/08/22 11:15	
E-18-W16	Marisa Swiderski/Kate Buckley	2C09095-22	Sea Water	03/08/22 09:50	
E-19-W16	Marisa Swiderski/Kate Buckley	2C09095-23	Sea Water	03/08/22 10:10	
E-19-DUP-W16	Marisa Swiderski/Kate Buckley	2C09095-24	Sea Water	03/08/22 10:20	
E-20-W16	Marisa Swiderski/Kate Buckley	2C09095-25	Sea Water	03/08/22 09:50	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/05/2022 15:54

**Project Manager:** Marisa Swiderski

## Sample Results

Sample: C-1-W16  
2C09095-01RE1 (Sea Water) Sampled: 03/08/22 11:35 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.0	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

Sample: C-2-W16  
2C09095-02RE1 (Sea Water) Sampled: 03/08/22 12:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.5	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

Sample: C-3-W16  
2C09095-03RE1 (Sea Water) Sampled: 03/08/22 11:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.1	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

Sample: C-4-W16  
2C09095-04RE1 (Sea Water) Sampled: 03/08/22 10:45 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.3	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

Sample: C-5-W16  
2C09095-05RE1 (Sea Water) Sampled: 03/08/22 11:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	9.0	0.0038	0.010	ug/l	1	04/01/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

04/05/2022 15:54

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: C-6-W14 Sampled: 03/08/22 10:05 by Marisa Swiderski/Kate Buckley

2C09095-06RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 04/01/22 16:20		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	7.6	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

(Continued)

Sample: C-7-W16 Sampled: 03/08/22 11:05 by Marisa Swiderski/Kate Buckley

2C09095-07RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 04/01/22 16:20		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	7.4	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

(Continued)

Sample: C-8-W16 Sampled: 03/08/22 10:55 by Marisa Swiderski/Kate Buckley

2C09095-08RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 04/01/22 16:20		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	7.9	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

(Continued)

Sample: C-9-W16 Sampled: 03/08/22 10:47 by Marisa Swiderski/Kate Buckley

2C09095-09RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 04/01/22 16:20		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	6.7	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

(Continued)

Sample: C-10-W16 Sampled: 03/08/22 10:30 by Marisa Swiderski/Kate Buckley

2C09095-10RE1 (Sea Water)

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640			<b>Instr:</b> ICPMS03				
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 04/01/22 16:20		<b>Analyst:</b> ALN		
<b>Copper, Dissolved</b>	7.0	0.0038	0.010	ug/l	1	04/01/22	



Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**

04/05/2022 15:54

**Project Manager:** Marisa Swiderski

(Continued)

## Sample Results

Sample: C-11-W16  
2C09095-11RE1 (Sea Water)

Sampled: 03/08/22 10:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	5.9	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

(Continued)

Sample: C-12-W16  
2C09095-12RE1 (Sea Water)

Sampled: 03/08/22 9:40 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	6.7	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

(Continued)

Sample: C-13-W16  
2C09095-13RE1 (Sea Water)

Sampled: 03/08/22 9:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	5.6	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

(Continued)

Sample: C-REF-1-W16  
2C09095-14RE1 (Sea Water)

Sampled: 03/08/22 9:25 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	1.9	0.0038	0.010	ug/l	1	04/01/22	

## Sample Results

(Continued)

Sample: C-REF-2-W16  
2C09095-15RE1 (Sea Water)

Sampled: 03/08/22 9:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2D0065	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	2.1	0.0038	0.010	ug/l	1	04/02/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/05/2022 15:54

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: FB-W16  
2C09095-16 (Water)

Sampled: 03/08/22 9:00 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 03/17/22 16:04		<b>Analyst:</b> ALN		
Copper, Dissolved	ND	0.0038	0.010	ug/l	1	03/22/22	

## Sample Results

(Continued)

Sample: N3-ER-W16  
2C09095-17 (Water)

Sampled: 03/08/22 9:05 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 03/17/22 16:04		<b>Analyst:</b> ALN		
Copper, Dissolved	ND	0.0038	0.010	ug/l	1	03/22/22	

## Sample Results

(Continued)

Sample: E-14-W16  
2C09095-18 (Sea Water)

Sampled: 03/08/22 11:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 03/17/22 16:04		<b>Analyst:</b> ALN		
Copper, Dissolved	7.5	0.0038	0.010	ug/l	1	03/22/22	

## Sample Results

(Continued)

Sample: E-15-W16  
2C09095-19 (Sea Water)

Sampled: 03/08/22 11:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 03/17/22 16:04		<b>Analyst:</b> ALN		
Copper, Dissolved	6.6	0.0038	0.010	ug/l	1	03/22/22	

## Sample Results

(Continued)

Sample: E-16-W16  
2C09095-20 (Sea Water)

Sampled: 03/08/22 10:30 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640		<b>Instr:</b> ICPMS03					
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration		<b>Prepared:</b> 03/17/22 16:04		<b>Analyst:</b> ALN		
Copper, Dissolved	7.5	0.0038	0.010	ug/l	1	03/22/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/05/2022 15:54

**Project Manager:** Marisa Swiderski

## Sample Results

(Continued)

Sample: E-17-W16  
2C09095-21 (Sea Water)

Sampled: 03/08/22 11:15 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	8.0	0.0038	0.010	ug/l	1	03/22/22	

## Sample Results

(Continued)

Sample: E-18-W16  
2C09095-22 (Sea Water)

Sampled: 03/08/22 9:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.2	0.0038	0.010	ug/l	1	03/22/22	

## Sample Results

(Continued)

Sample: E-19-W16  
2C09095-23 (Sea Water)

Sampled: 03/08/22 10:10 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.7	0.0038	0.010	ug/l	1	03/22/22	

## Sample Results

(Continued)

Sample: E-19-DUP-W16  
2C09095-24 (Sea Water)

Sampled: 03/08/22 10:20 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.7	0.0038	0.010	ug/l	1	03/22/22	

## Sample Results

(Continued)

Sample: E-20-W16  
2C09095-25 (Sea Water)

Sampled: 03/08/22 9:50 by Marisa Swiderski/Kate Buckley

Analyte	Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
<b>Metals - Low Level by 1600 Series Methods</b>							
<b>Method:</b> EPA 1640							
<b>Batch ID:</b> W2C1293	<b>Preparation:</b> EPA 1640#Preconcentration						<b>Analyst:</b> ALN
<b>Copper, Dissolved</b>	7.1	0.0038	0.010	ug/l	1	03/22/22	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Reported:**  
04/05/2022 15:54

**Project Manager:** Marisa Swiderski

## Quality Control Results

Metals - Low Level by 1600 Series Methods

Analyte	Result	MDL	MRL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qualifier
<b>Batch: W2C1293 - EPA 1640</b>											
<b>Blank (W2C1293-BLK1)</b>					<b>Prepared: 03/17/22 Analyzed: 03/22/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2C1293-BS1)</b>					<b>Prepared: 03/17/22 Analyzed: 03/22/22</b>						
Copper, Dissolved	9.70	0.0038	0.010	ug/l	10.0		97	70-130			
<b>Matrix Spike (W2C1293-MS1)</b>					<b>Source: 2C09095-19 Prepared: 03/17/22 Analyzed: 03/22/22</b>						
Copper, Dissolved	16.6	0.0038	0.010	ug/l	10.0	6.61	100	70-130			
<b>Matrix Spike Dup (W2C1293-MSD1)</b>					<b>Source: 2C09095-19 Prepared: 03/17/22 Analyzed: 03/22/22</b>						
Copper, Dissolved	16.5	0.0038	0.010	ug/l	10.0	6.61	99	70-130	0.7	30	
<b>Batch: W2D0065 - EPA 1640</b>											
<b>Blank (W2D0065-BLK1)</b>					<b>Prepared &amp; Analyzed: 04/01/22</b>						
Copper, Dissolved	ND	0.0038	0.010	ug/l							
<b>LCS (W2D0065-BS1)</b>					<b>Prepared &amp; Analyzed: 04/01/22</b>						
Copper, Dissolved	9.80	0.0038	0.010	ug/l	10.0		98	70-130			
<b>Matrix Spike (W2D0065-MS1)</b>					<b>Source: 2C09095-14RE1 Prepared &amp; Analyzed: 04/01/22</b>						
Copper, Dissolved	11.9	0.0038	0.010	ug/l	10.0	1.92	100	70-130			
<b>Matrix Spike (W2D0065-MS2)</b>					<b>Source: 2C09095-15RE1 Prepared &amp; Analyzed: 04/01/22</b>						
Copper, Dissolved	11.8	0.0038	0.010	ug/l	10.0	2.08	97	70-130			
<b>Matrix Spike Dup (W2D0065-MSD1)</b>					<b>Source: 2C09095-14RE1 Prepared &amp; Analyzed: 04/01/22</b>						
Copper, Dissolved	11.8	0.0038	0.010	ug/l	10.0	1.92	99	70-130	1	30	
<b>Matrix Spike Dup (W2D0065-MSD2)</b>					<b>Source: 2C09095-15RE1 Prepared &amp; Analyzed: 04/01/22</b>						
Copper, Dissolved	12.1	0.0038	0.010	ug/l	10.0	2.08	100	70-130	2	30	

Wood - San Diego  
9177 Sky Park Court, Ste A  
San Diego, CA 92123

**Project Number:** SIYB IWHC Pause Pilot (Port of San Diego)

**Project Manager:** Marisa Swiderski

**Reported:**  
04/05/2022 15:54

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
Dil	Dilution
MDL	Method Detection Limit
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.



Weck Laboratories, Inc.

Analytical Laboratory Services • Since 1964

# CHAIN OF CUSTODY RECORD

STANDARD

14859 East Clark Avenue : Industry : CA 91745

Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ www.wecklabs.com

2009095  
Page 1 Of 3

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.				PROJECT: SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED										SPECIAL HANDLING																			
ADDRESS: 9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a> <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>		<div style="display: flex;"><div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Dissolved Copper<sup>1,2</sup> Method EPA 1640 MDL 0.0038 ug/L, RL = 0.01</div><table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table></div>																												<div><input type="checkbox"/> Same Day Rush 150% <input type="checkbox"/> 24 Hour Rush 100% <input type="checkbox"/> 48-72 Hour Rush 75% <input type="checkbox"/> 4 - 5 Day Rush 30% <input type="checkbox"/> Rush Extractions 50% <input checked="" type="checkbox"/> 10 Business Days <input type="checkbox"/> QA/QC Data Package</div>	
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Kate Buckley (KB)		Charges will apply for weekends/holidays		Method of Shipment:																											
ID# (For Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION		# OF CONT.											COMMENTS																		
	03/08/22	11:35	seawater	C-1-W16		1	X																												
	03/08/22	12:00	seawater	C-2-W16		1	X																												
	03/08/22	11:20	seawater	C-3-W16		1	X																												
	03/08/22	10:45	seawater	C-4-W16		1	X																												
	03/08/22	11:25	seawater	C-5-W16		1	X																												
	03/08/22	10:05	seawater	C-6-W16		1	X																												
	03/08/22	11:05	seawater	C-7-W16		1	X																												
	03/08/22	10:55	seawater	C-8-W16		1	X																												
	03/08/22	10:47	seawater	C-9-W16		1	X																												
	03/08/22	10:30	seawater	C-10-W16		1	X																												
	03/08/22	10:40	seawater	C-11-W16		1	X																												

RELINQUISHED BY <i>Marisa Swiderski</i>	DATE / TIME 03/09/2022 0920	RECEIVED BY <i>[Signature]</i>	SAMPLE CONDITION: Actual Temperature: <i>5.5C</i> <i>7-0624</i> Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab	SAMPLE TYPE CODE: AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>[Signature]</i>	DATE / TIME 3/9/22 1220	RECEIVED BY <i>[Signature]</i>		
RELINQUISHED BY	DATE / TIME	RECEIVED BY		

SPECIAL REQUIREMENTS / BILLING INFORMATION		Please submit invoices to <a href="mailto:APIInvoice.US@woodplc.com">APIInvoice.US@woodplc.com</a> and include the following information : (1) Project #: 2015100113.0002A.WECK (2) PO #: C015102008 (3) Org: 3151 (4) GL: 573000
1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle. 2) Dissolved metals were field filtered using 0.45 um bottletop filt. system. 3) Preserve any extra volume of each sample for dissolved metals to archive. 4) SPIKE level at the following amounts: Copper = 10 ug/L 5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.		



## CHAIN OF CUSTODY RECORD

14859 East Clark Avenue : Industry : CA 91745  
Tel 626-336-2139 ♦ Fax 626-336-2634 ♦ [www.wecklabs.com](http://www.wecklabs.com)

## STANDARD

2009095

Page 2 Of 3

CLIENT NAME: Wood Environment & Infrastructure Solutions, Inc.				PROJECT: SIYB IWHC Pause Pilot Study (Port of San Diego)		ANALYSES REQUESTED								SPECIAL HANDLING		
ADDRESS: 9177 Sky Park Ct. San Diego, CA 92123				PHONE: 858-300-4324 FAX: 858-300-4301 EMAIL: <a href="mailto:marisa.swiderski@woodplc.com">marisa.swiderski@woodplc.com</a> <a href="mailto:barry.snyder@woodplc.com">barry.snyder@woodplc.com</a>		<div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: small;">Dissolved Copper<sup>1,2</sup> Method EPA 1640 MDL 0.0038 µg/L RL= 0.01</div>										<input type="checkbox"/> Same Day Rush 150%
															<input type="checkbox"/> 24 Hour Rush 100%	
															<input type="checkbox"/> 48-72 Hour Rush 75%	
															<input type="checkbox"/> 4 - 5 Day Rush 30%	
															<input type="checkbox"/> Rush Extractions 50%	
															<input checked="" type="checkbox"/> 10 Business Days	
PROJECT MANAGER Marisa Swiderski				SAMPLER Marisa Swiderski (MS) / Kate Buckley (KB)											<input type="checkbox"/> QA/QC Data Package	
Charges will apply for weekends/holidays																
Method of Shipment:																
COMMENTS																
ID# (For lab Use Only)	DATE SAMPLED	TIME SAMPLED	SMPL TYPE	SAMPLE IDENTIFICATION/SITE LOCATION	# OF CONT.	X										
	03/08/22	9:40	seawater	C-12-W16	1	X										
	03/08/22	9:20	seawater	C-13-W16	1	X										
	03/08/22	9:25	seawater	C-REF-1-W16	1	X										
	03/08/22	9:10	seawater	C-REF-2-W16	1	X										
	03/08/22	9:00	DI	FB-W16	1	X										
	03/08/22	9:05	DI	N3-ER-W16	1	X										
	03/08/22	11:50	seawater	E-14-W16	1	X										
	03/08/22	11:10	seawater	E-15-W16	1	X										
	03/08/22	10:30	seawater	E-16-W16	1	X										
	03/08/22	11:15	seawater	E-17-W16	1	X										
	03/08/22	9:50	seawater	E-18-W16	1	X										

RELINQUISHED BY <i>Marie Swidenth</i>	DATE / TIME 03/09/2022 0920	RECEIVED BY <i>[Signature]</i>	<b>SAMPLE CONDITION:</b> Actual Temperature: <i>5.5C</i> <i>T-0234</i> Received On Ice Preserved Evidence Seals Present Container Intact Preserved at Lab	O / N Y / N Y / N Y / N Y / N	<b>SAMPLE TYPE CODE:</b> AQ=Aqueous NA= Non Aqueous SL = Sludge DW = Drinking Water WW = Waste Water RW = Rain Water GW = Ground Water SO = Soil SW = Solid Waste OL = Oil OT = Other Matrix
RELINQUISHED BY <i>[Signature]</i>	DATE / TIME <i>1220</i> 03/09/22	RECEIVED BY <i>[Signature]</i> 3/9/22 1220			
RELINQUISHED BY	DATE / TIME	RECEIVED BY			

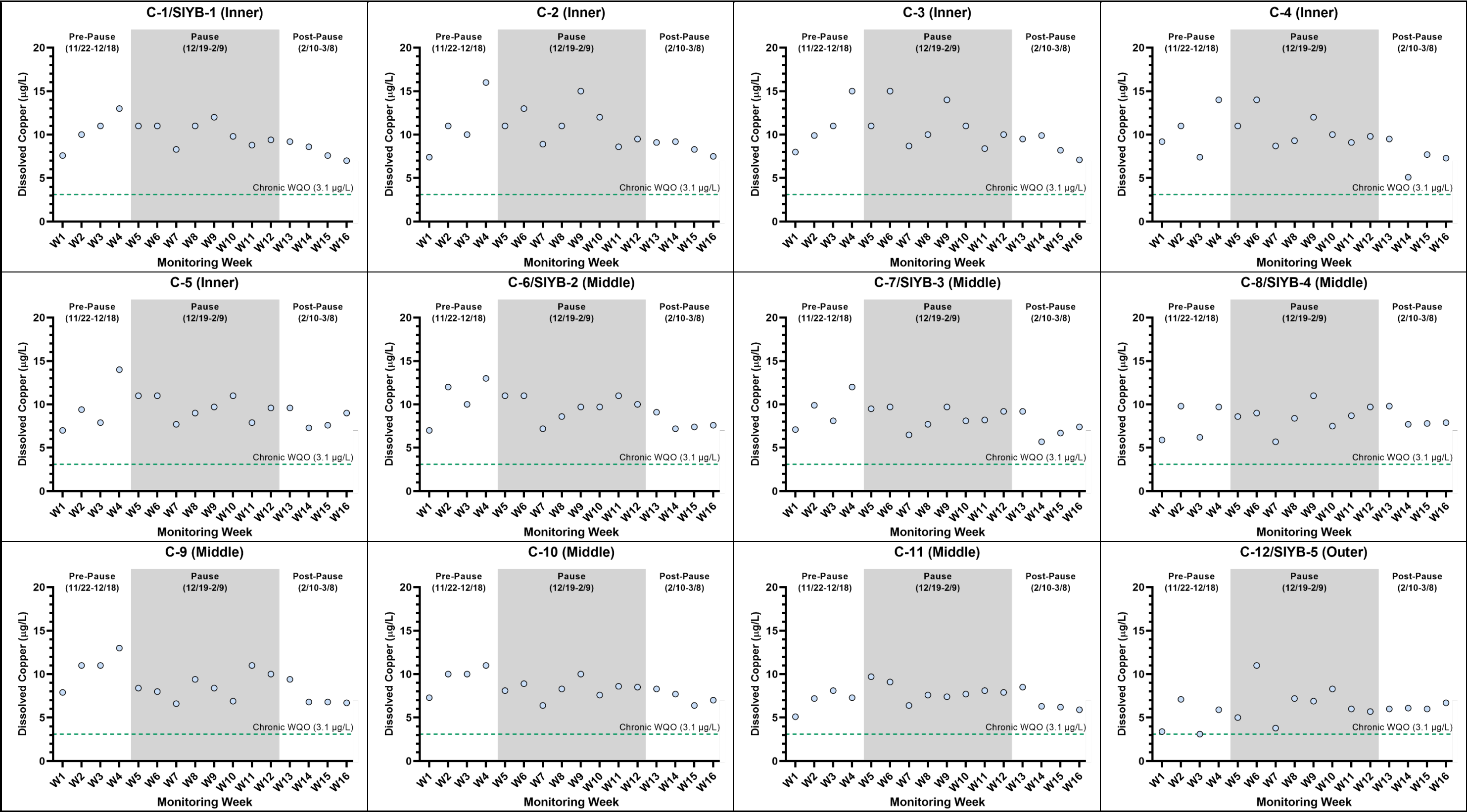
<p><b>SPECIAL REQUIREMENTS / BILLING INFORMATION</b></p> <p>1) <b>LAB ACTION:</b> PRESERVE Cu samples IMMEDIATELY. HDPE metals bottles have NO acid (HNO3) in bottle.</p> <p>2) Dissolved metals were field filtered using 0.45 um bottle top filt. system.</p> <p>3) Preserve any extra volume of each sample for dissolved metals to archive.</p> <p>4) SPIKE level at the following amounts: Copper = 10 ug/L</p> <p>5) WECK will contact Wood PM within 24 hours if any sample anomalies are found.</p>	<p>Please submit invoices to <a href="mailto:APIInvoice.US@woodplc.com">APIInvoice.US@woodplc.com</a> and include the following information :</p> <p>(1) Project #: 2015100113.0002A.WECK</p> <p>(2) PO #: C015102008</p> <p>(3) Org: 3151</p> <p>(4) GL: 573000</p>
---	--

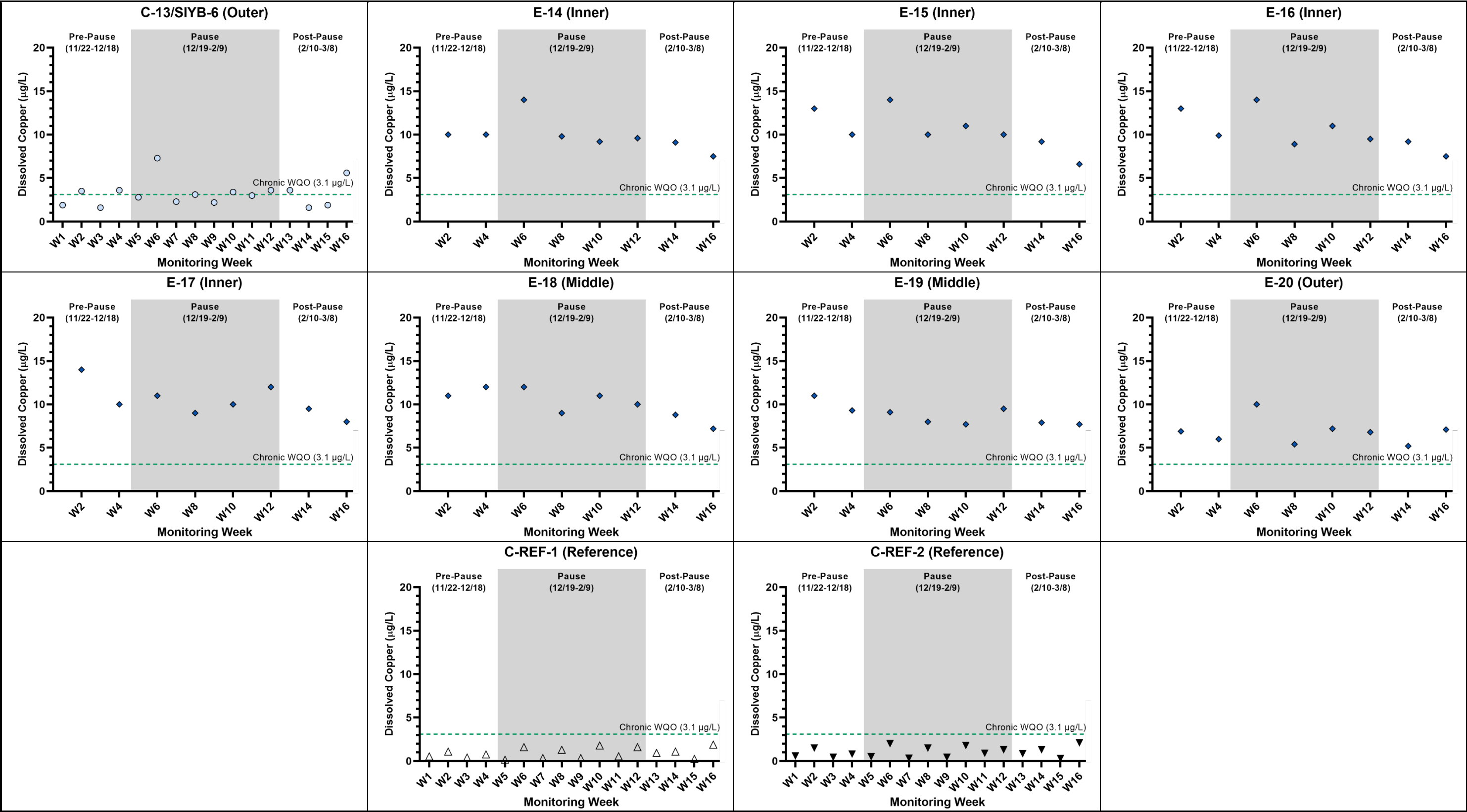
[illegible]

## **APPENDIX D**

### **SUPPLEMENTAL DATA ANALYSIS AND GRAPHS**

**In-Water Hull Cleaning Pause Water Quality Monitoring  
Dissolved Copper Concentrations by Monitoring Station Over Time**







## **In-Water Hull Cleaning Pause Water Quality Monitoring Dissolved Copper Concentrations by Monitoring Week**

