Demersal Fisheries Response to the 2004 Channel Deepening Project in San Diego Bay

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Abstract

This study examined the effects of a clamshell dredge project in San Diego Bay on demersal fish, epibenthic invertebrates, and benthic infaunal invertebrates. The project occurred between October 2004 and April 2005. Demersal fish and epibenthic invertebrates were sampled with an otter trawl and benthic infauna were sampled with a VanVeen grab sampler. Sampling was performed prior to the dredge project in September 2004 and following the dredge project in September 2005, 2006, and 2007. Data were analyzed with regards to biomass, density, species richness, community similarity and infaunal community indices. Results indicated that demersal fish took between 14 and 22 months to recover. Benthic infauna recovered within 5 months relative to density and biomass but examination of community indices indicated that full recovery may have taken 17 to 24 months. Epibenthic invertebrates recovered within 29 to 35 months in terms of density and biomass. However, the epibenthic invertebrate community composition was still changing or had achieved an alternate stable state near the end of the study.

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Demersal Fisheries Response to the 2004 Channel Deepening Project in San Diego Bay

Robert Mooney, Merkel & Associates, Inc.

Introduction

San Diego Bay

San Diego Bay is the largest estuary south of San Francisco Bay along the southern California coastline. The bay forms a long narrow crescent that has only one point of tidal exchange with the Pacific Ocean. The bay's entrance at Point Loma is approximately 1.4 kilometers (km) (0.9 miles [mi]) wide. San Diego Bay is approximately 25 km (15 mi) long and varies from approximately 1 to 4 km (0.6 to 2.5 mi) in width. Although San Diego Bay is often classified into four eco-regions (Allen 1999), for simplicity it can be thought of as consisting of a narrow and deep outer bay (north San Diego Bay) and a wide, shallow inner bay (south San Diego Bay).

The relatively shallow and expansive south San Diego Bay creates a warm saline environment during the summer and fall. This region supports several fish species that are more common in sub-tropical bays and lagoons located further south along the Baja Peninsula and within the Sea of Cortez. The South Bay species group overlaps somewhat with a more open coast fish assemblage inhabiting the North Bay environments. Thus, the potential exists to capture a diverse assemblage of fish and benthic invertebrate species within San Diego Bay.

Purpose

Coastal dredging operations are arguably one of the greatest sources of direct anthropogenic impacts on the benthic community after commercial bottom fishing. Lee (1976) estimated that the annual dredge volume in the United States likely exceeds 306 million cubic meters (m^3) (400 million cubic yards [yd^3]). In 2008, the United States Army Corps of Engineers (USACE) contracted the removal of over 107 million m^3 (140 million yd^3) of sediments across all district offices (USACE 2009).

The effect of dredging on invertebrate communities has been explored in previous studies, with varied results. Harrison (1967) found that infaunal populations returned to pre-dredge levels in six months. Similar rapid recolonization rates have been observed in subsequent studies (May 1973, Stickney and Perlmutter 1975, McCauley et al. 1977, Van Dolah et al. 1984, Guerra-Garcia et al. 2005). Alternately, some studies have indicated that full recovery of benthic organisms can take years or may not occur at all (Flemer et al. 1967, Taylor and Salomon 1968, Kaplan et al. 1974). Ultimately, the level of community disturbance is likely driven by physical parameters such as changes in sediment grain size (Jones and Candy 1981, Newell et al. 1998) as well as the intensity and history of disturbance (McCauley et al. 1977, Hill et al. 1999). It is also likely that the "significance" of a dredge event is dependent upon the level to which the investigators study the community. With advances in monitoring and analysis techniques our ability to differentiate and describe community level changes increases. Thus, while numerical metrics such as density may appear to recover quickly, community based measures such as

diversity may indicate otherwise. Finally, it is important to consider that "recovery" of a community measured as the presence and abundance of species may not tell the whole story. It is possible that communities exist but with lowered reproductive output or impacts of other ecological pathways (McCauley et al. 1977).

There are relatively few relevant studies examining the effects of dredging on demersal fish communities. The most relevant data come from studies of shellfish dredging and general studies of habitat complexity on fishes. Carbines and Cole (2009) concluded that oyster dredging reduced the abundance and diversity of demersal fishes. Generally, researchers have focused on sediment type and form (Stoner et al. 2007), proportion of substrate habitat types such as rock, sand, crevices (Jones 1988) and biological features (Choat and Ayling 1987, Mooney 2001, Shucksmith et al. 2006). While there are numerous studies relating habitat features to fish abundance and diversity, the relationship between dredging and fish communities is generally understood only by extrapolating the effects of dredging on habitat features.

In 2004, the San Diego Unified Port District (Port) and USACE implemented the San Diego Bay Channel Deepening Project (Dredge Project). The Dredge Project consisted of dredging the central navigation channel from the aircraft turning basin to the Coronado Bay Bridge (**Figure 1**). The pre-dredge water depth was -12.5-meters (m) (-41 feet [ft]) mean lower low water (MLLW), and the project target depth was -12.8 m (-42 ft) MLLW with a 0.6 m (2 ft) overdredge allowance. Dredging occurred between October 18, 2004 and April 2, 2005 using a clamshell dredge, and removed approximately 420,505 m^3 (550,000 yd^3) of sediments from the 107-hectare (264-acre) Dredge Project footprint (hereafter referred to as the Study Site).

The Dredge Project afforded an opportunity to study the effects of a dredge event on demersal fish, epibenthic invertebrates, and benthic infauna. The purpose of this report is to present the findings of a monitoring program designed to determine whether or not the Dredge Project significantly altered the distribution of demersal fish, epibenthic invertebrates, and benthic infauna within the Study Site. Specifically, this document addresses the following questions:

1) Did the Dredge Project alter the density or biomass of demersal fish, epibenthic invertebrates, or benthic infauna within the Study Site?

2) Did the Dredge Project alter the community structure of demersal fish, epibenthic invertebrates, or benthic infaunal communities within the Study Site?

3) What were the temporal trends associated with any observed effects on density, biomass, or community structure for demersal fish, epibenthic invertebrates, and benthic infauna?

Figure 1. Aerial view of the project boundary for the 2004 San Diego Bay Channel Deepening Project.

Methods

Study Site

The Study Site followed the central navigation channel within central San Diego Bay, a 107-hectare (264-acre) area extending from the Coronado Bay Bridge to the south and the Aircraft Carrier Turning Basin to the north (**Figure 1**).

Control Site

The Control Site consisted of a 118-hectare (292-acre) area of the navigation channel along the northwestern shoreline of Naval Air Station North Island adjacent to Shelter Island (**Figure 1**). The Control Site was not located immediately adjacent to the Study Site because the Study Site occurs along a narrow section of central San Diego Bay that opens to wider portions of the bay at either end. Instead this portion of north San Diego Bay with similar hydrology was chosen. The hydrology at both the Study Site and Control Site results in bottom shear forces that scour the bottom, and result in substrates with greater sandy fractions relative to adjacent portions of the bay. Previous studies of hydrology, fish communities, substrate analysis, and benthic infauna were used to support the selection of the Control Site as a relevant reference to the Study Site (Chadwick et al. 1997, SCCWRP 1998, Allen 1999).

Fish and Epibenthic Sampling

A BACI (Before, After, Control, Impacted) approach was used to address the questions of this investigation. A single pre-dredge sampling event for demersal fish and epibenthic invertebrates took place in August 2004. Post-dredge sampling occurred in September 2005, 2006, and 2007. Sampling was conducted using a 3.2-m (10-ft) semi-balloon otter trawl with 0.8-centimeter (cm) (0.3-inch [in]) mesh in the body and 0.6-cm (0.2 in) mesh in the cod end. The otter trawl was deployed using a 21-ft (6.4-m) vessel traveling between 1.5 and 2 knots along permanently established 250-m (820 ft) transects. There were 14 replicate transects at both the Study Site and Control Site. Each replicate transect was sampled both day and night during each sampling event. Occasionally, debris items or other factors prevented the completion of the entirety of a given transect. In those cases, the biomass and density data were adjusted accordingly.

Fish and epibenthic invertebrates were sorted and identified in the field whenever possible. The data recorded for fishes captured in each haul included species and individual counts, standard length, and weight. If greater than 100 individuals of a species were caught in a replicate of any gear type, a batch sampling procedure was used. First, the standard length and weight was determined for 30 randomly selected individuals. Then, the batch weight was determined for 100 additional randomly selected individuals. Finally, the batch weight was determined for all of the remaining, uncounted individuals caught in the replicate. The number of uncounted individuals was then estimated using the batch weight of the 100 randomly selected individuals. Epibenthic invertebrates were counted and weighed in batches by species.

All surviving individuals were released following data collection. Occasionally, organisms that were not identified in the field were vouchered and returned to the Merkel & Associates taxonomic laboratory for identification and inclusion into the dataset.

Infaunal Invertebrate, TOC, and Grain Size Sampling

Infaunal invertebrates were sampled within the same BACI framework during the same sampling events as the demersal fish and epibenthic invertebrates. Sampling was performed with a 0.1 m^2 modified VanVeen grab sampler. Fourteen replicate samples were collected at the Control and Study Sites during each sampling event. A quality control procedure ensured that adequate penetration and sample retention was obtained for each grab sample. Only grabs obtaining a minimum penetration of 7 cm (2.8 in) were considered acceptable. If the sample showed signs of being washed out or had obstructions preventing full closure of the sampler, it was discarded. Samples for total organic carbon (TOC) and sediment grain size were collected at each sampling station.

Replicate samples were rinsed through a 1.0-mm sieve. Organisms remaining in the sieve from each sample were placed in leak-proof jars, combined with a 10% formalin-seawater mixture, and transported to the laboratory for identification.

After one week, organisms collected from the benthic grabs were transferred in the laboratory from the 10% formalin-seawater solution into 70% isopropyl alcohol. All individuals in each replicate sample were sorted by phyla. A sorting quality control process was followed as per Bilyard et al. (1987). Twenty percent of previously sorted samples were re-sorted by staff other than the one who originally sorted the sample. The entire sample was mixed and poured into a gridded tray. A 20-percent aliquot was removed and re-sorted. If re-sorting resulted in less than 95 percent sorting efficiency, then the sample in question was completely re-sorted. Any animals found in the quality control process were added to the original sort vials and counted accordingly.

The total wet weight of each phylum was then measured to the nearest 0.0001 gram. Each replicate sample was stored in paraffin-sealed jars of alcohol and sent to various phyla specialists for identification to species or the lowest identifiable taxonomic group. The taxonomic specialists counted the number of individuals and measured the total wet biomass for each identified taxonomic group.

Sediment samples collected for TOC were placed in plastic sample jars and placed in a cooler on board the sample vessel. At the end of the day, samples were taken to the laboratory at Merkel & Associates. At the laboratory, samples were analyzed for TOC using the Walkley-Black method (Walkley and Black 1934) without the addition of phosphoric acid to the sample solution (Tiessen and Moir 1993). A correction factor of 1.33 was applied to the obtained results for compensate for the mean recovery of 76% total organic carbon with this method (Walkley and Black 1934, Schumacher 2002). Data are presented as means per site per year with error bars.

Grain size distribution was completed by wet-sieve standard methods through an ASTM E-11 sieve stack in accordance with ASTM D-1140 protocols. Data are presented as grain-size distribution.

Data Analysis

Species Richness

Comparisons of species richness between the Study Site and the Control Site were obtained by calculating sample-based rarefaction curves (*sensu* Gotelli and Colwell 2001). Rarefaction curves are produced by repeated random sampling of the dataset that contains the individuals that were actually sampled. The process of rarefaction was used to calculate the expected number of species in a collection of *n* individuals drawn at random from the pool of *N* individuals (modified after Simberloff 1978)

Species richness rarefaction curves were calculated using EstimateS (Version 8) for Windows® (Colwell 2006). Expected species accumulation (Mao Tau) values for each sample were calculated in EstimateS. The Mao Tau values were then plotted against the accumulated number of individuals (Gotelli and Colwell 2001) using Statistica 7 for Windows®.

Differences in fish and invertebrate community structure were further investigated by calculating Morisita's Similarity Index by using the numbers of individuals captured for each species (fish and epibenthic invertebrates) or family (infauna) between the Control Site and Study Site during each of the sample periods (Morisita 1959, Krebs 1989). Morisita's Similarity Index values range from 0 to values slightly above 1. In this study, if a value being compared exceeded 1, all values being compared were standardized by the highest value resulting in a possible range of 0-1. Thus, a value of 1 does not necessarily reflect perfect similarity between samples, but does reflect a high level of similarity.

Density and Biomass

Differences in density (individuals/m^2) and biomass (g/m^2) between sites, day/night sampling (fish only), and sampling period (year) were analyzed for the entire catch. Repeated-measures analysis of variance (ANOVA) was used to test for differences among factors and the repeated measures. ANOVA model factors included study site (2 levels; Study Site, Control Site), and for fish sampling, time of day (2 levels; day, night). The repeated measures consisted of sampling periods (year) over which the study occurred. All factors and the repeated measures were analyzed as fixed effects in the ANOVA model. The data were analyzed and plotted using Statistica 7 software for Windows®.

The gear type and time of day factors were included in the ANOVA models for analyses of fish data because they were believed to contribute a significant and explainable portion of the variance in the measured parameters. Their effects were not plotted in figures because these factors did little to explain differences among the study sites. Their inclusion in the study design was intended to maximize the fish catch by including species and individuals occupying different habitats in space and time.

Benthic Invertebrate Community Condition Indices

The benthic condition indices were calculated to determine community condition relative to the disturbance of the Dredge Project. The calculated indices included the Relative Benthic Index (RBI) (Hunt et al. 2001), the Index of Biotic Integrity (IBI) (Thompson and Lowe 2004), and the Benthic Response Index (BRI) (Smith et al. 2001, 2003). The benthic indices were calculated using the metrics and metric formulae found in SCCRWP (2008). The use of multiple indices to determine a site's condition is preferable to the use of any single index (Ranasinghe et al. 2008). Sensitive species identification and tolerance scores were based on those within the species list for Southern California Marine Bays (published by SCCRWP and available at www.sccwrp.org). Wherever possible, the taxonomic data were fit to the SCCRWP species list to ensure that index calculations fit the models with which they were built.

Results

Captured Fish Species

Thirty-three species of fish were captured during the study (**Table 1**). Three of these species are similarly appearing species of gobies (arrow goby, cheekspot goby, and shadow goby) and were grouped as CIQ Gobies for purposes of analysis. Thus, for comparative purposes within this study, the total number of species captured was 31. Of the 31 captured species, 23 and 29 species were captured at the Control Site and the Study Site, respectively (**Table 1**).

Fish species overlap was notable between the sites, with 21 fish species in common. The remaining 10 species not shared between the sites were rare species that accounted for less than 1% of the total catch (**Table 1**).

The three most abundant fish species caught were specklefin midshipman, CIQ Goby, and round stingray at 22%, 18%, and 18%, respectively. The numbers of Round Stingray captured at the Control Site slightly exceeded the numbers of GIQ Goby captured and so the actual species ranks of the Control Site were different from the overall ranking and that observed for the Study Site (**Table 1**).

Fish Density

Fish density did not vary by treatment (Control Site versus Study Site [$F_{(1, 52)} = 3.19$, $P = 0.080$]) when analyzed within the ANOVA model with both the pre- and post-dredge data (**Table A1-1** and (**Figure 2**). Using the same model, there was no statistical interaction between treatment and sampling year ($F_{(3, 156)} = 0.95$, $P = 0.417$) (**Table A1-1** and **Figure 3**). The ANOVA model parameters that were significant included sampling time of day and sampling year. More fish were captured at night than during the day ($F_{(1, 52)} = 12.89$, $P = 0.001$) and there was a significant decline in the capture of fish over the duration of the study ($F_{(1, 156)} = 21.44$, $P < 0.001$) (**Table A1-1**, **Figure A1-1**, and **Figure A1-2**).

Although no statistical trends were noted for the interaction between sampling year and treatment across all sampled years, simple inspection of the trends in fish density show that fewer fish were captured at the Study Site in the sampling event following the Dredging Project (**Figure 3**). In subsequent sampling years, fish densities were similar between the Control Site

Table 1. Fish species captured throughout the duration of the study. Totals represent the total number of individuals of a given species captured throughout the study at Control and Study Sites. Shaded boxes for each species by sampling year combination represent the relative catch for each sampling year by site combination relative total catch across all years for the corresponding site.

		Control Site				Control Site	Study Site				Study Site
Scientific Name	**Common Name**	**2004**	**2005**	**2006**	**2007**	**Total**	**2004**	**2005**	**2006**	**2007**	**Total**
Paralabrax nebulifer	Barred Sand Bass					41					14
Ophidion scrippsae	Basketweave cusk-eel					4					6
Cheilotrema saturnum	Black Croaker					57					186
Myliobatis californica	California Bat Ray					7					6
Gymnura marmorata	California Butterfly Ray					3					2
Menticirrhus undulatus	California Corbina					0					3
Paralichthys californicus	California Halibut					203					152
Synodus lucioceps	California Lizardfish					562					81
Scorpaena guttata	California Scorpionfish					68					4
Symphurus atricauda	California Tonguefish					171					25
Tridentiger trigonocephalus	Chameleon Goby					0					1
*Gobiidae**	CIQ Goby					782					249
Dasyatis brevis	Diamond Stingray					0					1
Pleuronichthys guttulata	Diamond Turbot					15					38
Xystreurys liolepis	Fantail Sole					28					0
Mustelus californicus	Grey Smoothhound					3					2
Heterodontus francisci	Horn Shark					0					2
Pleuronichthys verticalis	Hornyhead Turbot					165					67
Paralabrax clathratus	Kelp Bass					0					4
Porichthys notatus	Plainfin Midshipman					0					1
Seriphus politus	Queenfish					58					24
Urolobatus halleri	Round Stingray					428					562
Rhinobatis productus	Shovelnose Guitarfish					2					3
Porichthys myriaster	Specklefin Midshipman					433					799
Roncador stearnsii	Spotfin Croaker					0					8
Chilara taylori	Spotted Cusk-Eel					4					0
Paralabrax maculatofasciatus	Spotted Sand Bass					21					132
Pleuronichthys ritteri	Spotted Turbot					59					10
Playrhinoides triseriata	Thornback					17					1
Genyonemus lineatus	White Croaker					0					2
Umbrina roncador	Yellowfin Croaker					6					76

Legend 0% | 1-25% | 26-50% | 51-75% | 76-100%

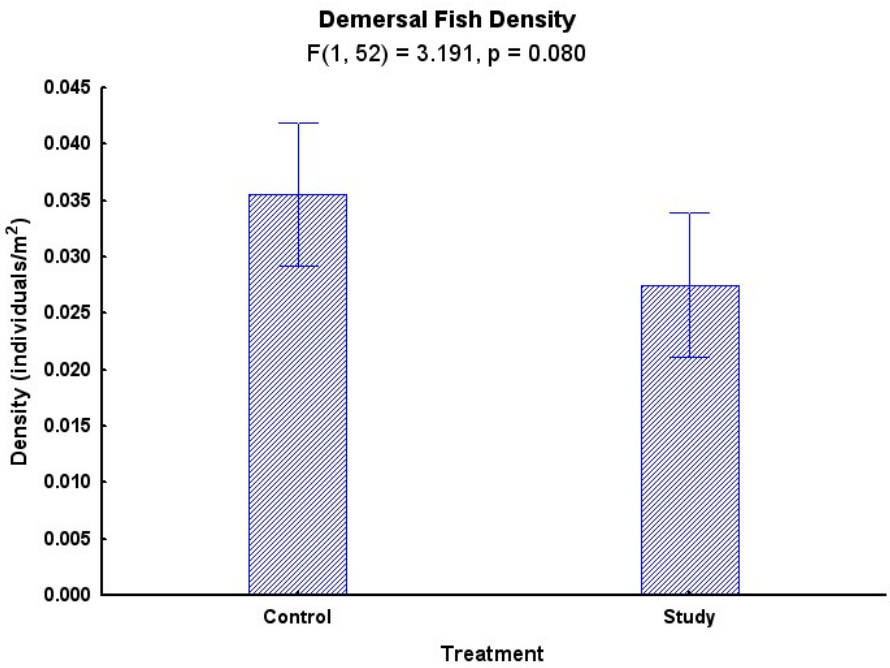

Figure 2. Average fish density for all species of demersal fish captured at each sampling site. Error bars are ± 1 standard deviation using the pooled variance of the treatment factor from the ANOVA model.

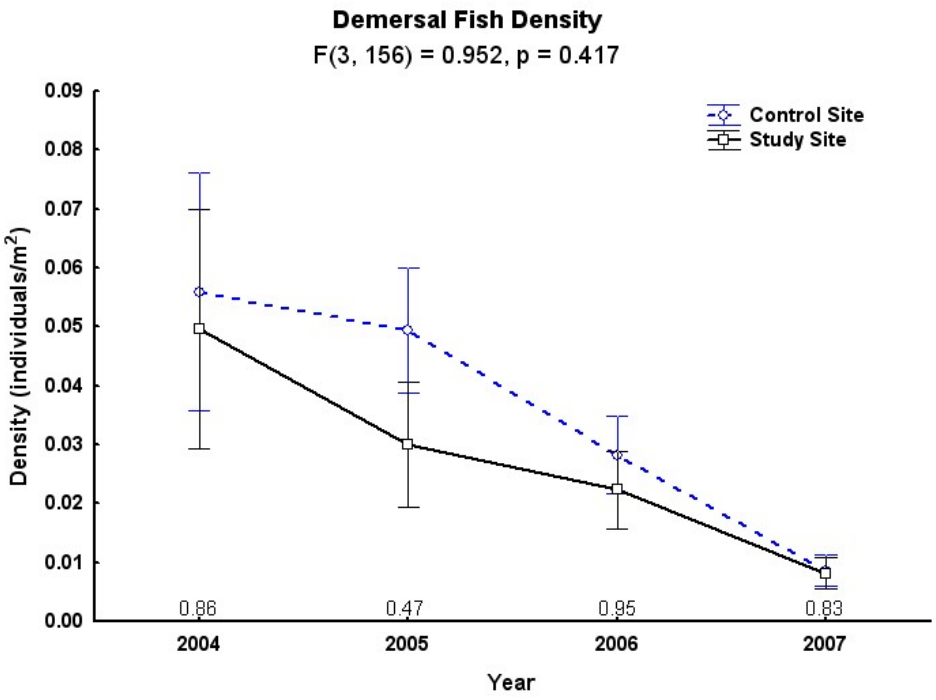

Figure 3. Average fish density for all species of demersal fish captured within each monitoring station by sampling event combination. Error bars are ± 1 standard deviation using the pooled variance across the treatments within each sampling period. Values above the x-axis are Morisita's Similarity Index comparing the Study Site and Control Site within each sampling year. Values closer to 1.00 indicate similarity between the Study Site and the Control Site.

and Study Site. Analysis of only the post-dredge data (**Table A1-1)** resulted in statistically lower catch of fish during the sampling year following the Dredge Project relative to the two subsequent years ($F_{(2, 104)} = 3.99$, $P = 0.021$). In this model, fish density was also lower at the Study Site ($F_{(1, 52)} = 6.75$, $P = 0.012$).

Fish Biomass

Fish biomass showed no trends relative to the treatment or the timing of the Dredge Project (**Table A1-2, Figure 4**, and **Figure 5**). The mean biomass between the Control Site and the Study Site was nearly identical ($F_{(1, 52)} = 0.001$, $P = 0.979$) (**Figure 4)**. Biomass increased slightly during the first three years of the study and then fell substantially in the final year (**Figure 5**). The trend was similar between the Control Site and the Study Site resulting in no statistically significant interaction between the treatment and year effect ($F_{(3, 156)} = 2.05$, $P = 0.110$) in the ANOVA model (**Table A1-2**). However, the decline in fish biomass across both sites was significant enough in the final year to produce a statistically significant difference in fish biomass across years (**Figure A1-3**). As with the density data, fish biomass was greater in samples collected at night ($F_{(1, 52)} = 28.20$, $P < 0.001$) (**Figure A1-4**). No analyses were performed on post-dredge data as with the density data because there were no trends observed in the biomass data warranting further analysis.

Fish Community Structure and Species Richness

The fish communities at the Control Site and Study site were similar during the pre-dredge sampling year (Morisita's Similarity = 0.86; **Figure 3**). Community similarity was lowest during the first post-dredge sampling event, 5 months after the Dredge Project (Morisita's Similarity = 0.47). During the second post-dredge sampling community similarity returned to the highest observed level (Morisita's Similarity = 0.95) and remained high in the final sampling year (Morisita's Similarity = 0.83).

The Study Site was more species rich overall with 29 of the 31 encountered species being captured at the Study Site. There were 8 species captured at the Study Site that were not captured at the Control Site. At the Control Site, two species were captured that were not captured at the Study Site (**Table 1**). However, trends with regards to species richness were not consistent throughout the sampling. Species richness was greater at the Study Site in 2004 and 2005, but the Control Site was more species rich in 2006 and 2007 (**Figure 6**). None of these trends seem to be associated with Dredge Project. The differences in species richness through time appear to be the result of a lower overall catch of fish with fewer species captured simply because fewer individuals were sampled. The decline in fish capture within both the Study Site and the Control Site addressed after completion of this project by sampling fish for two additional years (M&A 2010).

Captured Epibenthic Species

Over 105 epibenthic species were recorded during the study (**Table 2**). The number represents the number of unique identifications made; the actual number of species captured was higher because not all identifications were made to species level. Thus, in some cases separate species may have been identified as part of a higher-level taxonomic group because species identification could not be made. Of the identified species, 74 were captured in the Control Site, 82 were captured in the Study Site, and 50 were encountered at both sites.

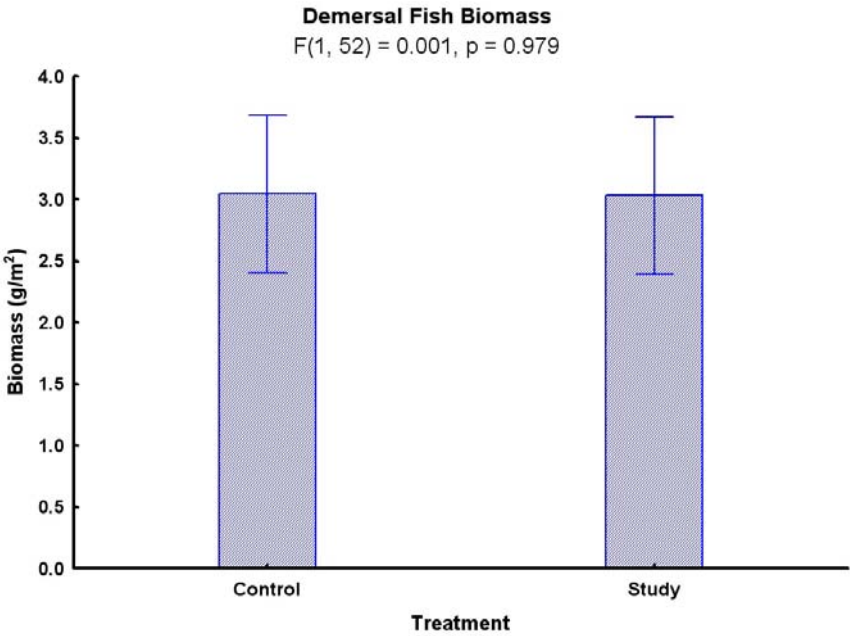

Figure 4. Average fish biomass for all species of demersal fish captured at the Control Site and Study Site night. Error bars are ± 1 standard deviation using the pooled variance of the treatment factor from the ANOVA model.

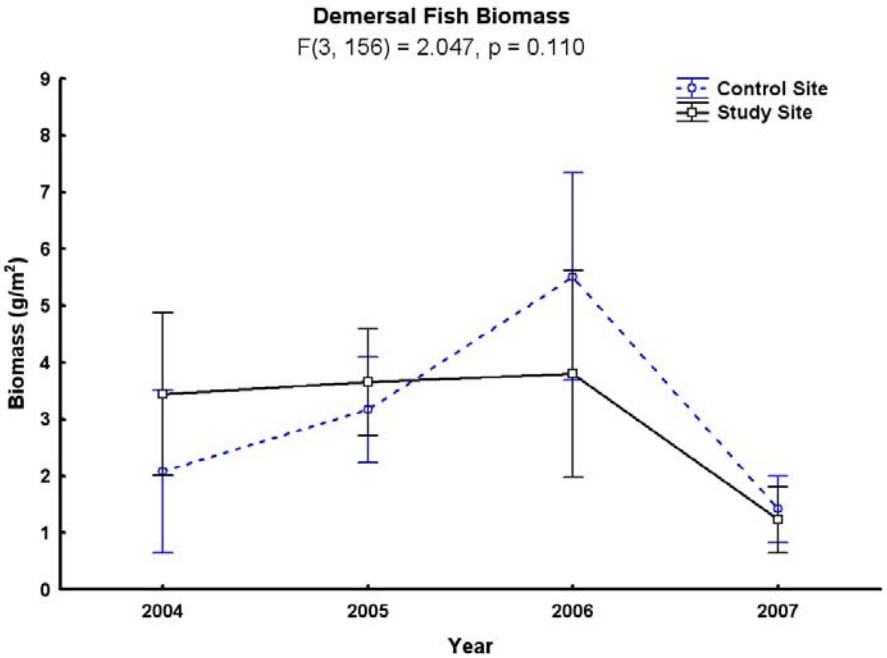

Figure 5. Average fish biomass for all species of demersal fish captured within each monitoring station by sampling event combination. Error bars are ± 1 standard deviation using the pooled variance across the treatments within each sampling period.

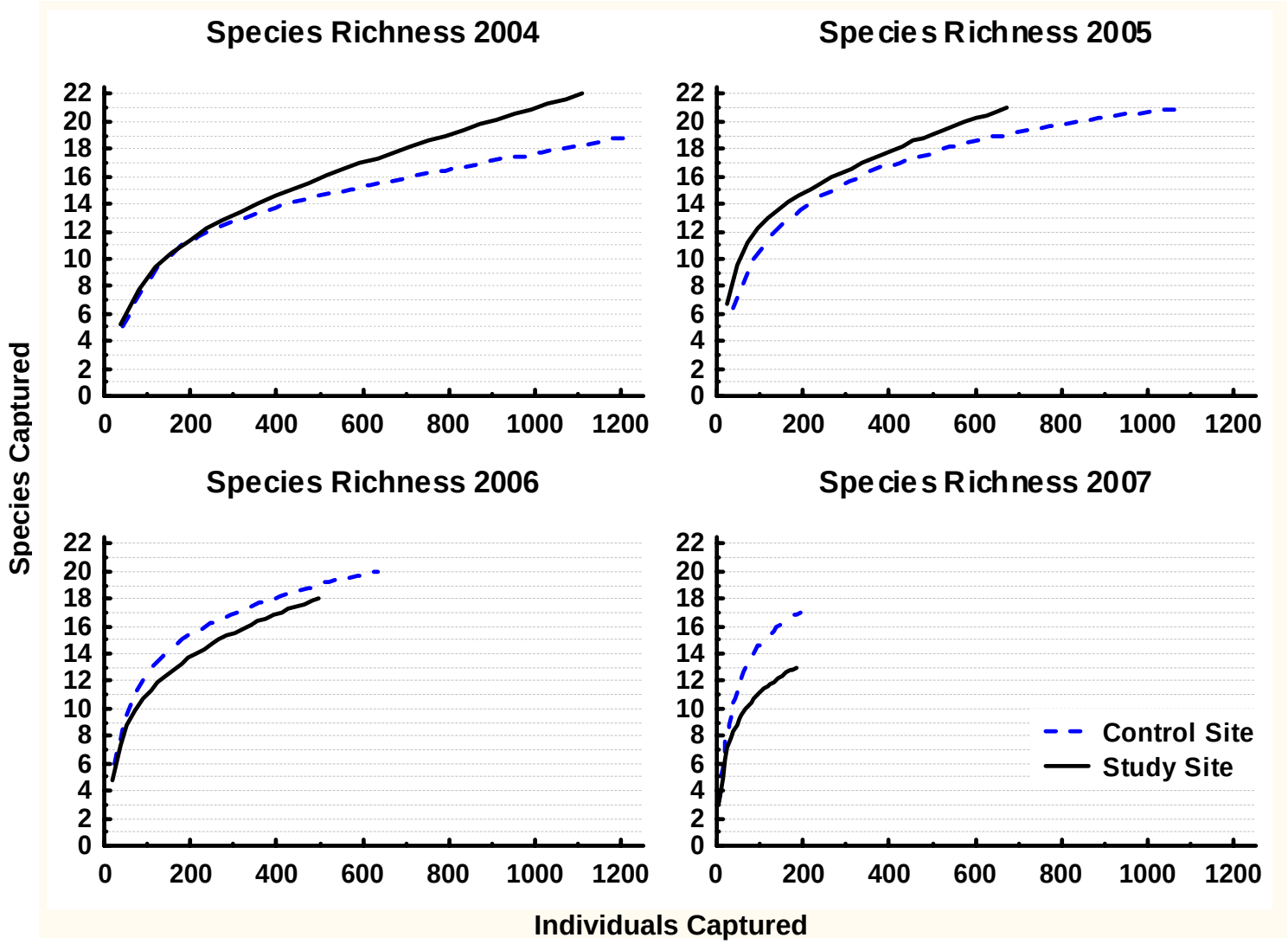

Figure 6. Species richness curves for demersal fish captured during the study. The presented curves are calculated sample-based rarefaction curves with the species data plotted as a function of the accumulated number of individuals captured.

Table 2. Epibenthic species captured throughout the duration of the study across both the Study and Control sites.

Family	Scientific Name	Common Name
Acteonidae	*Rictaxis punctocaelatus*	Striped Barrel Snail
Actiniidae	*Epiactis prolifera*	Proliferating Anemone
Aglajidae	*Bellomorpha sp.*	Wingfoot Snail
	Melanochlamys sp.	Sea slug
	Navanax inermis	Navanax
Alpheidae	*Alpheus sp.*	Pistol Shrimp
Anomiidae	*Anomia peruviana*	Peruvian Jingle
Aphroditidae	*Aphrodita aculeata*	Sea Mouse
Arminidae	*Armina californica*	Striped Armina
Asteriidae	*Pisaster sp.*	Starfish
Astropectinidae	*Astropecten armatus*	Armored Sea Star
Atyidae	*Haminoea vesicula*	White Bubble Snail
Balanidae	*Balanus sp.*	Balanus
Bicellariellidae	*Bugula sp.*	Bugula Bryozoa
Botryllidae	*Botrylloides sp.*	Purple Colonial Ascidian
Buccinidae	*Kellettia kellettia*	Kellet's Whelk
Cacridae	*Cancer productus*	Red Rock Crab
Callianassidae	*Neotrypaea sp.*	Ghost Shrimp
Calyptraeidae	*Crepidula sp.*	Slipper Snail
	Crucibulum spinosum	Spiny Cup-and-Saucer Shell
Campanulariidae	*Obelia sp.*	Obelia Hydroid
		Hard Hydroid Shrub
		Hydroid Shrub
		Soft Hydroid Shrub
Cancridae	*Cancer antennarius*	Pacific Rock Crab
	Cancer jordani	Hairy Rock Crab
	Cancer magister	Dungeoness Crab
	Cancer sp.	Cancer Crab
Cardiidae	*Laevicardium substriatum*	Egg Cockle
	Trachycardium quadrangenarium	Spiny Cockle
Chaetopteridae	*Chaetopterus variopedatus*	Parchment Tube Worm
Cionidae	*Ciona intestinalis*	Clear Elongate Tunicate
Columbellidae	*Alia carinata*	Carinated Dove Snail
Crangonidae	*Crangon franciscorum*	California Bay Shrimp
dendrodorididae	*Doriopsilla albopunctata*	White Spotted Porostome
Dorididae	*Anisodoris nobilis*	Sea Lemon
Dotoidae	*Doto kya*	Doto kya
Epitoniidae	*Epitonium tinctum*	Tinted Wentletrap
Facelinidae	*Phidiana sp.*	Phidiana
Fionidae	*Fiona sp.*	Fiona
Flabellinidae	*Flabellina iodinea*	Spanish Shawl
	Flabellina japonica	Flabellina japonica
	Flabellina trilineata	Three Lined Aeolid
Glyceridae	*Glycera sp.*	Bloodworm
Goniodorididae		Opisthobranchia (order)
Gonodactylidae	*Hemisquilla ensigera californiensis*	Mantis Shrimp
Gonoplacidae	*Malacoplax californiensis*	California Burrowing Crab
Grapsidae	*Hemigrapsus oregonensis*	Yellow Shore Crab
	Pachygrapsus crassipe	Striped Shore Crab

Table 2 Continued.

Family	Scientific Name	Common Name
Hippolytidae	*Hippolyte californiensis*	Grass Shrimp
Isanthidae	*Zaoluts actius*	White Burrowing Anemone
Leucosiidae	*Heterocrypta occidentalis*	Elbow Crab
Limidae	*Lima hemphilli*	File Shell
Loliginidae	*Loligo opalescens*	Common Market Squid
Lyonsidae	*Lyonsia californica*	California Lyonsia
Mactridae	*Mactrotoma californica*	California Surfclam
Majidae	*Pelia tumida*	Dwarf Teardrop Crab
	Pugettia producta	Northern Kelp Crab
	Pugettia sp.	Kelp Crab
	Pyromaia tuberculata	Tuberculate Pear Crab
Muriceidae	*Muricea californica*	Muricea gorgonian
Muricidae	*Maxwellia gemma*	Gem Murex
	Pteropurpura trialata	Three-Winged Murex
Mytilidae	*Musculista senhousia*	Green Mussell
	Mytilus galloprovincialis	Bay Mussell
Nassariidae	*Nassarius tegula*	Covered-Lip Nassa
Octopodidae	*Octopus bimaculoides*	Mud-flat Octopus
Olividae	*Olivella biplicata*	Purple Olive
Ophionereididae		Ophiuroidea (class)
Ostreidae	*Crassostrea gigas*	Pacific Oyster
	Ostrea lurida	Native Oyster
	Ostrea sp.	Oyster
Ovulidae	*Neosmnia sp.*	Neosimnia
Paguridae	*Pagurus sp.*	Hermit Crab
Palaemonidae	*Palaemon macrodactylus*	Oriental Shrimp
Palinuridae	*Panulirus interruptus*	Spiny Lobster
Pandalidae	*Pandalus sp.*	Pandalus shrimp
Pectinidae	*Argopecten ventricosus*	Speckled Scallop
	Crassodoma gigantea	Giant Rock Scallop
	Leptopecten latiauratus	Kelp Scallop
Petricolidae	*Petricola sp.*	Petricola
Pinnotheridae	*Scleroplax granulata*	Burrow Pea Crab
Plumulariidae		Ostrich Plume Hydroid
Portunidae	*Portunus xantusii*	Xantu's Swimming Crab
Psammobiidae	*Tagelus californianus*	Jacknife Clam
Rostrangidae	*Rostanga pulchra*	Red Sponge Nudibranch
Solenidae	*Solen sp.*	Razor Clam
Sponge Fam1		Articulated Sponge
Sponge Fam2		Demospongiae
Sponge Fam3		Hanging Sponge
Sponge Fam4		Keratose Sponge
Sponge Fam5		Orange coral sponge
Sponge Fam6		Orange Sponge
Sponge Fam7		Sponge C
Styelidae	*Styela sp.*	Stalked tunicate
		Styela tunicate

Table 2 Continued.

Family	Scientific Name	Common Name
Tellinidae	*Macoma sp.*	Macoma
Thraciidae	*Thracia sp.*	Thracia
Trochidae	*Tegula sp.*	Turban Snail
Veneridae	*Chiona undatella*	Wavy Cockle
	Protothaca sp.	Protothaca
Vesiculariidae	*Zoobotryon verticillatum*	Zoobotryon
Virgularidae	*Stylatula elongata*	Flexible Sea Pen
	Virgularia sp.	Hard Sea Pen
		Purple Sea Pen
		Sea Pen
Xanthidae	*Lophopanopeus bellus*	Black-Clawed Crab
	Lophopanopeus leucomanus	Southern Black-clawed crab

Epibenthic Density

Overall epibenthic density (excluding colonial organisms and sponges) varied by both treatment and year, and exhibited treatment by year interaction (**Table A1-3**). Average density was higher at the Study Site compared to the Control Site ($F_{(1, 54)} = 31.4$, $P < 0.001$) over the duration of the study (**Table A1-3** and **Figure 7**). Density was variable across years ($F_{(3, 162)} = 18.2$, $P < 0.001$) with exceptionally high density in 2006. The high density in 2006 was the result of the highest recorded densities occurring within the Study Site while the Control Site remained relatively consistent throughout the study (**Figure 8**). This divergence between the sites was responsible for the significant interaction in the ANOVA model ($F_{(3, 162)} = 12.0$, $P < 0.001$) between the treatment and year factors (**Table A1-3**).

Epibenthic Biomass

Epibenthic biomass did not vary by treatment ($F_{(1, 54)} = 2.86$, $P = 0.096$) when analyzed within the ANOVA model with both the pre- and post-dredge data (**Table A1-4** and **Figure 9**). Using the same model, there was statistically significant effect across sampling years ($F_{(3, 162)} = 6.41$, $P < 0.001$) (**Table A1-4)** with a decreasing trend in epibenthic biomass over the 4 sampling years (**Figure A1-6**). There was also interaction between treatment and sampling year ($F_{(3, 162)} = 2.97$, $P < 0.034$) (**Table A1-4**). The interaction appeared to result from a lower biomass of epibenthic invertebrates at the Study Site in the sampling period immediately following the Dredging Project (**Figure 10**).

Epibenthic Community Structure and Species Richness

Epibenthic community structure was compared using the density data for all species except for colonial and sponge species because densities could not be estimated for the colonial organisms and the many sponge fragments captured. The only trend was that community similarity increased with each sampling over the duration of the study, being dissimilar in 2004 and highly similar in 2007 (**Figure 8**).

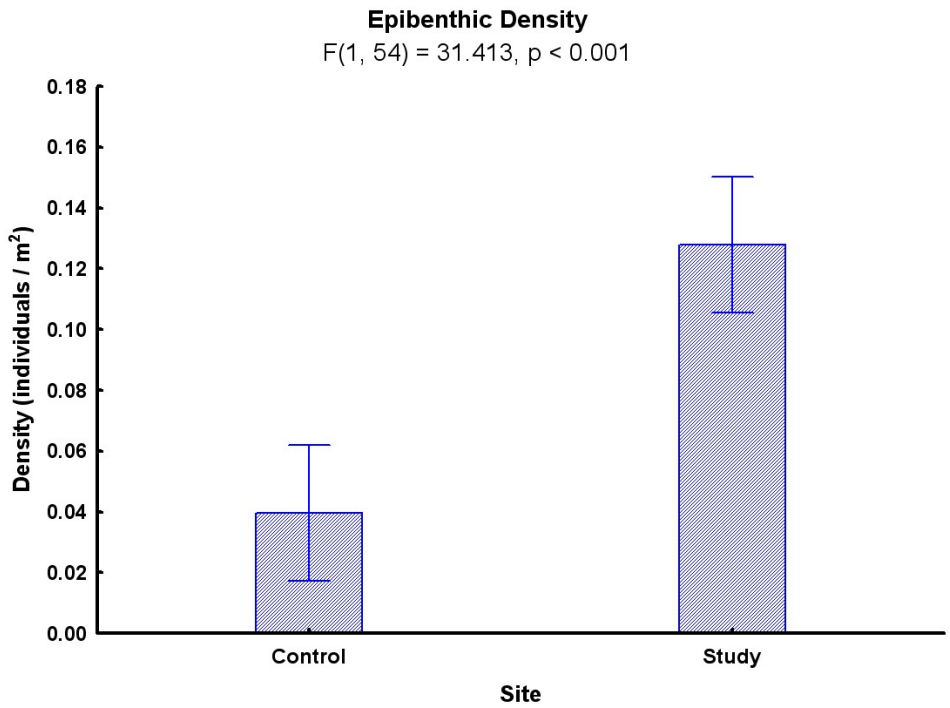

Figure 7. Average epibenthic density for all invertebrate species captured at the Control Site and Study Site. Error bars are ± 1 standard deviation using the pooled variance of the treatment factor from the ANOVA model.

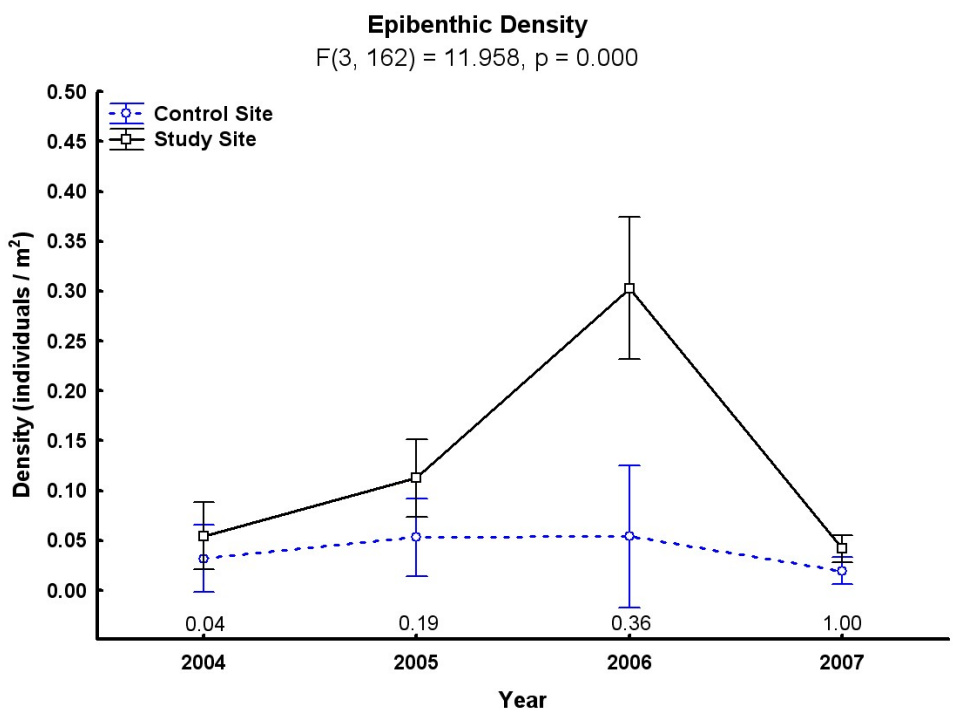

Figure 8. Average epibenthic density for all invertebrate species captured within each monitoring station by sampling event combination. Error bars are ± 1 standard deviation using the pooled variance across the treatments within each sampling period.

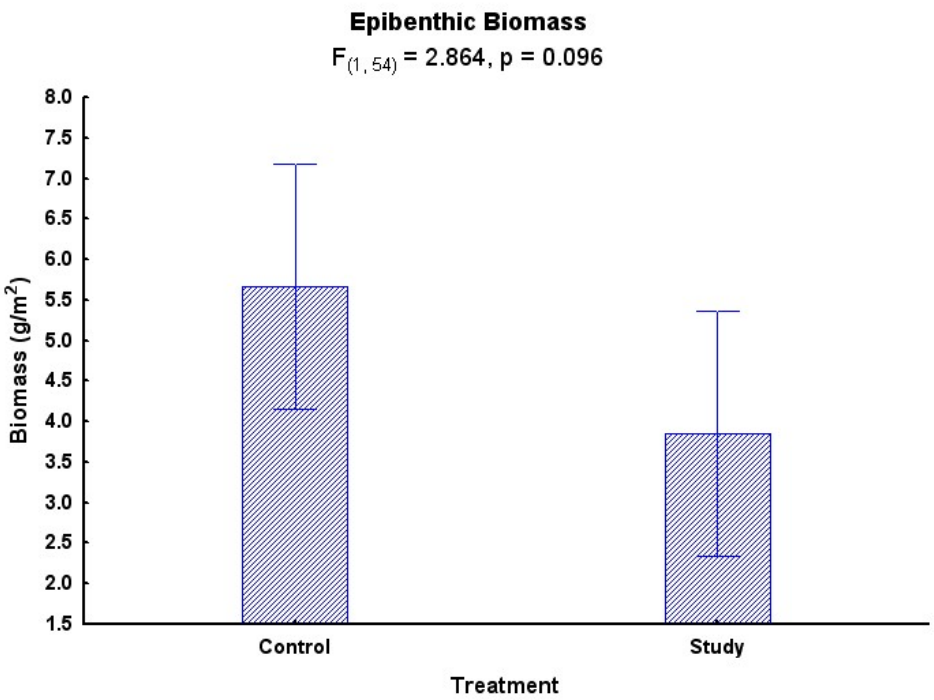

Figure 9. Average epibenthic biomass for all invertebrate species captured at the Control Site and Study Site. Error bars are ± 1 standard deviation using the pooled variance of the treatment factor from the ANOVA model.

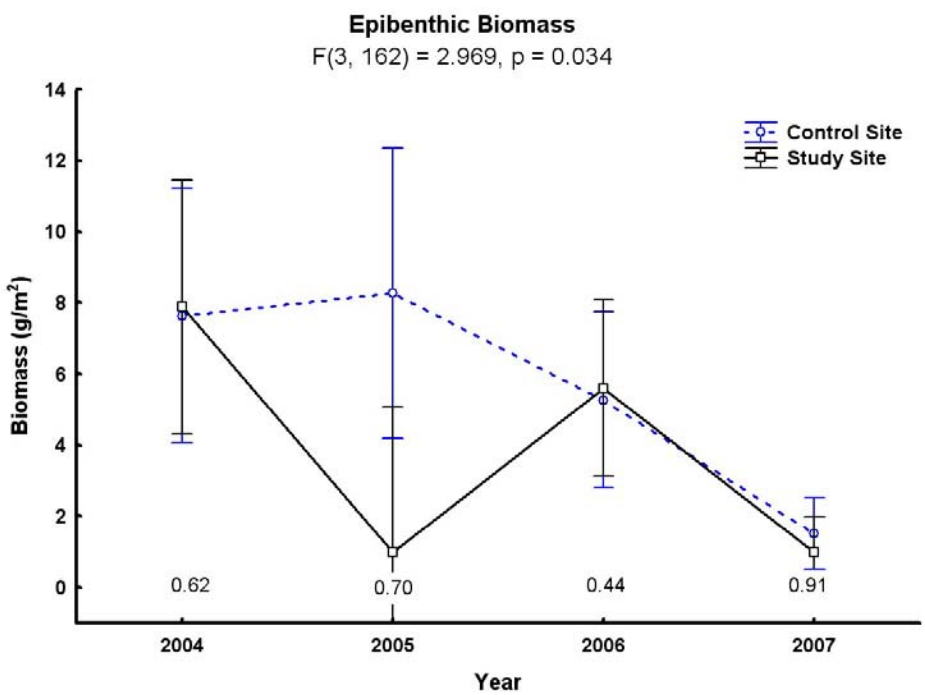

Figure 10. Average epibenthic biomass for all invertebrate species captured within each monitoring station by sampling event combination. Error bars are ± 1 standard deviation using the pooled variance across the treatments within each sampling period.

The Control Site was more species rich in every sampled year (**Figure 11**). In 2007, the Study and Control sites were similar, but the Control Site had slightly higher species richness. However, the actual number of species encountered was greater during all sampling years at the Study Site. This was a result of greater numbers of species being captured at the Study Site. However, when standardized for the numbers of individuals captured, the Control Site was the richer of the two sites. The only real trends observed with regards to the Dredge Project was that the numbers of individuals captured went up for two years following the Dredge Project then returned to pre-dredge levels. This is the same trend noted for the analysis of species density and observed in **Figure 8**.

Captured Benthic Species

A total of 508 unique taxonomic identifications were made representing 12 phyla. The unique taxa identifications generally represent species. However, not all classifications were possible to the level of species and in some cases a single species may have been assigned multiple classifications. For instance species identification may sometimes not be possible due to damage or age of the individual. However, the same taxonomists were used throughout the study. Moreover, the employed taxonomists were members of the Southern California Association of Marine Invertebrate Taxonomists (SCAMIT). Thus, the data are internally consistent and should be externally consistent and comparable to other southern California sampling programs. The complete taxonomic data set is included as **Appendix 1**.

Of the 508 unique taxa, 407 occurred within the Control Site and 361 occurred within the Study Site. Given that most taxonomic classifications were possible to the level of family, community and species (family) richness comparisons were made at the level of family. There were a total of 163 families identified throughout the study (**Table 3**). Of these, 148 and 138 families were identified at the Control Site and Study Site, respectively.

Benthic Infauna Density

The overall density of benthic infauna throughout the study was similar between the Study Site and Control Site ($F_{(1, 26)} = 1.10$, $p = 0.305$) (**Table A1-5** and **Figure 12**). The only notable trend with regards to infauna density was an increase in density in 2005 (**Figure A1-7**), which resulted in a statistically significant year effect ($F_{(3, 78)} = 5.46$, $p = 0.002$) in the ANOVA model (**Table A1-5).** There was no interaction between the treatment and year factors ($F_{(3, 78)} = 0.09$, $p = 0.966$). The Study Site and Control Site tracked each other closely, both increasing in 2005 and subsequently returning to pre-2005 densities (**Figure 13**).

Benthic Infauna Biomass

There were no statistical trends for infauna biomass with regards to the treatment effect ($F_{(1, 26)} = 3.53$, $p = 0.071$), year effect ($F_{(3, 78)} = 1.79$, $p = 0.155$), or the interaction of effects ($F_{(3, 78)} = 1.83$, $p = 0.149$) in the ANOVA model (**Table A1-6**). Infauna biomass was similar between the Study Site and Control Site (**Figure 14**). Infauna biomass was relatively consistent over the study years with the exception of 2006, which saw a noticeable increase in biomass (**Figure A1-8**). The biomass increase in 2006 was due to an increase at the Study Site (**Figure 15**). Although the Control Site remained relatively consistent throughout the sampling years, the divergence in biomass between the Study Site and the Control Site in 2006 was not enough to drive a significant interaction between the experimental effects.

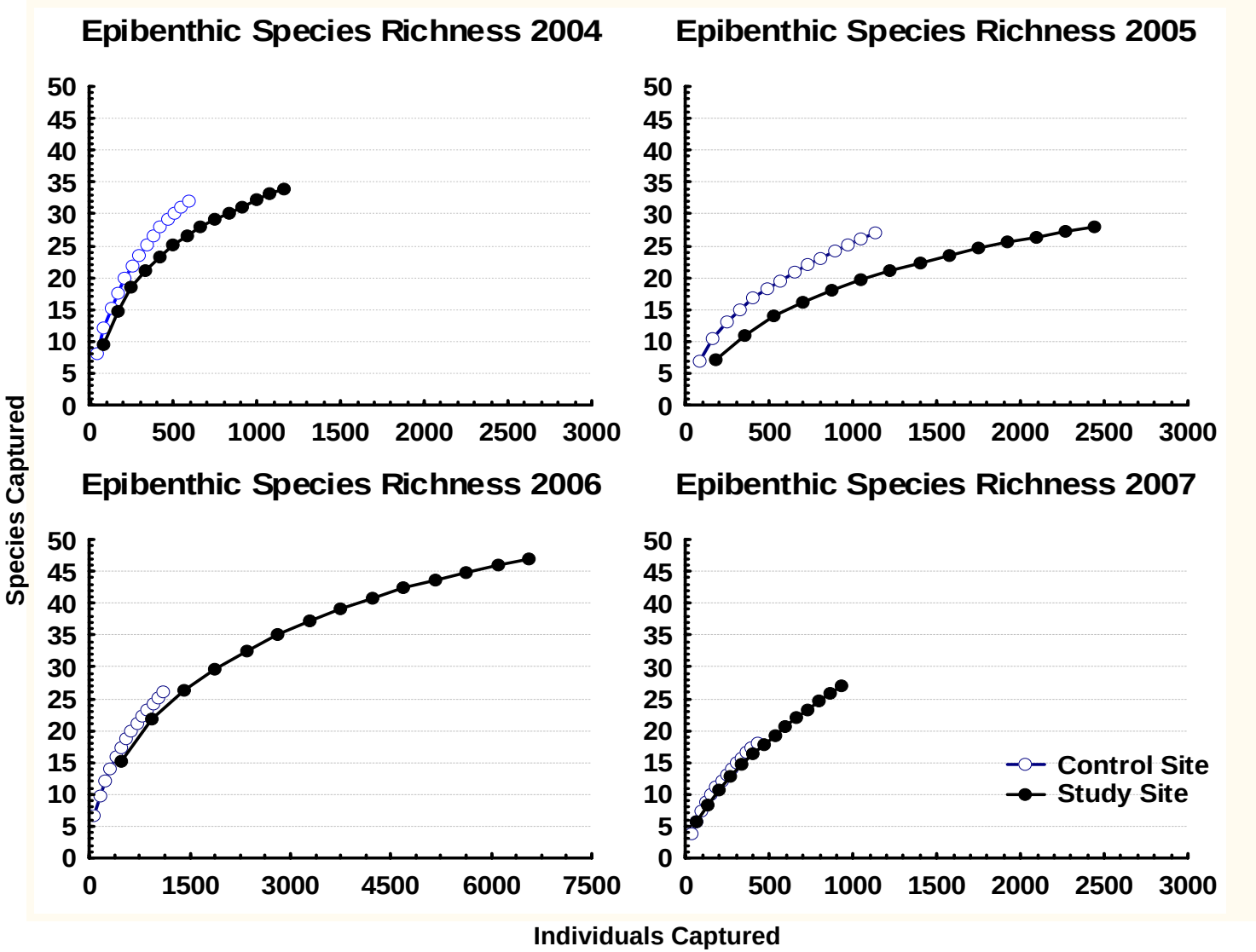

Figure 11. Species richness curves for epibenthic invertebrates captured during the study. The presented curves are calculated sample-based rarefaction curves with the species data plotted as a function of the accumulated number of individuals captured.

Table 3. Benthic infaunal invertebrate species captured throughout the duration of the study. Totals represent the total number of individuals of a given family captured throughout the study at Control and Study Sites. Shaded boxes for each family by sampling year combination represent the relative catch for each sampling year by site combination relative to the total catch across all years for the corresponding site.

		Control Site				Control Site	Study Site				Study Site
Phylum	**Family**	**2004**	**2005**	**2006**	**2007**	**Total**	**2004**	**2005**	**2006**	**2007**	**Total**
Annelida						24904					14188
	Acrocirridae					0					9
	Ampharetidae					352					67
	Amphinomidae					2					15
	Aphroditidae					5					2
	Archiannelida					1					0
	Capitellidae					2527					2403
	Chaetopteridae					43					22
	Chrysopetalidae					10					1
	Cirratulidae					1281					158
	Cossuridae					54					5
	Dorvilleidae					68					50
	Eunicidae					8					16
	Flabelligeridae					332					809
	Glyceridae					200					85
	Goniadidae					84					87
	Hesionidae					51					10
	Lumbrineridae					5048					4454
	Maldanidae					1017					68
	Nephtyidae					145					44
	Nereididae					142					34
	Nynantheae					2					2
	Oenonidae					1					3
	Onuphidae					65					9
	Opheliidae					593					46
	Orbiniidae					1967					1289
	Oweniidae					16					7
	Paraonidae					11					1
	Pectinariidae					6					0
	Pholoididae					1					0
	Phyllodocidae					79					58
	Pilargidae					2					0
	Poecilochaetidae					1					9

Table 3 Continued.

Phylum	Family	Control Site 2004	Control Site 2005	Control Site 2006	Control Site 2007	Control Site Total	Study Site 2004	Study Site 2005	Study Site 2006	Study Site 2007	Study Site Total
	Polynoidae					38					93
	Sabellariidae					21					37
	Sabellariidae					1					0
	Sabellidae					6198					537
	Scalibregmatidae					3					0
	Serpulidae					3					0
	Sigalionidae					15					1
	Spionidae					2730					1924
	Syllidae					1255					1424
	Terebellidae					526					409
Arthropoda						9924					13212
	Acanthonotozomatidae					1					1
	Aoridae					19					0
	Cypridinidae					3					6
	Alpheidae					9					21
	Ammotheidae					1					0
	Ampeliscidae					1095					37
	Amphilochidae					17					20
	Ampithoidae					0					0
	Anthuridae					4					6
	Arcturidae					47					265
	Callianassidae					10					33
	Caprellidae					41					24
	Colomastigidae					0					3
	Corophiidae					44					110
	Crangonidae					6					1
	Cyclasteropinae					80					5
	Cylindroleberididae					58					44
	Dexaminidae					1					1
	Diastylidae					40					5
	Gammaridae					6625					3595
	Gelechiidae					80					69
	Grapsidae					1					0
	Hippolytidae					0					0
	Homolodromiidae					4					1

Table 3 Continued.

Phylum	Family	Control Site 2004	Control Site 2005	Control Site 2006	Control Site 2007	Control Site Total	Study Site 2004	Study Site 2005	Study Site 2006	Study Site 2007	Study Site Total
	Isaeidae					155					301
	Ischyroceridae					391					858
	Joeropsididae					9					526
	Kalliapseudidae					6					4874
	Laomediidae					0					487
	Leucothoidae					0					30
	Liljeborgiidae					61					45
	Lysianassidae					21					39
	Majidae					124					213
	Megaluropidae					1					1
	Melitidae					6					0
	Melphidippidae					28					3
	Munnidae					2					0
	Mysidacea					2					9
	Mysidae					44					6
	Nannastacidae					0					4
	Oedicerotidae					69					93
	Panopeidae					2					0
	Paranthuridae					0					6
	Parapseudidae					44					14
	Paratanaidae					45					35
	Philomedidae					160					48
	Phoxichilidiidae					4					9
	Phoxocephalidae					314					1026
	Phtiscidae					54					15
	Pinnotheridae					46					37
	Podoceridae					14					20
	Portunidae					9					2
	Protellidae					2					11
	Rutidermatidae					5					1
	Serolidae					86					180
	Sphaeromatidae					7					4
	Stenothoidae					2					6
	Tanaidae					3					0
	Tannystylidae					19					1

Table 3 Continued.

Phylum	Family	Control Site 2004	Control Site 2005	Control Site 2006	Control Site 2007	Control Site Total	Study Site 2004	Study Site 2005	Study Site 2006	Study Site 2007	Study Site Total
	Upogebiidae					0					2
	Xanthidae					3					59
Brachiopoda						3					3
	Lingulidae					3					3
Chordata						31					44
	Cionidae					0					1
	Molgulidae					31					24
	Pyuridae					0					14
	Styelidae					0					5
Cnidaria						5041					913
	Actiniidae					1					9
	Cerianthidae					12					31
	Corymorphidae					4					40
	Edwardsiidae					4728					527
	Gonactiniidae					215					134
	Virgulariidae					81					172
Echinodermata						222					428
	Amphiuridae					174					375
	Synaptidae					48					53
Echiura						0					1
	Urechidae					0					1
Mollusca						1991					5175
	Acteonidae					3					0
	Aeolidiidae					3					0
	Aglajidae					11					2
	Caecidae					0					19
	Calyptraeidae					141					1345
	Cardiidae					143					108
	Columbellidae					11					3
	Conidae					9					0
	Corbulidae					1					1
	Cylichnidae					57					18
	Cystiscidae					0					5
	Diplodontidae					15					19
	Dotoidae					10					0

Table 3 Continued.

Phylum	Family	Control Site 2004	Control Site 2005	Control Site 2006	Control Site 2007	Control Site Total	Study Site 2004	Study Site 2005	Study Site 2006	Study Site 2007	Study Site Total
	Epitoniidae					7					3
	Eulimidae					1					0
	Gadilidae					6					0
	Hiatellidae					0					2
	Lasaeidae					69					13
	Lucinidae					54					57
	Lyonsidae					66					699
	Mactridae					78					75
	Muricidae					3					7
	Myidae					0					8
	Mytilidae					8					914
	Nassariidae					1					0
	Neoleptonidae					0					0
	Olividae					18					1
	Ostreidae					10					75
	Pectinidae					41					7
	Periplomatidae					5					0
	Petricolidae					25					13
	Philinidae					14					0
	Psammobiidae					593					612
	Pyramidellidae					23					8
	Semelidae					180					464
	Solenidae					44					148
	Tellinidae					146					49
	Thraciidae					172					431
	Tritoniidae					1					0
	Veneridae					22					69
Nemertea						440					156
	Amphiphoridae					4					2
	Carinomidae					102					38
	Emplectonematidae					97					39
	Lineidae					150					51
	Tubulanidae					87					26
Phorona						440					133
	Phoronidae					440					133

Table 3 Continued.

		Control Site				Control Site	Study Site				Study Site
Phylum	**Family**	**2004**	**2005**	**2006**	**2007**	**Total**	**2004**	**2005**	**2006**	**2007**	**Total**
Platyhelminthes						14					25
	Latocestidae					5					10
	Stylochoplanidae					9					15
Sipuncula						3					0
	Golfingiidae					3					0

Legend **0%** **1 - 25%** **26 - 50%** **51 - 75%** **76 - 100%**

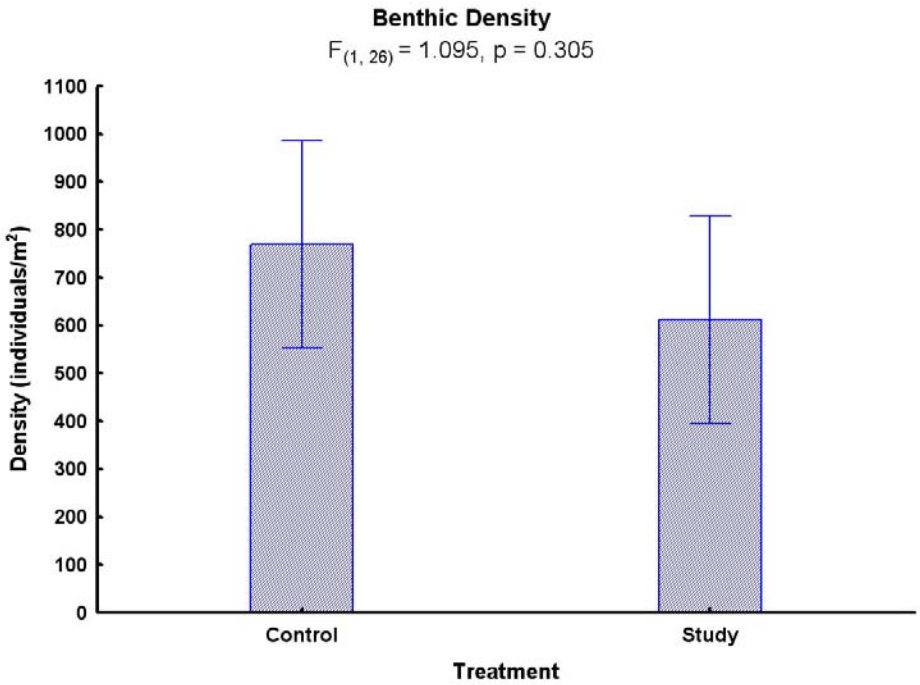

Figure 12. Average benthic density for all benthic invertebrate species captured at the Control Site and Study Site. Error bars are ± 1 standard deviation using the pooled variance of the treatment factor from the ANOVA model.

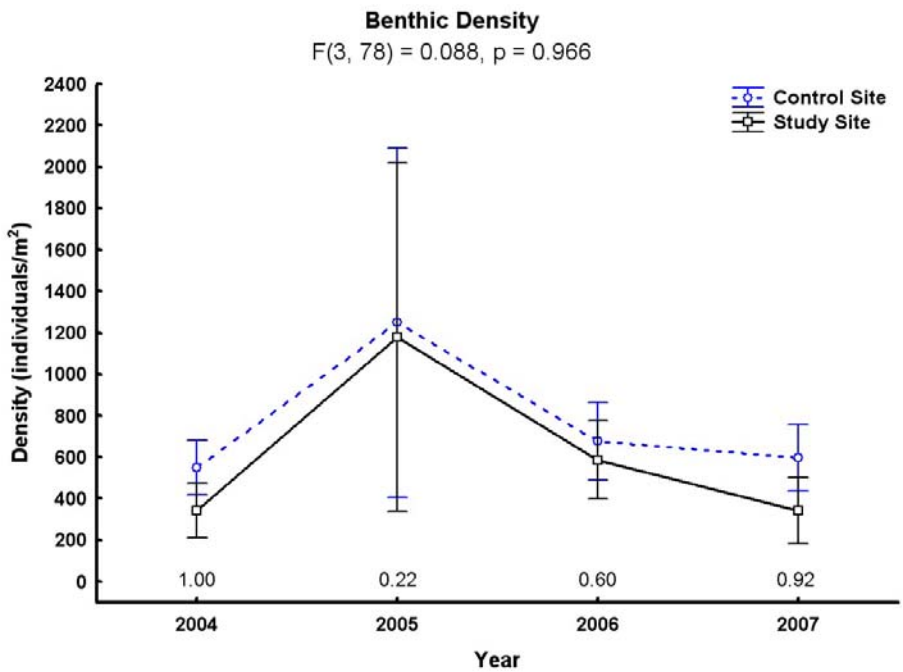

Figure 13. Average density for all benthic invertebrate species captured within each monitoring station by sampling event combination. Error bars are ± 1 standard deviation using the pooled variance across the treatments within each sampling period.

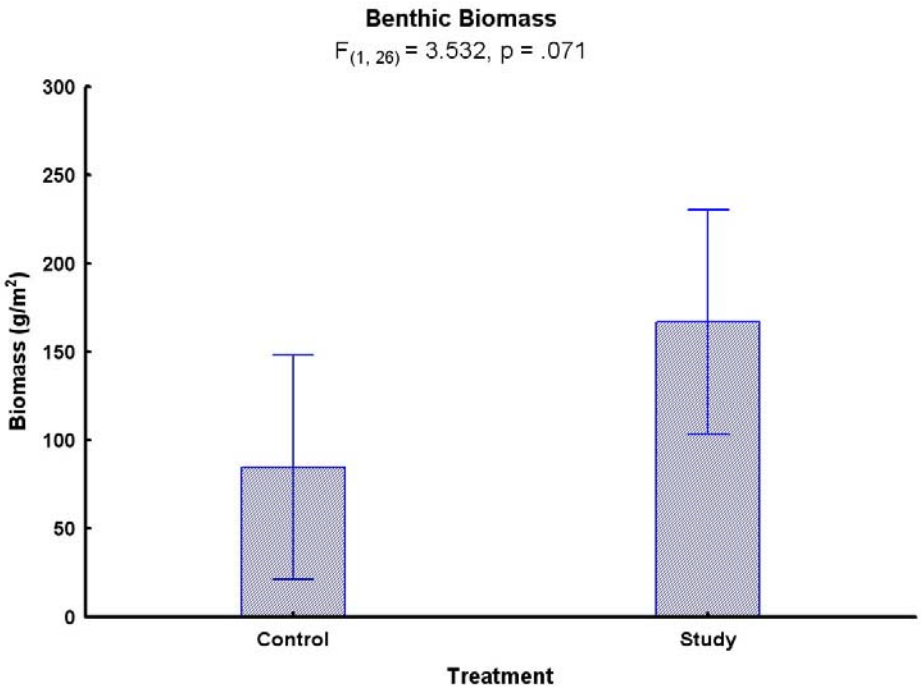

Figure 14. Average benthic biomass for all benthic invertebrate species captured at the Control Site and Study Site. Error bars are ± 1 standard deviation using the pooled variance of the treatment factor from the ANOVA model.

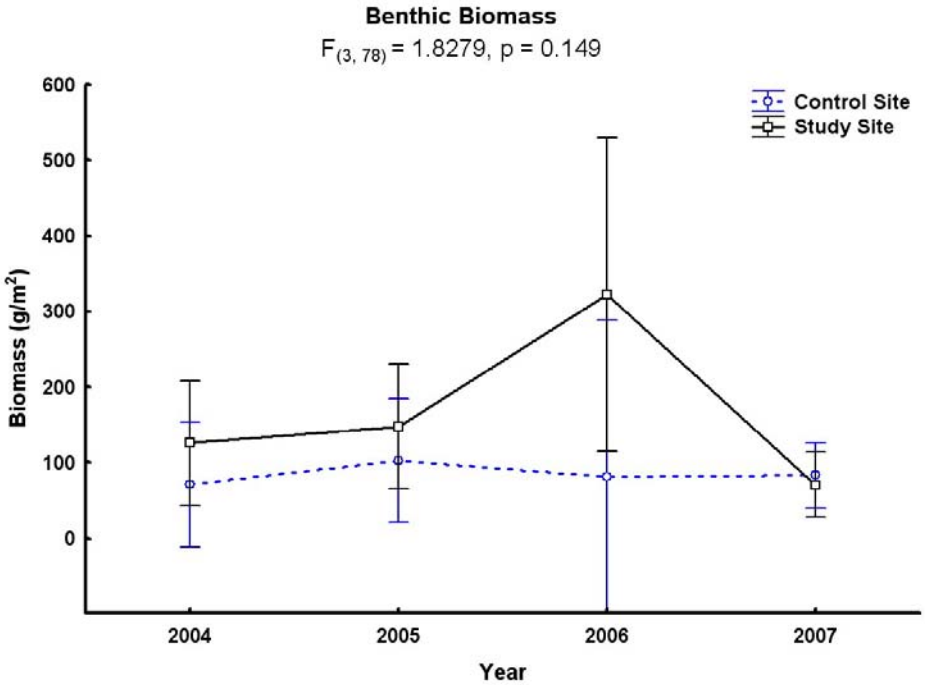

Figure 15. Average biomass for all benthic invertebrate species captured within each monitoring station by sampling event combination. Error bars are ± 1 standard deviation using the pooled variance across the treatments within each sampling period.

Benthic Community Structure and Species Richness

Benthic community structure was compared using the density data for all species captured at the level of family. The Morisita's similarity index comparing the capture of individuals within each benthic family was the greatest (1.00) prior to the Dredge Project in 2004. Following the Dredge Project in 2005 the Morisita's index was at its lowest observed value (0.22). Community similarity increased to 0.60 in 2006 and increased again to 0.92 in 2007 (**Figure 13**).

The Study and Control Sites were similar in family richness prior to the Dredge Project (**Figure 16**). Following the Dredge Project in 2005, the Study and Control Sites diverged in family richness. In 2005, there were 125 families of invertebrates captured within the Control Site and 100 families captured in the Study Site (**Figure 16**). In 2006 and 2007, family richness was again similar between the sites (**Figure 16**).

The calculated benthic indices to determine community condition generally revealed that both the Control Site and Study Site were within reference conditions determined by SCCWRP Bight 08 (SCCWRP 2008) sampling of reference sites (**Table 4**). The calculation of the Relative Benthic Index (RBI) and the Benthic Response Index (BRI) showed that on average the Control Site and the Study Site were within reference conditions in all sampling years. However, the Index of Biotic Integrity (IBI) showed that the benthic community within the Control Site was at a low level of disturbance in 2005 and 2007. The IBI also showed that the Study Site was at a low disturbance level in 2004, 2005, and 2007.

Physical Parameters

TOC was not found to vary in a manner consistent with determination of dredge impacts from the Dredge Project (**Table A1-7**). *A priori* expectation would be a decline in TOC at the Study Site following removal of the top layers of sediment. However, there was no significant difference in TOC between the Study Site and the Control Site ($F_{(1, 24)} = 3.51$, $p = 0.073$), and there was no detectable interaction ($F_{(3, 72)} = 0.63$, $p = 0.601$) between the treatment and time factors (**Table A1-7**, **Figure 17** and **Figure 18**). The only noticeable trend with regards to TOC was a decline across both the Study Site and Control Site over the study period with a statistically significant year effect in the ANOVA model (**Table A1-7** and **Figure 18**).

Similar to TOC, grain size distribution did not vary in a manner coincident with impacts from the Dredge Project. The most notable trend with regards to grain size distribution was a temporal shift in grain size distribution resulting in significant temporal effects and interactions between the time and treatment factors in the ANOVA models (**Table A1-8**). In 2006, the measured proportion of fine sands declined slightly, while the other three primary classification categories increased across both the Study Site and the Control Site with the exception of silt at the Study Site (**Figure 19**).

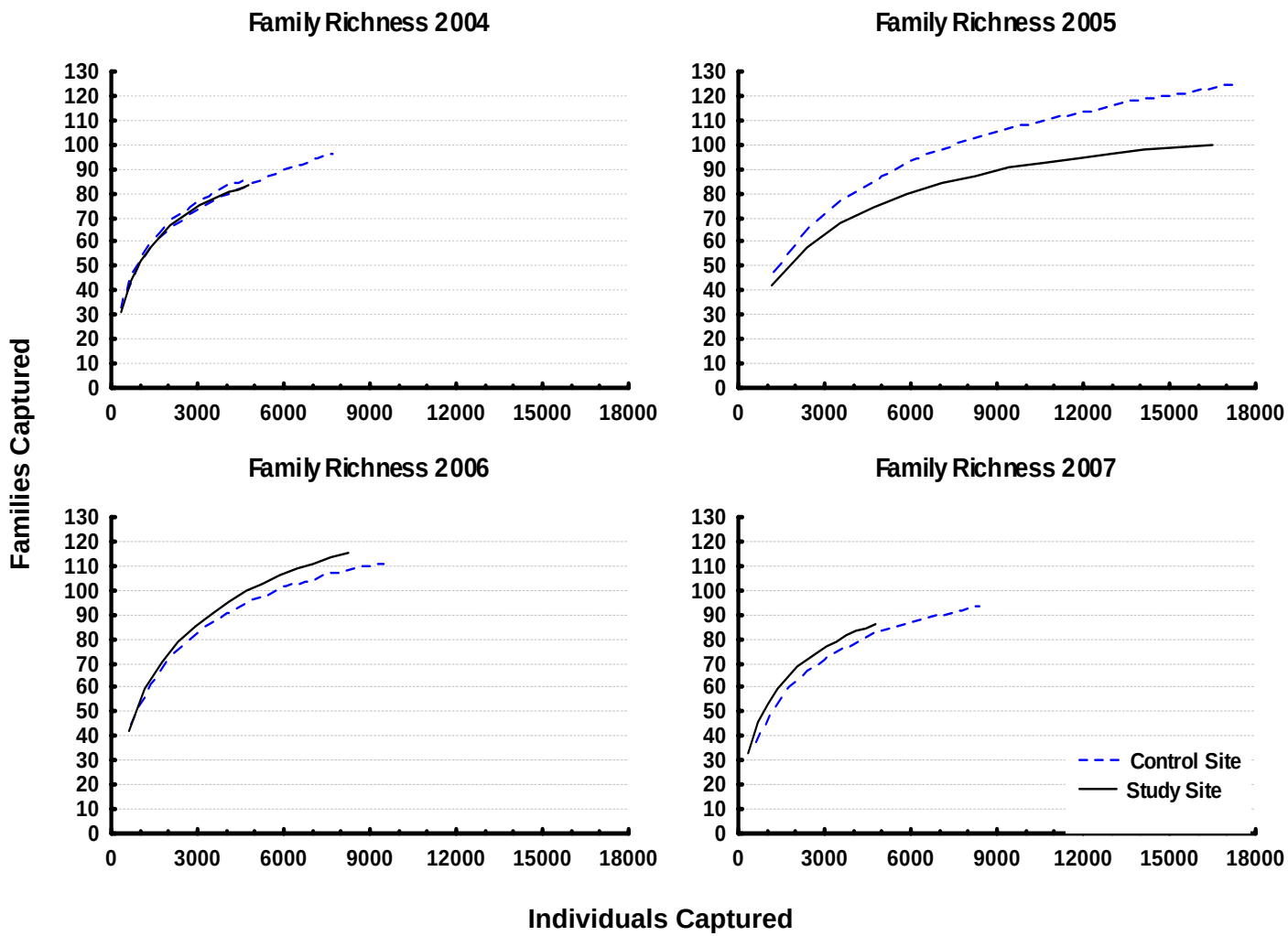

Figure 16. Species richness curves for benthic invertebrates captured during the study. The presented curves are calculated sample-based rarefaction curves with the family data plotted as a function of the accumulated number of individuals captured.

Table 4. Benthic invertebrate community indices for each station by year combination. Indices relate to level of site disturbance as compared to Southern California Coastal Water Research Project reference site data. A score of 1 means the station was within the expected reference range for a non-disturbed site. Index scores of 2, 3, and 4 refer to low, moderate, and high levels of disturbance, respectively.

		Index of Biotic Integrity (IBI)				Relative Benthic Index (RBI)				Benthic Response Index (BRI)			
Treatment	**Station**	**2004**	**2005**	**2006**	**2007**	**2004**	**2005**	**2006**	**2007**	**2004**	**2005**	**2006**	**2007**
Control	B1C	2	2	1	2	1	1	2	1	1	1	1	1
	B2C	2	2	2	2	1	1	1	2	1	1	1	1
	B3C	1	2	1	2	1	1	1	1	1	1	1	1
	B4C	2	2	2	2	1	2	1	1	1	1	1	1
	B5C	1	2	1	2	1	1	1	1	1	1	1	1
	B6C	1	2	2	2	1	1	1	1	1	1	1	1
	B7C	1	1	1	2	1	1	1	2	1	1	1	1
	B8C	2	2	1	1	1	1	1	1	1	1	1	1
	B9C	1	4	1	1	1	1	1	2	1	1	1	1
	B10C	1	3	2	2	1	1	1	1	1	1	1	1
	B11C	1	1	1	2	1	1	1	1	1	1	1	1
	B12C	1	2	2	1	1	1	1	1	1	1	1	1
	B13C	1	3	2	2	1	1	1	2	1	1	1	1
	B14C	2	2	1	2	1	2	2	1	1	1	1	1
	Averages	**1.4**	**2.1**	**1.4**	**1.8**	**1.0**	**1.1**	**1.1**	**1.3**	**1.0**	**1.0**	**1.0**	**1.0**
Experiment	B1E	2	2	2	2	2	1	1	1	2	1	1	1
	B2E	2	1	1	2	2	1	1	1	1	1	1	1
	B3E	2	2	1	2	1	1	1	1	1	1	1	1
	B4E	2	1	2	2	1	1	1	1	1	1	1	1
	B5E	2	2	1	2	1	1	1	1	1	1	1	1
	B6E	1	1	2	2	1	1	1	1	1	1	1	1
	B7E	2	1	1	2	1	1	1	1	1	1	1	1
	B8E	2	2	2	2	1	1	2	1	1	1	1	1
	B9E	2	1	1	2	1	1	1	1	1	1	1	1
	B10E	1	1	1	2	1	1	1	1	1	1	1	1
	B11E	1	2	2	2	1	1	1	1	1	1	1	1
	B12E	2	2	1	2	1	1	1	1	1	1	1	1
	B13E	2	2	2	2	1	1	1	1	1	1	1	1
	B14E	2	1	1	2	1	1	1	1	1	1	1	1
	Averages	**1.8**	**1.5**	**1.4**	**2.0**	**1.1**	**1.0**	**1.1**	**1.0**	**1.1**	**1.0**	**1.0**	**1.0**

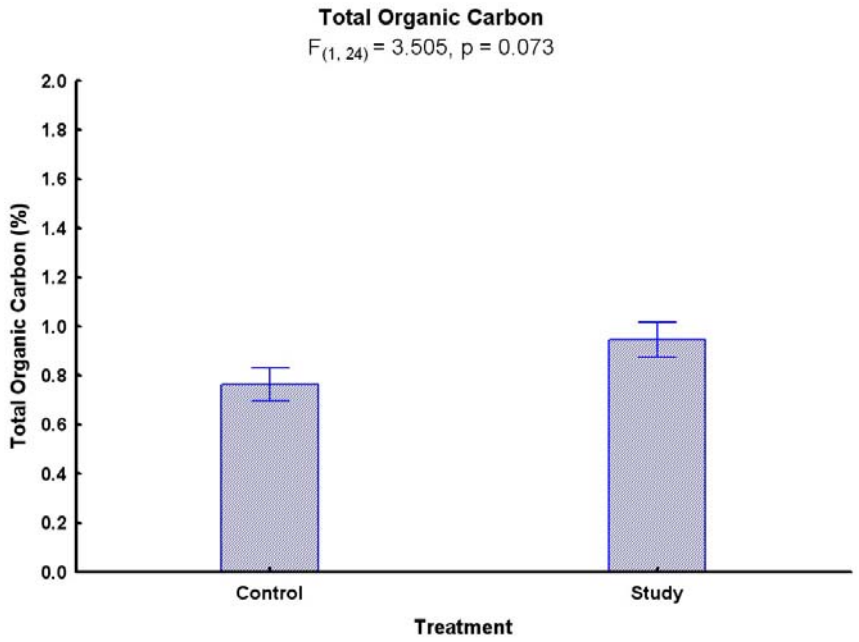

Figure 17. Average total organic carbon (TOC) for all TOC samples collected at the Control Site and Study Site. Error bars are ± 1 standard deviation using the pooled variance of the treatment factor from the ANOVA model.

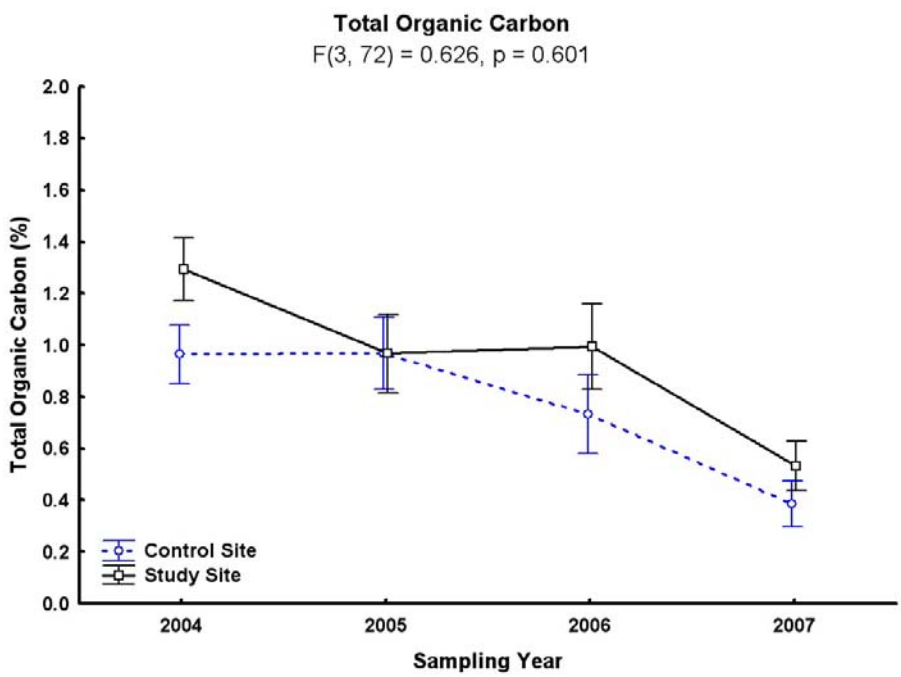

Figure 18. Average percent total organic carbon (TOC) for all TOC samples collected within each monitoring station by sampling event combination. Error bars are ± 1 standard deviation using the pooled variance across the treatments within each sampling period.

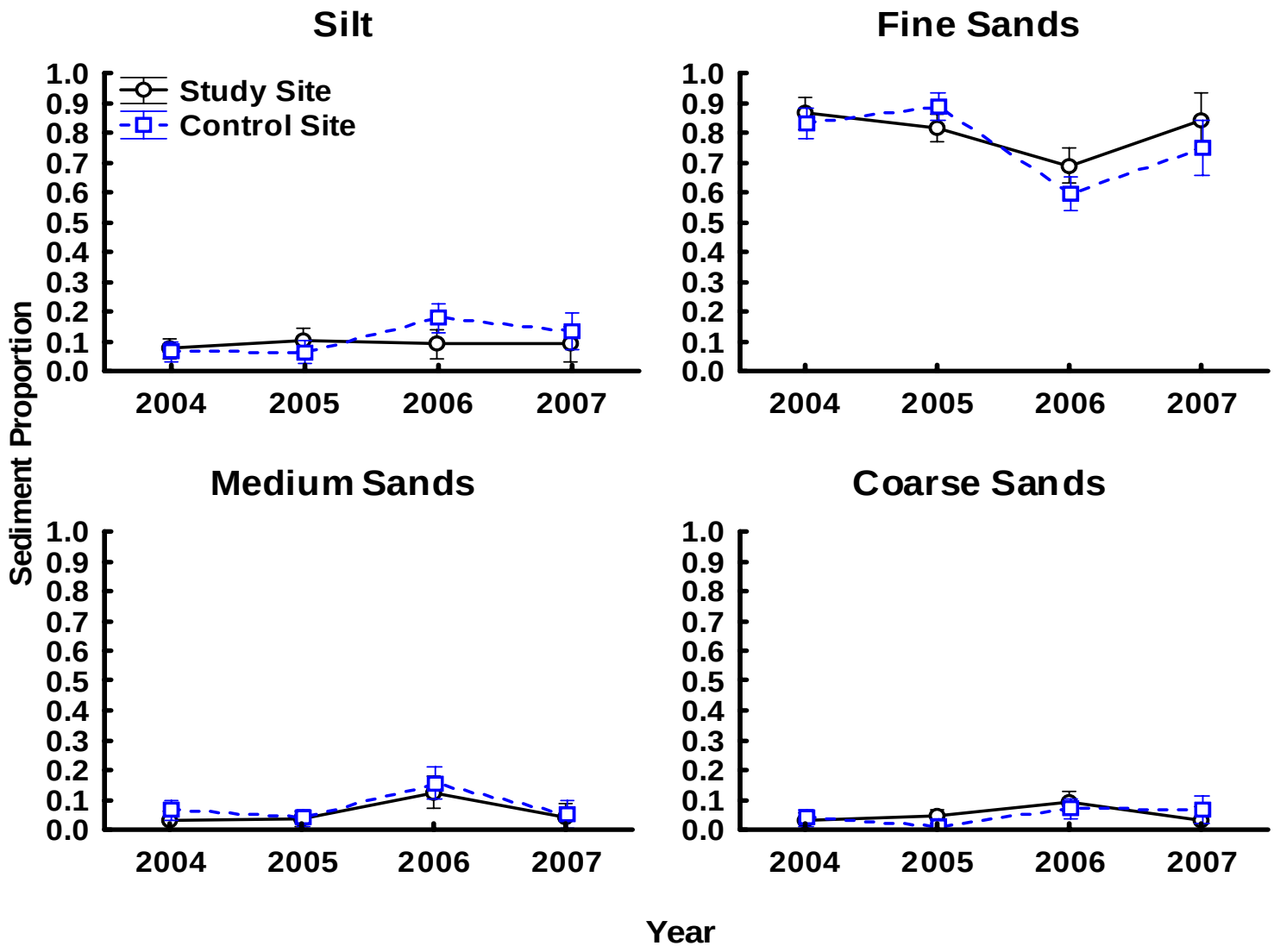

Figure 19. Average proportions of four sediment grain size classifications for all samples collected within each monitoring station by sampling event combination. Error bars are ± 1 standard deviation using the pooled variance across the treatments within each sampling period.

Discussion

Demersal Fish

The relative abundances of the dominant fish encountered in this study are similar to those found in other studies within San Diego Bay (Hoffman 1996, Merkel & Associates 1997, Allen 1999). CIQ Gobies and round stingrays are common demersal species found in San Diego Bay (Hoffman 1996, Merkel & Associates 1997, Allen 1999). Large numbers of round stingrays were captured with the otter trawl because they are common on unvegetated bottoms and the otter trawls were performed in deep water environments typically below the lower growth limit of eelgrass. CIQ gobies are common in nearly all soft-bottom habitats in San Diego Bay.

The large capture of specklefin midshipman in this study was in contradiction to previous work. Allen (1999) captured only 79 specklefin midshipman in 5 years of quarterly sampling throughout San Diego Bay. Differences in gear type could account for some of the discrepancy. Allen sampled with various gear types to produce a comprehensive data set for San Diego Bay. His otter trawl had 8-mm (0.3-in) mesh in the cod end. His beam trawl had a 2 mm (0.08 in) mesh in the cod end; however the beam trawl was only 1.6 m (5.2 ft) wide. The larger mesh in Allen's otter trawl meant it could have missed what were mostly juvenile fish encountered in this study. The smaller size of the beam trawl could have made it less effective at capturing fish than the otter trawl used in this study. Finally, variability could account for much of the discrepancy with regards to specklefin midshipman. Most of the specklefin midshipman (64%) captured in this study were captured in the 2004 sampling. Moreover, most of the specklefin midshipman captured in this study were juveniles with only 3% of the catch being larger than 5 cm (2 in).

The Dredge Project altered the density and community structure of demersal fish in the Study Site. Overall fish density was significantly lower at the Study Site relative to the Control Site during the 2005 sampling event, which occurred 5 months after the completion of dredging. During this same time period, the community similarity between the Study Site and the Control Site was the lowest of all sampled years. Thus, both the numbers of fish present at the Study Site and the relative abundance of the species present were altered by the Dredge Project.

Neither the absolute number of species captured nor species richness curves indicate significant trends in relation to the Dredge Project. Combined with the observations on community structure and density, this indicates that many of the same species were still present following the Dredge Project. This reinforces the point made above that the Dredge Project caused a decrease in fish abundance and relative abundances of the species present.

The Dredge Project had no discernable effect on the overall biomass of fish within the Study Site. The significant temporal trend observed was related to a decline in captured biomass during the final sampling year. The decline was noted at both the Control Site and the Study Site with no loss of biomass occurring in the sampling event following the Dredge Event.

The depression of fish abundance at the Study Site without a corresponding loss of biomass is contrary to what would be expected. This observation may be explained by variability in the data. It is possible that natural variability in the capture of large individuals obfuscates the

ability to discern any trends that might exist. This is supported by the relatively low statistical power calculated for the analysis of biomass data versus density data. Although *a priori* power analyses were performed to determine an appropriate sample size, the analyses were based on variability in fish density data during previous studies. It may have simply required more sampling to discern effects on fish biomass. However, it should be noted that the sampling for this project was viewed as rigorous and done to a point where one could argue that the sampling itself could have short-term impacts on the fish community. Finally, it could be that larger fish were less affected by the Dredge Project. Larger, wider-ranging fish may move in and out of the Study Site opportunistically. The capture of these larger fish then conceals the contribution of smaller fish because of the exponential relationship between size and mass.

The density and community level effects observed by the study were short in duration. The Dredge Project was initiated in October 2004 and was completed in April 2005. By the 2006 sampling event (September 2006), there were no discernable trends between fish density or fish community structure and the Dredge Project. Thus the maximum possible recovery time was 22 months. This estimate is very conservative as it uses the start date of the Dredge Project and the first sample date with no discernable effect on fish density. Using the Dredge Project completion date and the same post-dredge sampling would result in a recovery estimate of 16 months. Using the mid-point of the Dredge Project and assuming the recovery was mid-way between the 2005 and 2006 sampling events, recovery is estimated at 14 months. Without having sampled quarterly during the recovery period the best one can do is estimate the recovery time based on the information available. For management considerations it would be prudent to err on the side of caution and use the 22-month recovery estimate. However, actual recovery time was likely less than 18 months.

The observation that demersal fish abundance and community similarity was lowered following the Dredge Project fits with Carbines and Cole (2009) observations of decreased fish abundance and diversity in areas historically dredged for oysters. What wasn't possible in the Carbines and Cole study was determination of recovery since their system was still being actively dredged. It is unclear how the spatial and temporal scales of bottom disturbance from sediment dredging may affect fish communities. It is tempting to apply the intermediate disturbance hypothesis (Grime 1973, Connell 1978) and assume that some intermediate level of disturbance will produce a healthy and diverse fish community. However, such an application requires careful consideration of the disturbance scales. Given the scale of the Dredge Project within the larger context of San Diego Bay, it may be possible that occasional dredging on similar spatial scales may work to increase diversity within San Diego Bay. However, what isn't known is how the demersal fish fauna of San Diego Bay may already represent a historical disturbance regime. This historical disturbance regime may be significant relative to the natural disturbance regime and may actually mean that the current condition is one with reduced fish abundance and density relative to what might exist without anthropogenic disturbances such as dredging.

Epibenthic Invertebrates

The Dredge Project altered the epibenthic community at the Study Site. The Project area would have been stripped of epibenthic organisms. However, by the time of the first post-dredge sampling period, the numbers of epibenthic organisms present had surpassed those present prior to the Dredge Project. This trend continued into the second post-dredge year with large numbers

of epibenthic organisms being captured. One year later, the numbers of epibenthic organisms captured had returned to pre-dredge conditions. The relative stability of the Control Site over the sampling period indicates that these observations were the result of the Dredge Project. Following the Dredge Project, epibenthic organisms rapidly colonized bare bottom. The biomass data show that in the first year after the Dredge Project, the epibenthic community must have consisted of many juvenile individuals or species of lower biomass. This was still true in the second year following the Dredge Project because although the biomass was nearly identical between the Control and Study Sites, the Study Site had much greater density. In the final sampling year, the density and biomass of epibenthic organisms was similar across the Study and Control sites indicating that the numerical response had ended with competition and predation reducing the populations of epibenthic organisms at the Study Site. This observation is similar to those made for benthic invertebrate communities in other studies of dredge impacts (Lopez-Jamar and Mejuto 1988, van Dalfsen et al. 2000, Guerra-Garcia et al. 2005).

The community similarity indices calculated to compare the Control Site and Study Site do not show the Study Site returning to its pre-Dredge Project condition. The similarity between the two sites became more similar with each sampling event. The two sites were hardly similar in terms of community composition prior to the Dredge Project yet were very similar in the final sampling year. Given the trends observed in biomass and density, it would appear that the Study Site ultimately came to support similar numbers and biomass of epibenthic species to that observed before the Dredge Project, but the species composition of species was different. While it is not possible to determine the relevance of this observation, epibenthic communities are typically composed of r-selected species (sensu MacArthur and Wilson 1967). These species react quickly to open space and may persist if not displaced by other slower growing and longer lived species. It may simply be that these communities are dynamic and community patterns result from the timing and frequency of disturbances. The timing of the Dredge Event resulted in the production of a community similar to that at the Control Site, but given more time and a different disturbance regime, the outcome may have been different. It is also possible that the Study Site may continue to change.

The shapes of the epibenthic species richness curves indicate that many more species would be captured if sampling were expanded. Given the intensive sampling employed, this illustrates that the epibenthic communities are diverse and heterogeneously distributed across the bottom. Even when 47 species were encountered with over 6000 individuals captured at the Study Site in 2006, the shape of the species richness curve indicates that 5 or more additional species might be captured with the capture of another 2000 individuals.

Benthic Infauna

The Dredge Project had a negligible impact on the density and biomass of benthic infauna within the temporal scale of this study. The density and biomass of benthic infauna was consistent between the Study and Control Sites with the minor exception of invertebrate biomass in 2006 at the Study Site. Although the difference was not significant, the increase in biomass at the Study Site in 2006 may have been due to high recruitment in 2005 following the Dredge Project. The project would have resulted in a largely barren bottom following the dredging. Invertebrates rapidly colonized this open space such that there were no significant differences in biomass or density noted during the first sampling following the Dredge Project (2005 sampling). However,

this would have meant that there were a significant number of juveniles at the Study Site in 2005. The growth of these individuals may have resulted in the increase in biomass observed at the Study Site in 2006. Similar trends in density were not noted because competition and predation kept numbers in check while survivors grew. Further competition and maturation of the community resulted in a return to previous biomass levels by the end of the sampling program in 2007. Thus, the Dredge Project had a negligible effect on biomass and density of benthic infauna, but there appeared to be noticeable trends with regards to biomass as the community recovered. These observations are consistent with the observations made for epibenthic species except that the numerical response was not observed. It could have been that the response was brief and missed within the sampling scale of this study. This interpretation would fit with the observations of Guerra-Garcia et al. (2005) who observed peak infaunal abundance only 30 days after dredging and population decreases over the following 60 days.

While the overall density and biomass characterizing the benthic community was not significantly altered within the sampling timeline, there were noticeable effects on community composition. The Morisita's similarity index comparing the communities within the Study Site and the Control Site indicated that the two communities were similar in 2004 (pre-dredge). Moreover, family richness was similar between the two sites in 2004. Both of these metrics for comparing the composition of invertebrate communities between the Study and Control sites indicated that significant alteration of the benthic community at the Study Site occurred following the Dredge Project. In 2005, the community similarity dropped from a standardized 1.00 to 0.22. The expected number of families captured was also down 25 families in the Study Site relative to the Control Site. The consistent increase in community similarity in the years following the Dredge Project and the return similar captures of benthic families within 2 years of the Dredge Project indicate that the observed trends were real and related to the Dredge Project.

Community condition indices were calculated to determine level of disturbance based on community taxonomic structure. The RBI and BRI revealed no trends with regards to the Dredge Project. Had the Dredge Project affected either of these indices, there would be an increase in the indices post-dredge relative to the pre-dredge data. This was not apparent in the data. Both the RBI and BRI were within the reference condition for both sites in all sampling events. Moreover, for the BRI, the highest average index occurred within the Study Site in 2004, prior to dredging. The RBI fluctuated a bit more across years with the highest value occurring at the Control Site in 2007.

The IBI seemed to be the most sensitive benthic index relative to assigning low levels of disturbance to both the Control Site and the Study Site. However, like the RBI and BRI, the IBI did not display any trends across years indicating that the Dredge Project changed the disturbance regime of the Study Site. The IBI values at the Study Site were highest in 2007 and 2004 and indicated the presence of a low level of disturbance within the Study Site. In 2005 and 2006, lower IBI values were observed indicating a low level of disturbance, and reference conditions, respectively. IBI values at the Control Site alternated between reference conditions and low disturbance levels over the 4 years of the study.

It is interesting that community condition indices developed to assess condition relative to disturbance failed to illustrate the effects of a disturbance as disruptive as the Dredge Project.

This highlights the stochastic nature of benthic communities and their ability to recover following physical disturbance. Benthic communities are often found to exhibit high spatial and temporal variability. The community structure at any given time is likely dictated by the timing of and amount of time since the last disturbance. The burrowing and bottom disturbing activities of fishes and invertebrates, as well as predation, likely cause a patchwork of various community compositions across the larger landscape. Unless the Dredge Project had resulted in a different bottom-type following the dredging, the Dredge Project can be viewed as one single relatively severe event compared to normal levels of disturbance. However, the severity of the Dredge Project does not change the evolved response of benthic organisms to quickly capitalize on bare space. This is in opposition to stresses such as chronic pollution, which do not abate. In the case of pollution stress, the condition will continue to favor tolerant species while removing sensitive species. This will ensure higher calculations of community condition indices at polluted sites whereas physically disturbed sites may only be recognized as outside the reference range during a narrow temporal window.

From the data, it is apparent that the benthic invertebrate community recovered quickly following the Dredge Project. Biomass and density were not noticeably affected during the sampling event that occurred five months following the completion of the Dredge Project. Community composition at the level of family recovered to pre-Dredge Project conditions between 17 and 24 months following completion of the Dredge Project. Although the benthic invertebrate community composition was impacted to some degree following the Dredge Project, the transitional communities that formed following the Dredge Project were generally structured within the limits for reference conditions established by SCCWRP.

The observed trends with regards to declines in benthic and epibenthic fauna are not believed to be associated with changes in TOC or sediment grain size characteristics. These physical parameters were not observed to change with regards to the Dredge Project on the sampling scale employed in this study. The nature of the Dredge Project meant that some pre-dredge material was likely available to slump into pits made by the clamshell dredge. This slumped material would have brought organic carbon and non-dredged sediment into the created pits. Although the dredge removed organic carbon, biological and importation mechanisms likely resulted in rapid recovery of TOC. Sediment grain size was likely maintained by slumping and the shallow cut of the dredge project, which did not penetrate deeply enough to encounter sediments of significantly different grain size distribution. Although there were some shifts in grain size distribution relative to the sites in 2006, these changes are arguable minor in terms of biological effects, and are not explainable relative to the Dredge Project.

Conclusions

The Dredge Project would have had an immediate and noticeable impact to the available density and biomass of demersal fish, epibenthic invertebrates and benthic infauna within the Study Site. The dredging activities would have removed all epibenthic and benthic invertebrates encountered by the clamshell with the exception of those that fell free while the clamshell was being lifted. Some demersal fish would have been removed by the dredging and others would have fled the immediate area due to dredging activities. It is not possible to know the overall short-term impacts to demersal fish communities, but there was likely some balance of positive and negative impacts. Many remaining invertebrate prey items would likely have been left damaged

and exposed to be preyed upon by remaining demersal fish. However, the removal of most of the invertebrate community would mean a significant alteration of the food chain supporting most demersal fish. Thus, the Study Site likely existed in a state of flux with recently dredged areas attracting demersal fish to exposed prey items while areas with greater time from impact were underutilized while the invertebrate prey base recovered.

While it is not possible to know for certain what the communities looked like during the Dredge Project or during the period between the Dredge Project and the first post-dredge sampling, recovery of biomass and density at the levels sampled was rapid. Fish biomass at the Study Site was not observed to be altered relative to the Control Site. Fish density was depressed in the sampling event following the Dredge Project and community similarity between the Study Site and the Control Site was lowest following the Dredge Project. The results of this study support illustrate that there were short-term impacts to the demersal fish community at the Study Site. The fish community took between 14 and 22 months to recover following the Dredge Project.

The epibenthic community showed the slowest response of the communities sampled. Density and biomass of organisms in the epibenthic community recovered within 35 months of initiation of the dredge event. Using the end time of the Dredge Project would mean recovery occurred within 29 months. However, the Dredge Project altered the community. The numerical response observed suggested that the community had stabilized with a different configuration than that before the Dredge Project. It is not known whether or not the community continued to slowly change over time or if it came to rest at an alternate stable state.

Within 5 months of the completion of the Dredge Project and 11 months from the beginning of the Dredge Project the density and biomass of the benthic community was similar to the pre-dredge condition and the control site. The benthic community composition based on multiple metrics indicated that the Study Site returned to its pre-dredge condition somewhere between 17 and 24 months after the Dredge Project.

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Appendix 1

Additional Figures and Tables

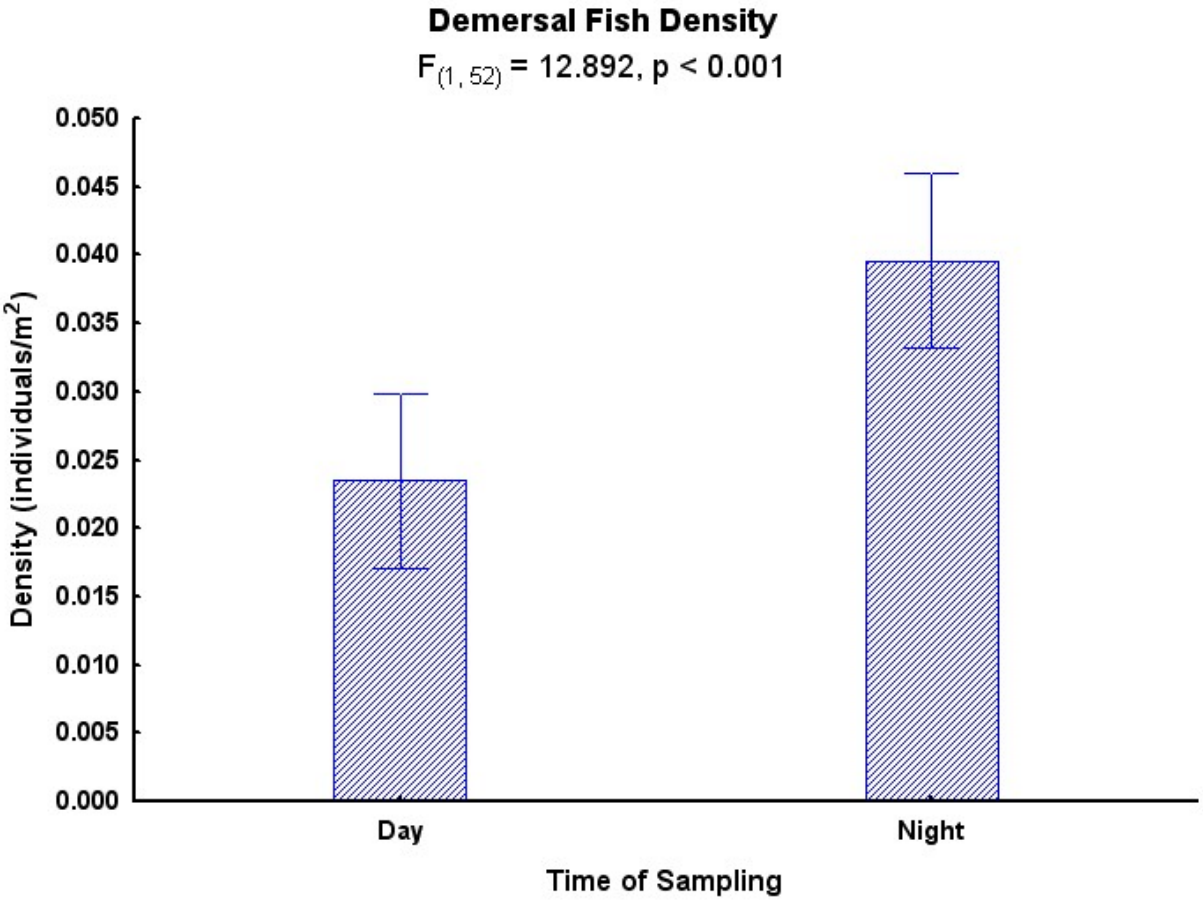

Figure A1-1. Average fish density for all species of demersal fish captured at day and night. Error bars are ± 1 standard deviation using the pooled variance of the time of day factor from the ANOVA model.

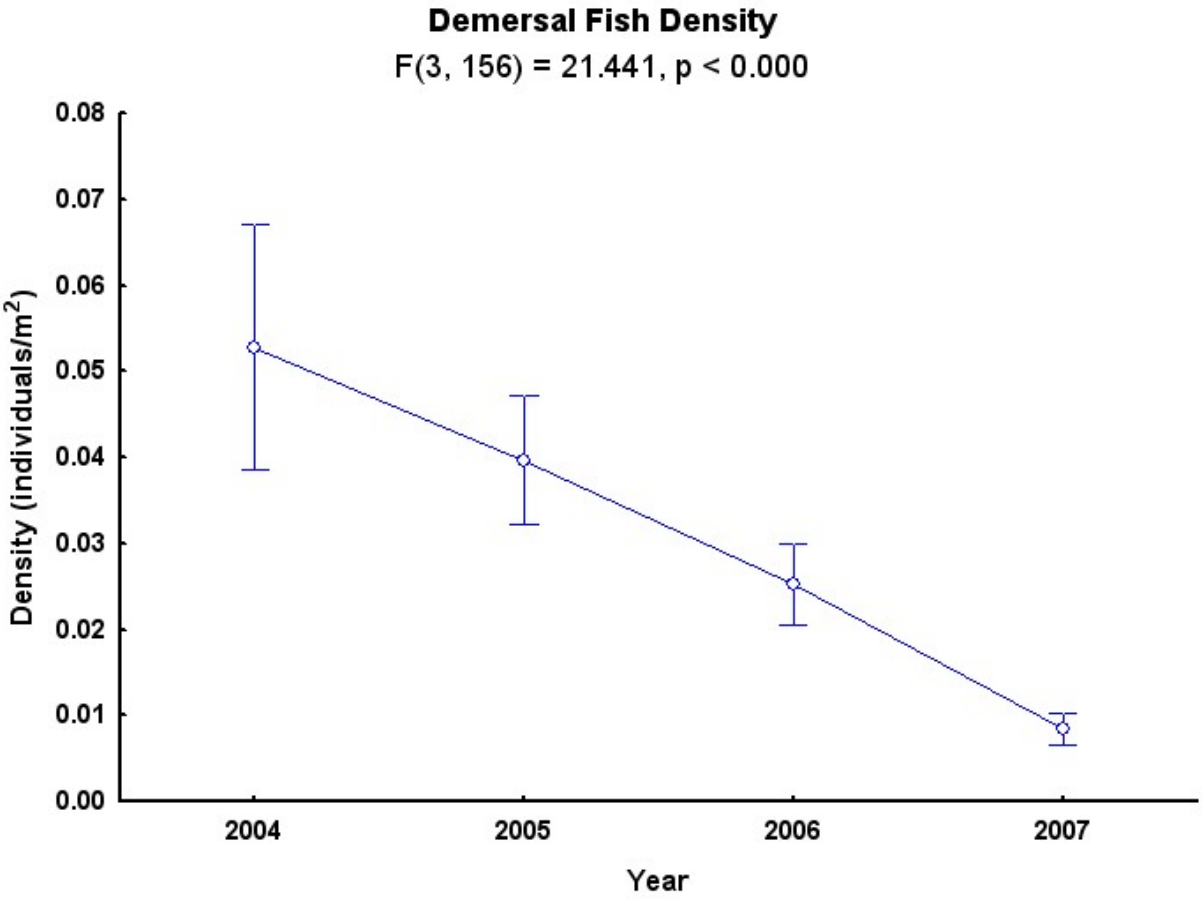

Figure A1-2. Average fish density for all species of demersal fish captured during each sampling period (year). Error bars are ± 1 standard deviation using the pooled variance of all data within each repeated measure (year).

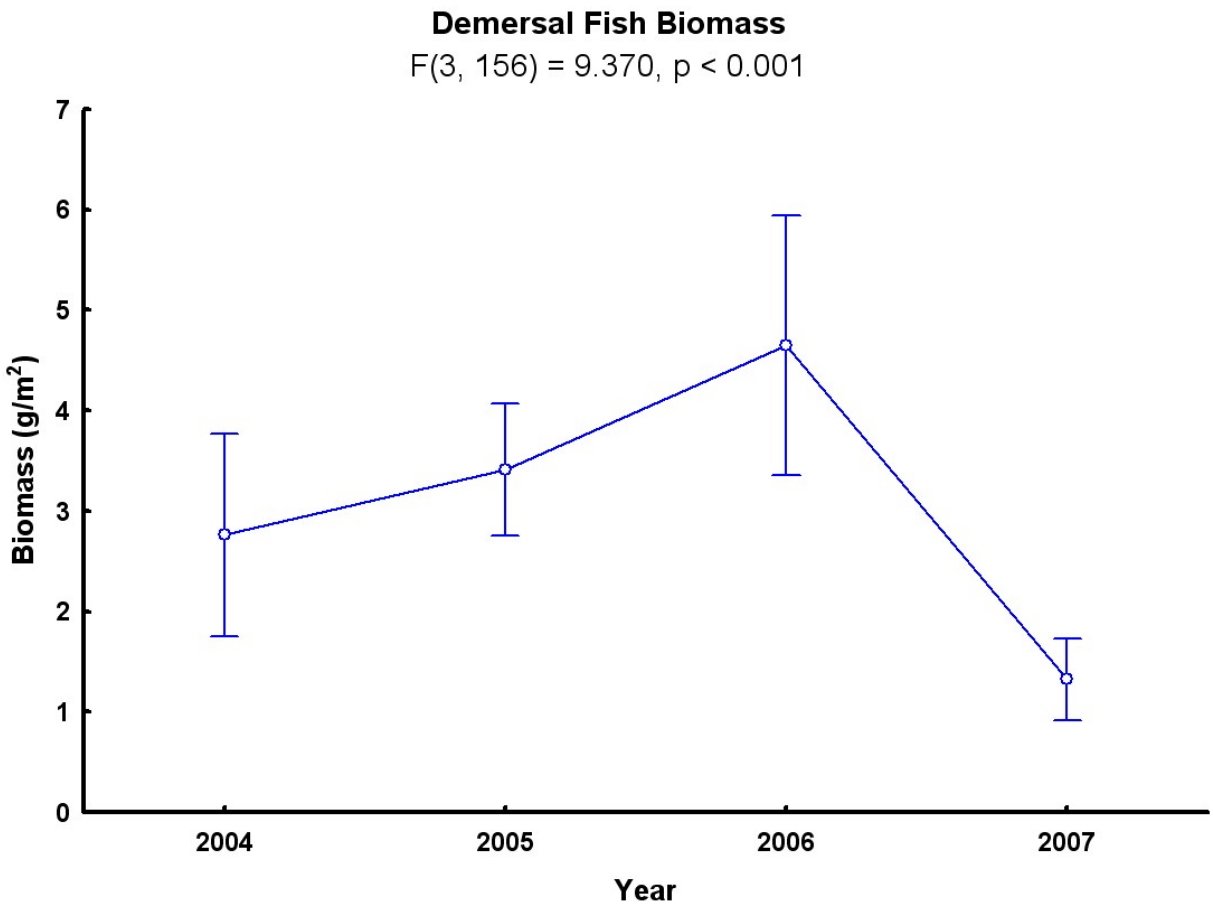

Figure A1-3. Average fish biomass for all species of demersal fish captured during each sampling period (year). Error bars are ± 1 standard deviation using the pooled variance of all data within each repeated measure (year).

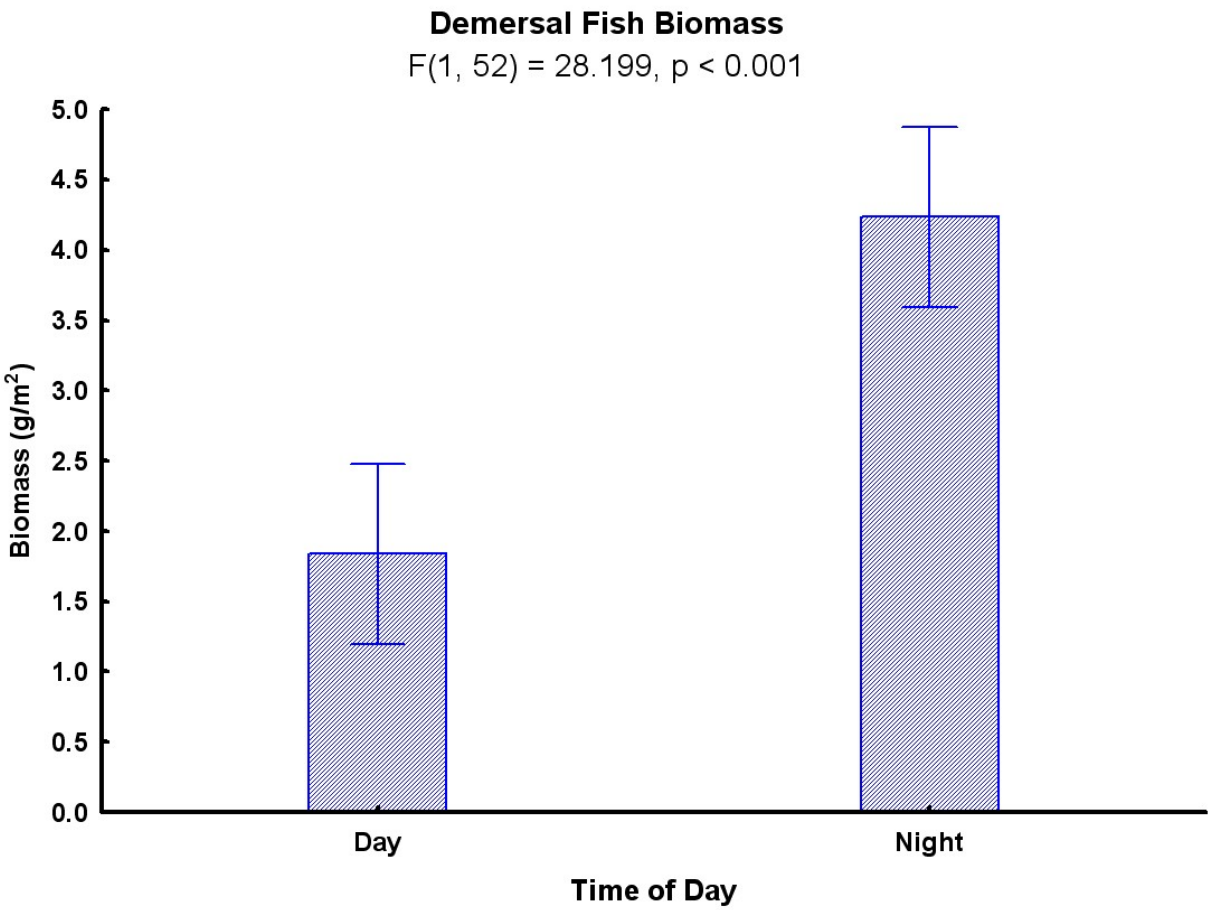

Figure A1-4. Average fish biomass for all species of demersal fish captured at day and night. Error bars are ± 1 standard deviation using the pooled variance of the time of day factor from the ANOVA model.

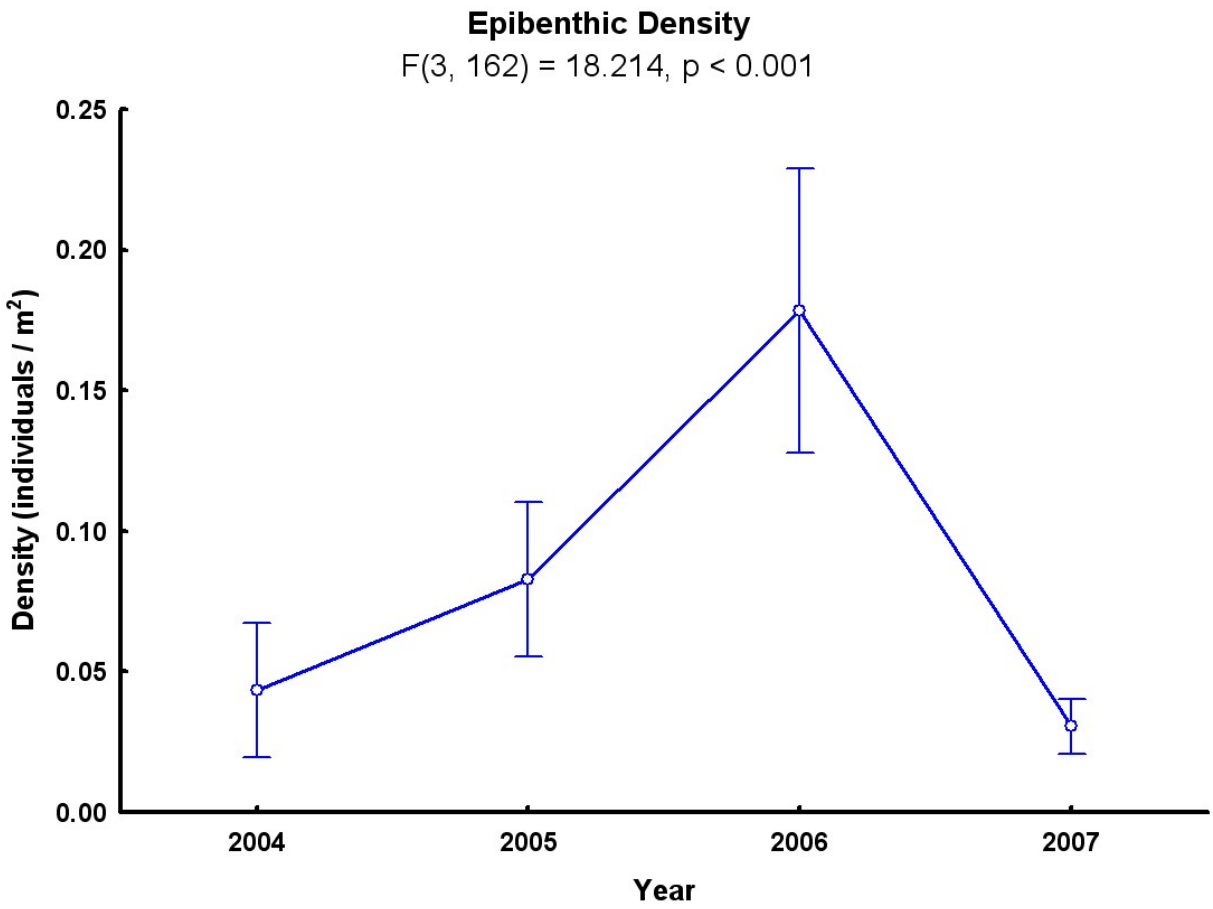

Figure A1-5. Average epibenthic density for all invertebrate species captured during each sampling period (year). Error bars are ± 1 standard deviation using the pooled variance of all data within each repeated measure (year).

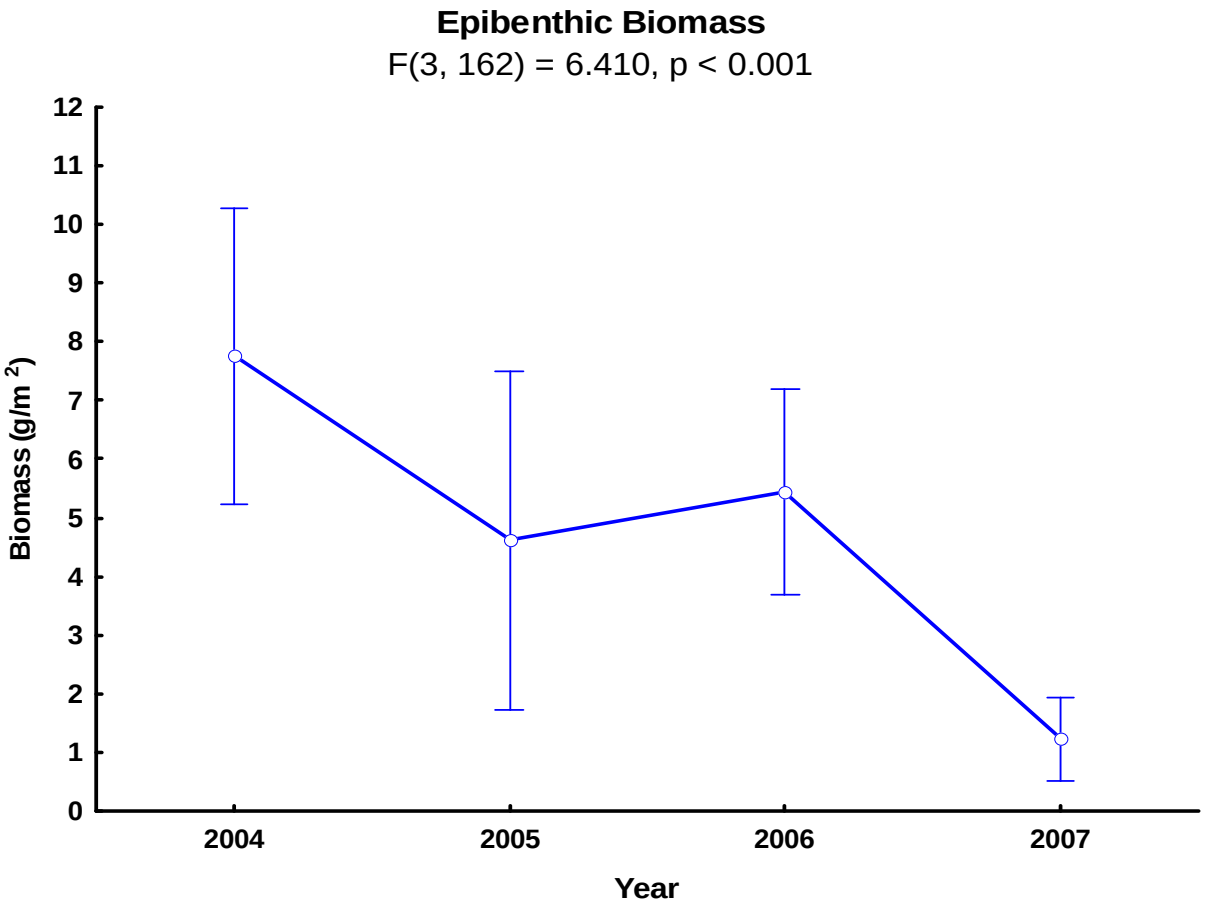

Figure A1-6. Average epibenthic biomass for all invertebrate species captured during each sampling period (year). Error bars are ± 1 standard deviation using the pooled variance of all data within each repeated measure (year).

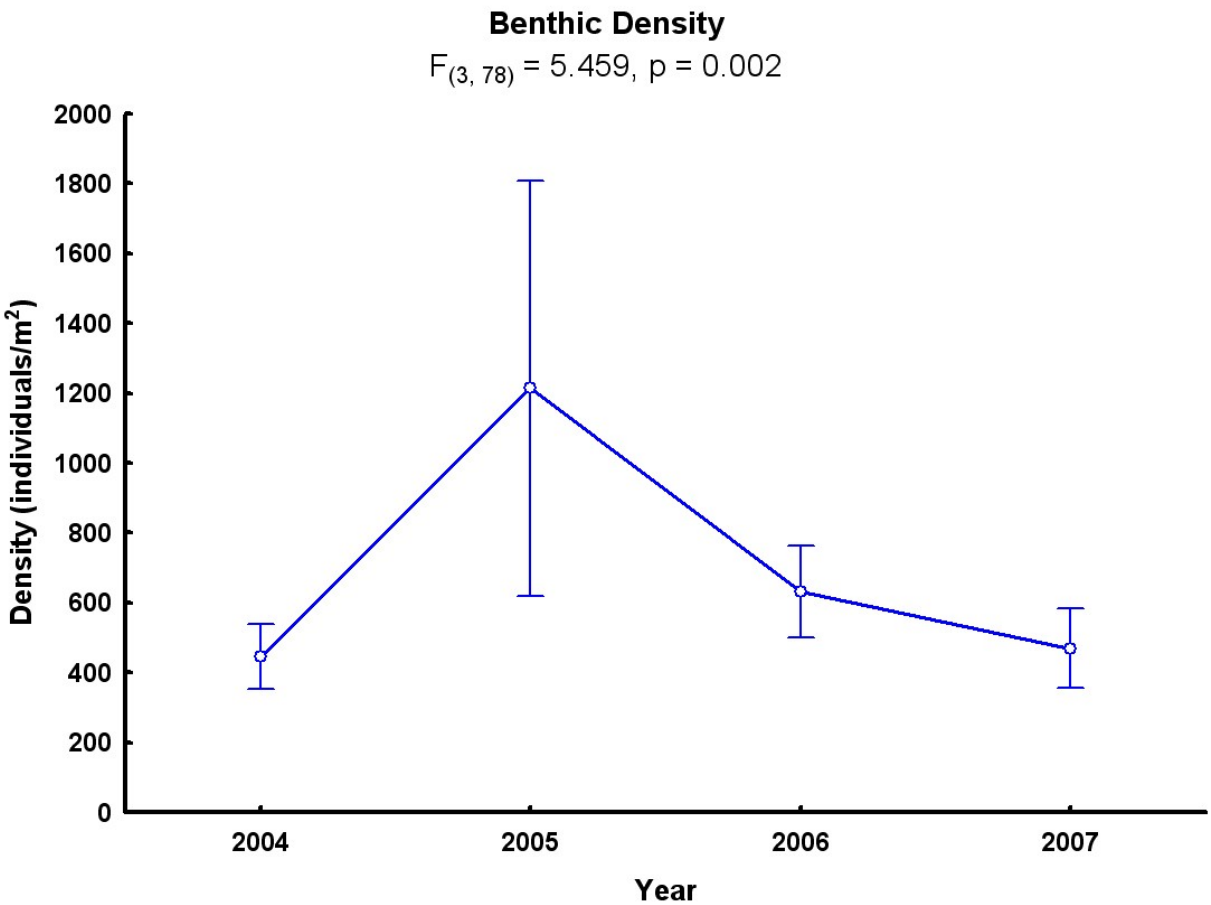

Figure A1-7. Average density for all benthic invertebrate species captured during each sampling period (year). Error bars are ± 1 standard deviation using the pooled variance of all data within each repeated measure (year).

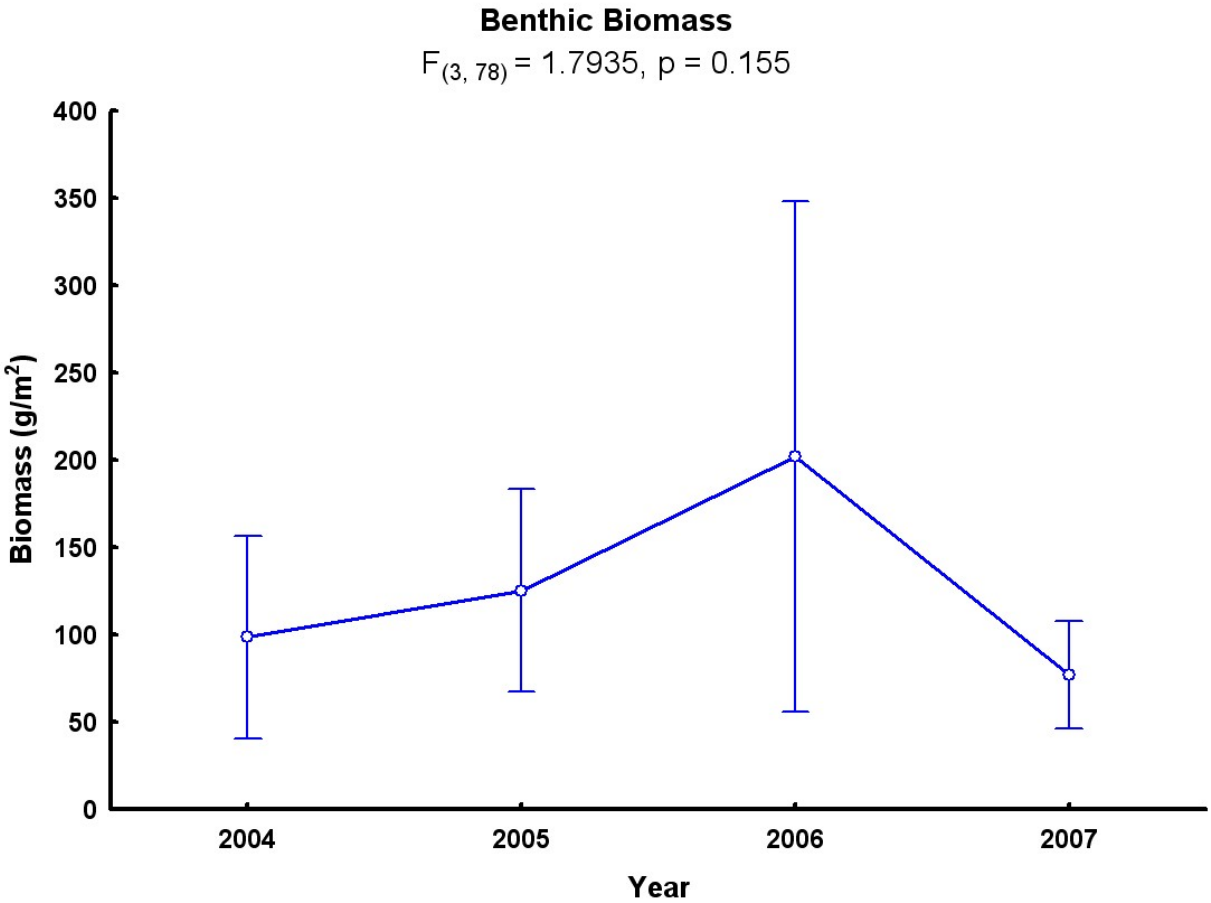

Figure A1-8. Average biomass for all benthic invertebrate species captured during each sampling period (year). Error bars are ± 1 standard deviation using the pooled variance of all data within each repeated measure (year).

Table A1-1. Repeated measures analysis of variance for the density of all captured fish (top) and all fish captured following the Dredging Project (bottom). Statistical significance and power calculations based on α of 0.05.

Demersal Fish Density

Model Term	Degrees of Freedom	MS	F	p	Power
Treatment	1	0.004	3.191	0.080	0.418
Time of Day	1	0.015	12.892	**0.001**	0.941
Treatment*Time of Day	1	0.001	0.971	0.329	0.162
Error I	52	0.001			
Year	3	0.020	21.441	**0.000**	1.000
Year*Treatment	3	0.001	0.952	0.417	0.257
Year*Time of Day	3	0.004	4.083	**0.008**	0.838
Year*Treatment*Time of Day	3	0.002	2.312	0.078	0.573
Error II	156	0.001			

Demersal Fish Density - Post Dredge

Model Term	Degrees of Freedom	MS	F	p	Power
Treatment	1	0.003	6.746	**0.012**	0.722
Time of Day	1	0.004	8.322	**0.006**	0.808
Treatment*Time of Day	1	0.000	0.169	0.683	0.069
Error I	52	0.000			
Year	2	0.014	41.102	**0.000**	1.000
Year*Treatment	2	0.001	3.986	**0.021**	0.703
Year*Time of Day	2	0.002	6.581	**0.002**	0.903
Year*Treatment*Time of Day	2	0.003	7.522	**0.001**	0.938
Error II	104	0.000			

Table A1-2. Repeated measures analysis of variance for the biomass of all fish captured during the study. Statistical significance and power calculations based on α of 0.05.

Overall Demersal Fish Biomass

Model Term	Degrees of Freedom	MS	F	p	Power
Treatment	1	0.008	0.001	0.979	0.050
Time of Day	1	322.201	28.199	**0.000**	0.999
Treatment*Time of Day	1	5.519	0.483	0.490	0.105
Error I	52	11.426			
Year	3	107.617	9.370	**0.000**	0.997
Year*Treatment	3	23.510	2.047	0.110	0.517
Year*Time of Day	3	56.159	4.889	**0.003**	0.903
Year*Treatment*Time of Day	3	35.355	3.078	**0.029**	0.712
Error II	156	11.486			

Table A1-3. Repeated measures analysis of variance for epibenthic invertebrates captured during the study. Colonial organisms and sponges were excluded from epibenthic analysis.

Epibenthic Density					
Model Term	**Degrees of Freedom**	**MS**	**F**	**p**	**Power**
Treatment	1	0.437	31.413	**0.000**	1.000
Error I	54	0.014			
Year	3	0.250	18.214	**0.000**	1.000
Year*Treatment	3	0.164	11.958	**0.000**	1.000
Error II	162	0.014			

Table A1-4. Repeated measures analysis of variance for the biomass of all epibenthic invertebrates captured during the study. Statistical significance and power calculations based on α of 0.05.

Overall Epibenthic Biomass					
Model Term	**Degrees of Freedom**	**MS**	**F**	**p**	**Power**
Treatment	1	182.98	2.86	0.096	0.383
Error I	54	63.88			
Year	3	407.82	6.41	**0.000**	0.966
Year*Treatment	3	188.88	2.97	**0.034**	0.695
Error II	162	63.62			

Table A1-5. Repeated measures analysis of variance of benthic invertebrate densities measured during the study.

Overall Benthic Density					
Model Term	**Degrees of Freedom**	**MS**	**F**	**p**	**Power**
Treatment	1	681252.009	1.095	0.305	0.172
Error I	26	621935.295			
Year	3	3604052.890	5.459	**0.002**	0.927
Year*Treatment	3	58106.580	0.088	0.966	0.065
Error II	78	660189.972			

Table A1-6. Repeated measures analysis of variance for the biomass of benthic invertebrates captured during the study.

Overall Benthic Biomass					
Model Term	**Degrees of Freedom**	**MS**	**F**	**p**	**Power**
Treatment	1	188915.026	3.532	0.071	0.440
Error I	26	53483.713			
Year	3	83275.813	1.794	0.155	0.450
Year*Treatment	3	84869.963	1.828	0.149	0.458
Error II	78	46431.059			

Table A1-7. Repeated measures analysis of variance for the measurement of total organic carbon.

Total Organic Carbon					
Model Term	**Degrees of Freedom**	**MS**	**F**	**p**	**Power**
Treatment	1	0.866	3.505	0.073	0.435
Error I	24	0.247			
Year	3	2.111	9.841	**0.000**	0.997
Year*Treatment	3	0.134	0.626	0.601	0.175
Error II	72	0.215			

Table A1-8. Repeated measures analysis of variance for the measurement of four grain size categories from samples collected at each benthic monitoring station.

Grain Size - Silt

Model Term	Degrees of Freedom	MS	F	p	Power
Treatment	1	0.010	1.431	0.242	0.211
Error I	26	0.007			
Year	3	0.023	3.169	**0.029**	0.714
Year*Treatment	3	0.023	3.186	**0.028**	0.716
Error II	78	0.007			

Grain Size - Fine Sands

Model Term	Degrees of Freedom	MS	F	p	Power
Treatment	1	0.037	2.683	0.113	0.351
Error I	26	0.014			
Year	3	0.266	19.040	**0.000**	1.000
Year*Treatment	3	0.041	2.906	**0.040**	0.672
Error II	78	0.014			

Grain Size - Medium Sands

Model Term	Degrees of Freedom	MS	F	p	Power
Treatment	1	0.010	1.154	0.293	0.179
Error I	26	0.009			
Year	3	0.066	15.351	**0.000**	1.000
Year*Treatment	3	0.002	0.385	0.764	0.123
Error II	78	0.004			

Grain Size - Coarse Sands

Model Term	Degrees of Freedom	MS	F	p	Power
Treatment	1	0.000	0.029	0.866	0.053
Error I	26	0.003			
Year	3	0.016	3.782	**0.014**	0.795
Year*Treatment	3	0.007	1.742	0.165	0.438
Error II	78	0.004			

Appendix 2

Benthic Taxonomic Data

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Mollusca	Cylichnidae	Acteocina culcitella	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina harpa	2004	0	2	0	0	0	4	2	0	0	6	0	2	2	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	18	5
Mollusca	Cylichnidae	Acteocina inculta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Aeolidiidae	Aeolioda	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Aglajidae	Aglaja ocelligera	2004	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Columbellidae	Alia carinata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pectinidae	Argopecten ventricosus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Thraciidae	Asthenothaerus diegensis	2004	2	1	0	8	9	4	8	0	2	3	1	9	4	0	0	0	2	0	2	3	1	1	6	4	5	0	1	4	51	29
Mollusca	Columbellidae	Astyris aurantiaca	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina culcitella	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Mollusca	Cylichnidae	Acteocina inculta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca		Bivalva	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Gadilidae	Cadulus aberrans	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Caecidae	Caecum californicum	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Calyptraeidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Chione sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Chione californiensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	5	0	1	0	2	2	1	4	1	0	0	21
Mollusca	Columbellidae	Columbellidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Conidae	Conus californicus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Petricolidae	Cooperella subdiaphana	2004	0	1	1	0	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	4	2
Mollusca	Corbulidae	Corbula porcella	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Crepidula sp	2004	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	82	2	0	0	0	0	8	4	3	4	99
Mollusca	Calyptraeidae	Crepidula onyx	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Crepipatella dorsata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Crucibulum spinosum	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Myidae	Cryptomya californica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Semelidae	Cumingia californica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Cylichna diegnsis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Diplodontidae	Diplodonta sp	2004	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3	1	7
Mollusca	Diplodontidae	Diplodonta orbella	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Diplodontidae	Diplodonta sericata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Dotoidae	Doto sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Epitoniidae	Epitonium sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Epitoniidae	Epitonium hindsii	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca		Gastropoda	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Hiatellidae	Hiatella arctica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Kellia suborbicularis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Conidae	Kurtziella plumbea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cardiidae	Laevicardium substriatum	2004	2	1	1	7	0	2	1	0	0	6	6	4	3	2	0	0	0	6	2	0	0	0	0	0	2	0	0	0	35	10
Mollusca	Lasaeidae	Lasaea adansoni	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tellinidae	Leporimetis obesa	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pectinidae	Leptopecten latiauratus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lucinidae	Lucinisca nuttalli	2004	0	0	0	2	1	1	3	0	0	2	0	0	0	1	0	0	12	0	0	1	0	1	0	0	0	2	0	0	10	16
Mollusca	Lyonsidae	Lyonsia californica	2004	0	0	0	1	2	0	2	0	0	0	1	0	3	0	15	7	0	19	13	3	0	8	29	3	1	2	2	6	9	108
Mollusca	Tellinidae	Macoma sp	2004	0	2	0	5	9	0	8	2	8	1	4	5	3	0	0	0	1	2	1	0	0	1	0	0	2	0	1	0	47	8
Mollusca	Tellinidae	Macoma yoldiformis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Mactridae	Mactroma californica	2004	0	0	0	0	2	0	1	0	2	0	1	1	3	0	0	0	0	0	0	0	3	3	0	0	0	0	0	0	10	6
Mollusca	Aglajidae	Melanochlamys diomedea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca		Modiolinae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Mytilidae	Modiolus neglectus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Mytilidae	Musculista senhousia	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	1	27	0	36	8	8	2	0	4	0	0	2	0	100
Mollusca	Mytilidae	Mytilus sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Nassariidae	Nassarius perpinguis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Neoleptonidae	Neolepton salmonea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Mollusca	Muricidae	Ocinebrina barbarensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pyramidellidae	Odostomia sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Olividae	Olivella baetica	2004	0	0	0	0	0	0	1	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Mollusca	Conidae	Ophiodermella inermis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Ostreidae	Ostrea conchaphila	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Mollusca	Ostreidae	Ostreidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lucinidae	Parvilucina tenuisculpta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Philinidae	Philine sp	2004	0	1	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Mollusca	Philinidae	Philine auriformis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pectinidae	Pectinidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Periplomatidae	Periploma discus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Periplomatidae	Periploma planiusculum	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cystiscidae	Plesiocystiscus politulus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Eulimidae	Polygireulima rutila	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Protothaca sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Protothaca staminea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Protothaca tenerrima	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Muricidae	Pteropura festiva	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Mollusca	Acteonidae	Rictaxis punctocaelatus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia coani	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia compressa	2004	0	0	0	1	3	2	2	0	7	1	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	0
Mollusca	Lasaeidae	Rochefortia grippi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia tumida	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Saxidomus nuttalli	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Mollusca		Scaphopoda	2004	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Solenidae	Solen sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Solenidae		2004	3	1	1	0	1	0	0	0	1	0	0	0	2	0	1	0	0	0	2	0	3	3	3	2	3	0	0	0	9	17
Mollusca	Solenidae	Solen rostriformis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Psammobiidae	Tagelus sp	2004	5	10	5	22	12	10	10	0	5	3	4	19	20	14	3	5	1	16	12	10	0	3	15	9	5	4	5	17	139	105
Mollusca	Psammobiidae	Tagelus subteres	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tellinidae	Tellina meropsis	2004	0	0	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Mollusca	Tellinidae	Tellina modesta	2004	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2	1
Mollusca	Tellinidae	Tellinidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Semelidae	Theora lubrica	2004	19	5	1	11	16	0	0	0	0	0	0	0	3	0	0	17	2	2	0	1	0	36	1	1	1	0	1	0	55	62
Mollusca	Thraciidae	Thraciidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tritoniidae	Tritonia diomedea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pyramidellidae	Turbonilla sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pyramidellidae	Turbonilla sp SD1	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Veneridae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachiopoda	Lingulidae	Glottidia albida	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachiopoda	Lingulidae	Glottidia albida	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Cionidae	Ciona sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Molgulidae	Molgula sp	2004	0	0	0	1	0	0	0	0	0	0	0	19	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	21	3
Chordata	Molgulidae	Molgula sp SD1	2004	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Chordata	Molgulidae	Molgula verrucifera	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Chordata	Molgulidae	Molgula verrucifera	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Pyuridae	Microcosmus sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Chordata	Styelidae	Styela coriacea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Chordata		Ascidiacea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Actiniidae	Actinaria	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	1	0	0	0	0	0	0	0	6
Cnidaria	Cerianthidae	Ceriantharia	2004	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4	0	0	14	0	0	0	3	0	1	0	2	22
Cnidaria	Corymorphidae	Corymorpha palma	2004	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	1	0	0	0	0	0	0	1	2	0	0	0	4	4
Cnidaria	Edwardsiidae	Edwardsis sp G	2004	0	0	0	86	0	0	3	0	2	25	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	14	116	18
Cnidaria	Edwardsiidae	Edwardsiidae	2004	210	4	14	0	34	50	0	0	0	0	3	19	3	0	7	0	0	0	1	0	0	3	21	7	0	0	0	0	337	39

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Cnidaria	Virgulariidae	Virgularia californica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Acanthoptilum sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Cnidaria	Virgulariidae	Stylatula elongata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Virgilariidae	2004	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Cnidaria	Virgulariidae	Virgularia agassizii	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Stylatula sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria		Anthozoa	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Cnidaria		Cnidaria	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Cnidaria	Gonactiniidae	Gonactinia prolifera	2004	0	210	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	0
Echiura	Urechidae	Urechis caupo	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nematoda		Nematoda	2004	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Nemertea	Amphiphoridae	Amphiphoridae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Amphiphoridae	Zygonemertes sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Carinomidae	Carinoma mutabilis	2004	7	0	0	0	0	0	3	0	0	6	0	0	0	0	3	0	2	0	4	0	1	1	1	1	0	5	0	0	16	18
Nemertea	Emplectonematidae	Paranemertes californica	2004	0	0	6	10	7	8	0	6	0	1	6	2	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	51	1
Nemertea	Lineidae	Cerebratulus californiensis	2004	0	0	3	0	1	1	1	1	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Nemertea	Lineidae	Cerebratulus sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Lineidae	2004	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	2
Nemertea	Lineidae	Micrura alaskensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Micrura wilsoni	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Tublanidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Nemertea	Tubulanidae	Tubulanus cingulatus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Tubulanus nothus	2004	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Nemertea	Tubulanidae	Tubulanus polymorphus	2004	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	1
Nemertea	Tubulanidae	Tubulanus sp SD1	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Palaeonemertea sp	2004	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Nemertea		Anopla	2004	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	2	2
Nemertea		ORDER - Heteronemertea	2004	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	1
Nemertea		Nemertea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Nemertea		Enopla	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phorona	Phoronidae		2004	1	7	2	0	2	18	0	2	0	0	4	0	0	3	9	17	0	0	0	1	0	4	1	5	0	0	0	0	39	37
Phorona	Phoronidae	Phoronis sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6
Phorona	Phoronidae	Phoronopsis sp	2004	0	0	0	3	0	0	6	0	0	0	0	0	0	0	0	0	5	0	0	2	0	0	0	0	0	0	0	0	9	7
Platyhelminthes	Latocestidae	Latocestidae sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes	Stylochoplanidae	Stylochoplana sp	2004	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	0	0	0	0	0	0	0	0	2	4
Platyhelminthes		ORDER - Polycladida	2004	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Sipuncula	Golfingiidae	Thysanocardia nigra	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Echinodermata	Amphiuridae		2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Amphiuridae	Amphipholis squamata	2004	0	3	0	0	0	6	1	0	2	2	0	1	1	0	0	1	12	2	0	6	18	1	1	0	5	24	13	5	16	88
Echinodermata	Amphiuridae	Aphiodia urtica	2004	1	0	1	1	0	1	0	0	0	2	2	2	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	11	1
Echinodermata	Amphiuridae	Aphiodia sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Amphiuridae	Aphiodia psara	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Synaptidae	Leptosynapta sp	2004	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Mysidae	Alienacanthomysis macropsis	2004	0	0	10	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Arthropoda	Alpheidae	Alpheidae (juv/damaged)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Arthropoda	Alpheidae	Alpheus californiensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	4
Arthropoda	Anthuridae	Amakusanthura californiensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Oedicerotidae	Americhelidium sp SD4	2004	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0	1	0	1	0	2	7
Arthropoda	Ammotheidae	Ammothea hilgendorfi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca agassizi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca brachycladus	2004	3	0	52	8	5	3	5	17	55	3	9	4	1	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	165	4
Arthropoda	Ampeliscidae	Ampelisca cristata	2004	5	7	55	35	14	0	7	3	51	17	17	16	40	1	0	0	0	0	0	0	0	0	1	5	1	0	0	0	268	7
Arthropoda	Ampeliscidae	Ampelisca cristata microdentata	2004	18	14	40	22	0	6	8	0	29	16	6	15	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191	0
Arthropoda	Ampeliscidae	Ampelisca lobata	2004	0	37	1	0	0	0	5	0	0	0	0	0	0	0	0	2	0	0	0	6	0	2	0	0	0	0	0	0	43	10

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Ampeliscidae	Ampelisca milleri	2004	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Ampeliscidae	Ampelisca romigi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca sp	2004	0	0	1	3	0	0	1	0	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	8	1
Arthropoda	Gammaridae	Amphideutopus oculatus	2004	32	10	23	65	26	33	17	0	0	17	22	57	36	1	6	27	0	7	25	2	28	1	57	20	59	0	1	2	339	235
Arthropoda	Ampithoidae	Ampithoe cf laceratosa	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxichilidiidae	Anoplodactylus erectus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxichilidiidae	Anoplodactylus viridintestinales	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Amphilochidae	Apolochus barnardi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Amphilochidae	Apolochus picadurus	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	1	3
Arthropoda	Gelechiidae	Aruga holmesi	2004	0	2	0	0	2	1	5	0	0	1	2	0	0	10	0	0	1	1	0	9	0	10	0	1	2	0	0	1	23	25
Arthropoda	Cylindroleberididae	Asteropella slatteryi	2004	1	1	0	2	0	5	0	0	1	1	1	1	4	1	0	1	0	1	1	1	2	2	0	1	1	0	0	1	18	11
Arthropoda	Alpheidae	Betaeus ensenadensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Alpheidae	Betaeus longidactylus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Arthropoda	Alpheidae	Betaeus sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Brachyura	2004	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda		Calanoida (copepod)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Arthropoda	Nannastacidae	Campylaspis cf rurbromaculata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella ? Angusta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella cf andreae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella californica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Arthropoda	Caprellidae	Caprella mendax	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella penantis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Arthropoda	Caprellidae	Caprellidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Caridea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprellidae sp SDBay 1	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ischyroceridae	Cerapus tubularis Cmplx	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Colomastigidae	Colomastix sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Corophioidea	2004	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Crangonidae	Crangon alaskensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Crangonidae	Crangon sp	2004	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Oedicerotidae	Deflexilodes enigmaticus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Podoceridae	Dulichia sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Melitidae	Dulichiella spinosa	2004	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Gammaridae	Elasmopus rapax	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Eobrolgus chumashi	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	1	0	1	0	5	2
Arthropoda	Ischyroceridae	Ericthonius brasiliensis	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	1	4
Arthropoda	Philomedidae	Euphilomdedes carcharodonta	2004	1	0	0	3	2	0	2	1	6	1	2	0	2	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	20	3
Arthropoda	Phoxocephalidae	Foxiphalus golfensis	2004	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Isaeidae	Gammaropsis thompsoni	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Megaluropidae	Gibberosus cf falciformes	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Arthropoda	Corophiidae	Grandidierella japonica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	3	0	0	0	0	0	0	0	9
Arthropoda	Grapsidae	Grapsidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Anthuridae	Haliophasma geminatum	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Oedicerotidae	Hartmanodes hartmanae	2004	0	2	0	1	0	1	1	1	1	1	1	3	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	12	3
Arthropoda	Phtiscidae	Hemiproto sp A	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Mysidae	Heteromysis odontops	2004	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	0	0	2	4
Arthropoda	Phoxocephalidae	Heterophoxus ellisa	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Heterophoxus oculatus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Hertophoxus sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Hertophoxus sp (p)	2004	13	1	0	6	3	1	0	0	0	0	1	0	0	0	13	0	77	4	0	5	15	24	1	0	2	5	0	1	25	147
Arthropoda	Serolidae	Heteroserolis carinata	2004	0	0	0	0	2	5	2	0	1	3	1	6	0	0	0	0	0	0	0	2	3	1	0	1	5	0	0	0	20	12
Arthropoda	Hippolytidae	Hippolytidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Lysianassidae	Hippomedon sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Arthropoda	Lysianassidae	Hippomedon zetesimus	2004	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Melphidippidae	Hornellia occidentalis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda		Isopod/Tanaid	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Joeropsididae	Joeropsis concava	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	194	323	0	1	0	0	0	0	0	0	0	0	1	519
Arthropoda	Kalliapseudidae	Kalliapseudes crassus	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	26	0	1	61
Arthropoda	Corophiidae	Laticorophium baconi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Paratanaidae	Leptochelia dubia	2004	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	4	0	0	0	0	2	0	0	0	0	0	0	2	6
Arthropoda	Leucothoidae	Leucothoe alata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Cyclasteropinae	Leuroleberis sharpei	2004	1	4	4	2	1	9	2	1	3	1	2	5	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41	0
Arthropoda	Liljeborgiidae	Lilijeborgia geminata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella eriopisa	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella goleta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella melanica	2004	0	0	0	2	0	1	2	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
Arthropoda	Liljeborgiidae	Listriella sp A	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Xanthidae	Lophopanopeus bellus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Arthropoda	Lysianassidae	Lysianassoidea sp SDBay 1	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Maera jerrica	2004	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Arthropoda	Gammaridae	Maera simile	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Arthropoda	Majidae	Majidae	2004	0	0	0	1	0	1	1	0	2	0	0	0	0	0	2	3	6	4	2	3	0	2	1	0	1	1	0	1	5	26
Arthropoda	Panopeidae	Malacoplax californiensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Mayerella acanthopoda	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Homolodromiidae	Megalopa/Zoea	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Arthropoda	Melitidae	Melitidae	2004	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Mysidae	Metamysidopsis elongata	2004	0	6	0	0	0	0	0	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0
Arthropoda	Crangonidae	Mesocrangon munitella	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Corophiidae	Monocorophium acherusicum	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Corophiidae	Monocorophium sp	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Corophiidae	Monocorophium uenoi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Munnidae	Munna sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Mysidacea	Mysidacea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Laomediidae	Naushonia macginitiei	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Arcturidae	Neastacilla californica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Callianassidae	Neotrypaea sp	2004	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Callianassidae	Neotrypaea gigas	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	5	0	3	0	0	0	0	0	12
Arthropoda	Lysianassidae	Orchomene anaquelus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Ostracoda	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Diastylidae	Oxyurostylis pacifica	2004	0	1	0	0	0	1	2	1	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
Arthropoda		Paguroidea (Unident/Juv/Damaged)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Sphaeromatidae	Paracerceis sculpta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Sphaeromatidae	Paracerceis sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Arthropoda	Dexaminidae	Paradexamine sp SD1	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Aoridae	Paramicrodeutopus schmitti	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Paranthuridae	Paranthura elegans	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Parapseudidae	Parapseudes pedispinis	2004	0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	0
Arthropoda	Phtiscidae	Perotripus brevis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Isaeidae	Photis brevipes	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Isaeidae	Photis sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Phoxocephalidae	2004	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Phtiscidae	Phtisica sp RHMP1	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa forficulimanus	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Pinnotheridae	Pinnixa sp	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Pinnotheridae	Pinnixa tomentosa	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa tubicola	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Pinnotheridae	Pinnotheridae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	2
Arthropoda	Podoceridae	Podocerus fulanus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Podoceridae	Podocerus sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Majidae	Podochela hemphilli	2004	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Portunidae	Portunidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Portunidae	Portunus xantusii	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Cylindroleberididae	Postasterope barnesi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Protellidae sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Majidae	Pyromaia tuberculata	2004	0	6	3	0	0	0	16	0	2	0	0	0	0	0	3	4	9	4	1	0	0	2	0	0	2	0	0	0	27	25
Arthropoda	Phoxocephalidae	Rhepoxynius heterocuspidatus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Rudilemoboides stenopropodus	2004	2	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	6	4
Arthropoda	Rutidermatidae	Rutiderma rostratum	2004	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Rutidermatidae	Rutiderma sp	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Acanthonotozomatid	Schmittius politus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Arthropoda	Pinnotheridae	Scleroplax granulata	2004	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2	2	0	0	2	0	1	0	0	0	0	4	8
Arthropoda	Stenothoidae	Stenothoe estacola	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Stenothoidae	Stenothoe frecanda	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda		Stomatopoda - Larva/damaged	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Arthropoda	Tanaidae	Synaptotanais notabilis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Tannystylidae	Tanystylum californicum	2004	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0
Arthropoda	Tannystylidae	Tanystylum sp (p)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Tritella laevis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Tritella tenuissima	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Upogebiidae	Upogebia macginitierorum	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Cypridinidae	Vargula tsujii	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Portunidae	Portunidae	2004	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida		Abyssoninoe sp.	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	2
Annelida	Terebellidae	Amaeana occidentalis	2004	0	0	2	0	1	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Annelida	Ampharetidae	Ampharete labrops	2004	0	0	2	1	1	0	2	2	4	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
Annelida	Ampharetidae	Ampharete spp. indet.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Ampharetidae	Amphicteis scaphobranchiata	2004	0	1	3	0	1	0	2	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Annelida	Spionidae	Aonides sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Aoroides spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta monilaris	2004	0	1	3	0	0	0	3	1	3	0	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	0
Annelida	Cirratulidae	Aphelochaeta petersenae	2004	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Annelida	Cirratulidae	Aphelochaeta sp. SD5	2004	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Cirratulidae	Aphelochaeta sp.	2004	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Aphroditidae	Aphrodite sp. juv.	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
Annelida	Aphroditidae	Aphrodite spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Apoprionospio pygmaea	2004	0	0	0	30	0	0	0	0	12	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	42	2
Annelida	Archiannelida		2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Aricidea (Acmira) catherinae	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Paraonidae	Aricidea sp.	2004	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Paraonidae	Aricidea spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Opheliidae	Armandia brevis	2004	0	6	0	4	0	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
Annelida	Syllidae	Autolytus sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Axiothella sp.	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Sabellidae	Bispira sp.	2004	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	1	3
Annelida	Flabelligeridae	Brada villosa	2004	23	4	3	0	29	1	0	0	0	3	3	2	1	0	4	0	2	5	0	0	0	4	2	3	0	1	0	0	69	21
Annelida	Syllidae	Brania sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Capitella capitata complex	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Capitellidae	2004	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Capitellidae	Capitellidae sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Caulleriella sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Cirratulidae	Caulleriella spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Chaetopteridae	Chaetopteridae sp.	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Cirratulidae	Chaetozone corona	2004	17	1	74	4	8	0	2	0	0	1	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	110	0
Annelida	Cirratulidae	Chaetozone nr. setosa	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp. SD2	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Cirratulidae	Chaetozone sp. SD3	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Cirratulidae	Chaetozone sp.	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Sabellidae	Chone mollis	2004	0	24	5	0	3	26	26	0	3	2	0	5	1	3	0	2	0	1	2	1	0	0	1	0	0	0	0	1	98	8
Annelida	Sabellidae	Chone spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Cirratulidae	2004	8	23	63	0	13	7	6	5	0	12	6	7	2	2	0	0	0	0	0	9	0	1	0	0	3	0	0	0	154	13
Annelida	Cirratulidae	Cirratulus sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Cirratulus spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cossuridae	Cossura sp. A (Phillips, 1987)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cossuridae	Cossura sp. A (Phillips, 1987)	2004	5	0	0	1	6	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
Annelida	Cossuridae	Cossura spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Diopatra ornata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Diopatra sp	2004	1	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Onuphidae	Diopatra sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Diplocirrus sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Diplocirrus sp. SD1	2004	0	0	0	13	0	0	0	0	1	0	0	0	0	0	0	10	0	0	0	0	2	0	0	0	0	0	0	0	14	12
Annelida	Flabelligeridae	Diplocirrus spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Dipolydora socialis	2004	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Cirratulidae	Dodecaceria sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Dodecaceria spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Dorvilleidae	Dorvillea rudolphi	2004	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2	0	2	0	1	0	0	0	1	2	1	2	9
Annelida	Dorvilleidae	Dorvillea (Schistomeringos) sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Annelida	Oenonidae	Drilonereis longa	2004	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	2
Annelida	Oenonidae	Drilonereis sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone aestuarina	2004	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1	2
Annelida	Phyllodocidae	Eteone pacifica	2004	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Phyllodocidae	Eteone sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Euchone limnicola	2004	2	1	0	1	3	2	0	0	1	0	0	0	0	0	3	2	0	0	1	0	1	2	1	0	0	0	0	0	10	10
Annelida	Maldanidae	Euclymeninae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Euclymeninae	2004	13	11	28	0	13	25	20	13	0	6	10	8	5	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	152	3
Annelida	Maldanidae	Euclymeninae sp A	2004	0	0	0	33	0	0	0	0	23	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	56	3
Annelida	Phyllodocidae	Eulalia californiensis	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Phyllodocidae	Eumida longicornuta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Annelida	Terebellidae	Eupolymnia heterobranchia	2004	0	14	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	15	4
Annelida	Syllidae	Eusyllis sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone longicornis	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Syllidae	Exogone lourei	2004	0	381	31	3	6	31	41	2	31	4	4	35	8	0	3	3	22	46	4	27	10	9	7	2	18	4	3	4	577	162
Annelida	Syllidae	Exogone molesta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Annelida	Syllidae	Exogone spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Fabricianuda limnicola	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Fabricianuda limnicola	2004	0	0	0	1	0	4	0	0	0	0	0	2	9	0	0	11	0	1	17	3	19	0	94	7	62	0	2	22	16	238
Annelida	Sabellidae	Fabriciinae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Annelida	Glyceridae	Glycera americana	2004	0	3	1	2	2	2	3	2	0	2	1	1	1	1	0	2	0	1	2	1	2	1	1	1	0	0	2	0	21	13
Annelida	Glyceridae	Glycera macrobranchia	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Glyceridae	Glycera macrobranchiata	2004	1	1	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	6	1
Annelida	Glyceridae	Glycera nana	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Glyceridae	Glycinde armigera	2004	0	0	2	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Annelida	Goniadidae	Goniada brunnea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Goniadidae	Goniada littorea	2004	0	1	2	0	4	2	2	3	9	1	0	2	0	2	0	0	0	4	2	3	0	0	0	0	3	6	0	0	28	18

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Polynoidae	Halosydna johnsoni	2004	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	1	0	0	3	5
Annelida	Polynoidae	Harmothoe fragilis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Annelida	Polynoidae	Harmothoe imbricata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0	0	0	2	0	0	0	7
Annelida	Polynoidae	Harmothoe imbricata complex	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionura coineaui difficilis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionura couneaui difficilis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Heteromastus sp.	2004	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Hesionidae	Heteropodarke heteromorpha	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Jasminaria sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Jasmineira sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Laonice cirrata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Leitoscoloplos pugettensis	2004	33	24	30	17	72	21	6	0	1	8	4	43	17	20	7	19	5	1	21	5	14	11	23	5	8	3	4	23	296	149
Annelida	Lumbrineridae	Lumbrineridae	2004	77	61	20	0	77	52	79	4	0	33	30	66	58	48	55	0	0	75	33	73	0	84	25	23	54	37	37	55	605	551
Annelida	Lumbrineridae	Lumbrineris latreilli	2004	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	0	0	0	0	0	0	0	1	5
Annelida	Lumbrineridae	Lumbrineris erecta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris sp. 1 (HRJ)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris sp. C (Harris)	2004	17	3	0	0	5	2	3	0	0	2	4	2	2	0	12	0	0	1	1	2	0	2	0	0	0	0	1	0	40	19
Annelida	Lumbrineridae	Lumbrineris sp. GROUP 1	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Annelida	Ampharetidae	Lysippe sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Ampharetidae	Lysippe sp. A (SCAMIT)	2004	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Ampharetidae	Lysippe sp. juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Acrocirridae	Macrochaeta sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
Annelida	Maldanidae	Maldanidae	2004	0	3	0	0	1	3	0	0	5	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	12	3
Annelida	Polynoidae	Malmgreniella sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Eunicidae	Marphysa sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Annelida	Capitellidae	Mediomastus acutus	2004	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Capitellidae	Mediomastus californiensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Mediomastus sp.	2004	18	50	97	0	35	50	34	10	0	92	104	166	70	14	46	41	5	127	14	44	0	49	10	4	27	27	8	13	740	415
Annelida	Capitellidae	Mediomastus spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Megalomma pigmentum	2004	5	0	1	1	2	0	0	0	0	0	0	0	2	0	1	8	0	1	0	0	7	4	2	1	0	0	0	1	11	25
Annelida	Ampharetidae	Melinna oculata	2004	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Chaetopteridae	Mesochaetopterus sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Metasychis disparadentata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Micropodarke dubia	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Microspio pigmentata	2004	0	2	3	2	1	0	0	0	0	2	0	1	0	0	1	1	0	0	0	0	0	1	5	2	0	0	0	0	11	10
Annelida	Cirratulidae	Monticellina cryptica	2004	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6	1
Annelida	Cirratulidae	Monticellina siblina	2004	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Annelida	Cirratulidae	Monticellina sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris dendritica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris sp. juv	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris spp. juv	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellariidae	Neosabellaria cementarium	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nephtyidae	Nephtys caecoides	2004	1	0	5	2	2	0	0	1	2	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0
Annelida	Nephtyidae	Nephtys californiensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	0	0	0	1	0	3	3
Annelida	Nephtyidae	Nephtys cornuta	2004	1	1	2	1	1	0	1	0	2	0	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	13	1
Annelida	Nephtyidae	Nephtys ferruginea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nephtyidae	Nephtys spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereidae sp. juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis procera	2004	3	0	9	6	5	0	0	5	5	0	0	0	0	0	0	0	1	0	0	0	0	4	2	0	0	0	0	0	33	7
Annelida	Nereididae	Nereis procera (SCAMIT)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis sp. juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus magnus	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Capitellidae	Notomastus sp. A	2004	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Capitellidae	Notomastus sp.	2004	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	1
Annelida	Capitellidae	Notomastus tenuis	2004	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Nynantheae		2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Odontosyllis phosphorea	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	0	0	5
Annelida			2004	0	0	2	0	2	0	1	0	0	0	0	1	0	0	12	0	1	3	0	0	0	3	0	0	0	2	0	0	6	21
Annelida		Oligochaeta	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	10	0	0	0	0	3	0	0	0	0	0	0	0	1	13
Annelida	Onuphidae	Onuphidae juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphidae sp. juv.	2004	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Onuphidae	Onuphis geophiliformis	2004	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Onuphidae	Onuphis sp.	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Onuphidae	Onuphis spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Opheliidae	Ophelia limacina	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Orbiniidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Orbiniidae sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oweniidae	Owenia collaris	2004	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Chrysopetalidae	Paleonotus bellis	2004	0	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Annelida	Pilargidae	Parandalia ocularis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Paraonidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Paraprionospio pinnata	2004	0	0	1	1	0	0	1	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	7	1
Annelida	Amphinomidae	Pareurythoe californica	2004	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	10	0	0	2	11
Annelida	Pectinariidae	Pectinaria californiensis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Pherusa spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pholoididae	Pholoe sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phorona	Phoronidae		2004	1	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	4	3
Annelida	Phyllodocidae	Phyllodoce hartmanae	2004	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Phyllodocidae	Phyllodoce longipes	2004	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Phyllodocidae	Phyllodoce spp. juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pilargidae	Pilargis sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Piromis sp.	2004	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	6	0	3	0	3	0	0	0	4	1	0	2	19
Annelida	Terebellidae	Pista brevibranchiata	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista percyi	2004	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2	13	0	9	0	6	3	2	0	0	1	2	0	0	2	38
Annelida	Terebellidae	Pista sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista wui	2004	2	2	18	3	2	8	4	4	16	2	0	6	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	68	2
Annelida	Nereididae	Platynereis bicanaliculata	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Hesionidae	Podarkeopsis glabrus	2004	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Poecilochaetidae	Poecilochaeta sp. (SCAMIT)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
Annelida	Poecilochaetidae	Poecilochaeta sp. A (SCAMIT)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Poecilochaetidae	Poecilochaeta sp. A (SCAMIT)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Polycirrus sp. complex	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Polycirrus spp. complex	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora nr. brachycephala	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora spp. complex	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Polynoidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Potamethus sp MK1	2004	0	0	0	0	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	0
Annelida	Spionidae	Prionospio cirrifera	2004	2	5	1	0	0	2	0	0	0	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	12	2
Annelida	Spionidae	Prionospio lighti	2004	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	3
Annelida	Spionidae	Prionospio heterobranchia	2004	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	17	0	0	0	0	0	0	0	2	31
Annelida	Spionidae	Prionospio heterochaeta	2004	1	4	5	0	1	30	14	0	0	0	3	5	7	1	4	0	9	23	3	24	0	5	1	6	9	16	4	7	71	111
Annelida	Spionidae	Prionospio jubata	2004	1	42	76	0	8	64	32	11	0	65	13	163	23	2	1	0	0	0	0	1	0	0	1	9	1	0	0	1	500	14
Annelida	Spionidae	Prionospio spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Dorvilleidae	Protodorvillea gracilis	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Spionidae	Pseudopolydora paucibranchiata	2004	0	0	0	0	2	0	1	0	0	1	0	2	0	0	1	1	0	90	3	3	0	2	0	0	2	0	0	5	6	107
Annelida	Sabellariidae	Sabellaridae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae	2004	0	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	1	1	2	7	8
Annelida	Sabellidae	Sabellidae juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae sp #4	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Annelida	Sabellidae	Sabellidae sp. 1	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Scalibregmatidae	Scalibregma californica	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Scalibregmatidae	Scalibregma inflatum	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Schistocomus sp. A (SCAMIT)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Scolelepis occidentalis	2004	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	1	2
Annelida	Spionidae	Scolelepis spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp.	2004	43	54	64	78	70	38	13	3	9	69	72	28	20	7	7	49	8	2	35	1	68	23	19	47	11	3	3	4	568	280
Annelida	Lumbrineridae	Scoletoma sp. A	2004	0	0	0	29	0	0	0	0	9	0	0	0	0	0	0	12	0	0	0	0	7	0	0	0	0	0	0	0	38	19
Annelida	Lumbrineridae	Scoletoma sp. B	2004	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	1	0	0	0	0	0	0	0	17	12
Annelida	Lumbrineridae	Scoletoma sp. C	2004	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	57	0	0	0	0	11	0	0	0	0	0	0	0	43	68
Annelida	Orbiniidae	Scoloplos armiger complex	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Scyphoproctus oculatus	2004	0	14	0	0	0	0	3	0	0	0	0	1	0	0	5	1	0	19	1	5	1	20	0	1	0	1	1	6	18	61
Annelida	Serpulidae	Serpulidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Serpulidae	Serpulidae	2004	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Sigalionidae	Sigalion spinosa	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sigalion spinosus	2004	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Phyllodocidae	Sige sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spio filicornis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	1	5	3	0	0	24	0	41
Annelida	Spionidae	Spio spp. juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Chaetopteridae	Spiochaetopterus costarum	2004	0	1	6	0	0	0	2	0	5	0	0	0	1	0	0	1	0	0	5	1	0	0	0	1	0	0	0	0	15	8
Annelida	Chaetopteridae	Spiochaetopterus pottsi	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spionidae sp.	2004	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Spionidae	Spiophanes berkeleyorum	2004	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	1
Annelida	Spionidae	Spiophanes bombyx	2004	0	1	12	0	0	2	1	3	1	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0
Annelida	Spionidae	Spiophanes duplex	2004	1	12	23	8	15	20	36	4	10	4	1	10	3	2	1	12	0	13	25	4	10	4	4	6	13	1	1	6	149	100
Annelida	Spionidae	Spiophanes sp.	2004	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Spionidae	Spiophanes spp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sthenalais sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sthenelanella uniformis	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Streblosoma sp.	2004	0	23	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	24	4
Annelida	Syllidae	Syllidae	2004	0	12	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	7	0	10	1	0	0	7	0	0	12	37
Annelida	Syllidae	Syllis (Ehlersia) heterochaeta	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Syllis sp.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Tenonia priops	2004	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Terebellidae	Terebellidae	2004	0	17	4	0	0	3	1	0	0	0	0	0	1	0	4	0	0	4	0	1	0	2	0	0	0	2	0	0	26	13
Annelida	Terebellidae	Terebellidae juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Terebellidae sp. 1 (HRJ)	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Terebellidae sp. juv.	2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina culcitella	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina harpa	2005	0	0	3	0	0	8	0	0	0	1	0	4	7	0	1	4	0	0	0	0	0	0	0	0	1	0	0	0	23	6
Mollusca	Cylichnidae	Acteocina inculta	2005	0	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	8	1
Mollusca	Aeolidiidae	Aeolioda	2005	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Aglajidae	Aglaja ocelligera	2005	0	0	2	0	1	0	0	0	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	5	2
Mollusca	Columbellidae	Alia carinata	2005	0	6	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Mollusca	Pectinidae	Argopecten ventricosus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Thraciidae	Asthenothaerus diegensis	2005	1	1	14	0	0	21	1	0	1	3	3	4	3	0	28	29	8	20	15	0	19	4	9	21	13	1	20	19	52	206
Mollusca	Columbellidae	Astyris aurantiaca	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina culcitella	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina inculta	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca		Bivalva	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	1	3

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Mollusca	Gadilidae	Cadulus aberrans	2005	0	0	0	0	0	0	1	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Mollusca	Caecidae	Caecum californicum	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Calyptraeidae	2005	0	0	0	0	0	27	0	0	0	0	0	0	1	0	0	0	5	0	0	0	4	0	0	0	0	0	0	0	28	9
Mollusca	Veneridae	Chione sp.	2005	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0	2	4
Mollusca	Veneridae	Chione californiensis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	0	0	4
Mollusca	Columbellidae	Columbellidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Conidae	Conus californicus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Petricolidae	Cooperella subdiaphana	2005	0	0	2	0	0	0	1	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	4	2
Mollusca	Corbulidae	Corbula porcella	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Crepidula sp	2005	0	1	1	0	1	5	2	0	0	1	0	0	83	0	1	4	417	0	0	3	0	1	0	0	65	47	1	0	94	539
Mollusca	Calyptraeidae	Crepidula onyx	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Mollusca	Calyptraeidae	Crepipatella dorsata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Crucibulum spinosum	2005	0	0	0	0	0	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	123	0	0	0	16	0	0	0	5	139
Mollusca	Myidae	Cryptomya californica	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Semelidae	Cumingia californica	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Cylichna diegnsis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Diplodontidae	Diplodonta sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Diplodontidae	Diplodonta orbella	2005	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	2
Mollusca	Diplodontidae	Diplodonta sericata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Dotoidae	Doto sp.	2005	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Mollusca	Epitoniidae	Epitonium sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Epitoniidae	Epitonium hindsii	2005	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca		Gastropoda	2005	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Hiatellidae	Hiatella arctica	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Kellia suborbicularis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Conidae	Kurtziella plumbea	2005	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Cardiidae	Laevicardium substriatum	2005	0	0	1	0	1	7	0	0	0	0	3	2	5	1	2	1	0	1	0	1	1	0	0	0	6	0	0	0	20	12
Mollusca	Lasaeidae	Lasaea adansoni	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tellinidae	Leporimetis obesa	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Mollusca	Pectinidae	Leptopecten latiauratus	2005	0	0	0	0	0	0	1	0	27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0
Mollusca	Lucinidae	Lucinisca nuttalli	2005	0	1	12	2	0	0	0	0	1	2	0	0	2	0	0	2	12	0	0	1	0	0	2	2	11	4	2	0	20	36
Mollusca	Lyonsidae	Lyonsia californica	2005	0	0	2	0	0	10	0	0	2	0	1	0	0	0	74	75	28	8	0	3	15	5	14	8	42	3	6	6	15	287
Mollusca	Tellinidae	Macoma sp	2005	0	7	3	3	2	1	2	0	0	1	0	0	2	1	4	3	0	0	0	0	0	0	0	0	0	2	0	0	22	9
Mollusca	Tellinidae	Macoma yoldiformis	2005	0	0	3	0	0	0	2	0	15	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0
Mollusca	Mactridae	Mactroma californica	2005	0	1	4	1	0	10	0	0	0	1	0	0	15	0	0	5	2	1	15	7	0	2	2	2	3	7	4	4	32	54
Mollusca	Aglajidae	Melanochlamys diomedea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca		Modiolinae	2005	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Mytilidae	Modiolus neglectus	2005	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Mytilidae	Musculista senhousia	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	15	345	3	4	7	1	2	2	1	23	1	2	3	0	412
Mollusca	Mytilidae	Mytilus sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Nassariidae	Nassarius perpinguis	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Neoleptonidae	Neolepton salmonea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Muricidae	Ocinebrina barbarensis	2005	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	1
Mollusca	Pyramidellidae	Odostomia sp	2005	0	0	0	0	0	0	0	0	19	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
Mollusca	Olividae	Olivella baetica	2005	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Conidae	Ophiodermella inermis	2005	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Ostreidae	Ostrea conchaphila	2005	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	6	0	0	0	27	0	0	0	2	0	0	0	10	35
Mollusca	Ostreidae	Ostreidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Mollusca	Lucinidae	Parvilucina tenuisculpta	2005	0	0	2	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Mollusca	Philinidae	Philine sp	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Philinidae	Philine auriformis	2005	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Pectinidae	Pectinidae	2005	0	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Mollusca	Periplomatidae	Periploma discus	2005	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Mollusca	Periplomatidae	Periploma planiusculum	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Cystiscidae	Plesiocystiscus politulus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Mollusca	Eulimidae	Polygireulima rutila	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Protothaca sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Mollusca	Veneridae	Protothaca staminea	2005	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Veneridae	Protothaca tenerrima	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Muricidae	Pteropura festiva	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Acteonidae	Rictaxis punctocaelatus	2005	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Mollusca	Lasaeidae	Rochefortia coani	2005	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Mollusca	Lasaeidae	Rochefortia compressa	2005	0	2	3	0	0	0	0	1	3	3	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	2	0	0	12	6
Mollusca	Lasaeidae	Rochefortia grippi	2005	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Lasaeidae	Rochefortia tumida	2005	0	0	1	0	0	0	2	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Mollusca	Veneridae	Saxidomus nuttalli	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	1	0	0	0	7
Mollusca		Scaphopoda	2005	0	1	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1
Mollusca	Solenidae	Solen sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	2
Mollusca	Solenidae		2005	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	7	0	2	0	1	5	2	0	1	0	1	2	3	21
Mollusca	Solenidae	Solen rostriformis	2005	0	0	0	0	0	0	0	0	0	1	2	0	0	0	6	0	0	1	0	0	0	0	0	0	0	0	0	0	3	7
Mollusca	Psammobiidae	Tagelus sp	2005	15	4	13	2	3	25	0	0	3	1	1	6	35	5	21	21	6	0	12	10	1	8	3	12	59	31	11	12	113	207
Mollusca	Psammobiidae	Tagelus subteres	2005	0	0	4	0	0	0	5	0	8	16	14	0	0	0	1	2	0	8	0	0	27	0	0	0	0	0	0	0	47	38
Mollusca	Tellinidae	Tellina meropsis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tellinidae	Tellina modesta	2005	0	0	6	0	0	0	2	0	6	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	0
Mollusca	Tellinidae	Tellinidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mollusca	Semelidae	Theora lubrica	2005	76	4	4	0	2	1	0	0	2	1	2	0	8	2	138	67	25	5	24	2	5	1	23	8	14	0	2	5	102	319
Mollusca	Thraciidae	Thraciidae	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Tritoniidae	Tritonia diomedea	2005	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Pyramidellidae	Turbonilla sp	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Pyramidellidae	Turbonilla sp SD1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Veneridae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Brachiopoda	Lingulidae	Glottidia albida	2005	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	3
Brachiopoda	Lingulidae	Glottidia albida	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Cionidae	Ciona sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Molgulidae	Molgula sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	1	0	0	0	0	0	0	2	0	0	0	0	0	9
Chordata	Molgulidae	Molgula sp SD1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Molgulidae	Molgula verrucifera	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Chordata	Molgulidae	Molgula verrucifera	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Pyuridae	Microcosmus sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Styelidae	Styela coriacea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata		Ascidiacea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	50	0	0	0	0	0	0	0	1	2	0	0	0	59
Cnidaria	Actiniidae	Actinaria	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	2
Cnidaria	Cerianthidae	Ceriantharia	2005	0	0	2	0	0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	7	4
Cnidaria	Corymorphidae	Corymorpha palma	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	3
Cnidaria	Edwardsiidae	Edwardsis sp G	2005	375	0	6	0	21	0	0	0	6	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	411	3
Cnidaria	Edwardsiidae	Edwardsiidae	2005	0	15	0	38	0	0	2	5	0	165	26	7	0	0	2	0	0	0	8	24	33	7	25	2	0	0	3	0	258	104
Cnidaria	Virgulariidae	Virgularia californica	2005	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Cnidaria	Virgulariidae	Acanthoptilum sp	2005	3	6	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	2	0	5	10	12
Cnidaria	Virgulariidae	Stylatula elongata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Cnidaria	Virgulariidae	Virgilariidae	2005	0	1	0	0	0	0	0	0	0	2	2	0	0	0	0	0	1	10	0	0	18	9	19	18	0	0	5	0	5	80
Cnidaria	Virgulariidae	Virgularia agassizii	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Stylatula sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria		Anthozoa	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	3	0	7
Cnidaria		Cnidaria	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Gonactiniidae	Gonactinia prolifera	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echiura	Urechidae	Urechis caupo	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nematoda		Nematoda	2005	0	0	0	0	0	1	0	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	6	1
Nemertea	Amphiphoridae	Amphiphoridae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Amphiphoridae	Zygonemertes sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Carinomidae	Carinoma mutabilis	2005	0	0	8	0	0	8	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Nemertea	Emplectonematidae	Paranemertes californica	2005	1	0	0	0	0	5	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	1	10	11
Nemertea	Lineidae	Cerebratulus californiensis	2005	0	2	0	2	0	0	6	2	1	15	10	2	0	0	2	0	6	1	4	2	1	0	5	0	0	0	0	0	40	21
Nemertea	Lineidae	Cerebratulus sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Lineidae	2005	0	2	0	0	4	0	1	0	1	2	0	0	0	2	2	0	1	0	2	2	0	0	1	8	0	0	0	0	12	16
Nemertea	Lineidae	Micrura alaskensis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Micrura wilsoni	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Tublanidae	2005	4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Nemertea	Tubulanidae	Tubulanus cingulatus	2005	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Nemertea	Tubulanidae	Tubulanus nothus	2005	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Nemertea	Tubulanidae	Tubulanus polymorphus	2005	5	0	7	0	6	8	0	0	5	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	37	2
Nemertea	Tubulanidae	Tubulanus sp SD1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Palaeonemertea sp	2005	0	0	0	0	0	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Nemertea		Anopla	2005	0	0	0	0	0	0	0	0	3	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	7	1
Nemertea		ORDER - Heteronemertea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea		Nemertea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea		Enopla	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phorona	Phoronidae		2005	0	4	0	1	9	0	3	4	1	10	4	3	22	5	0	0	0	0	2	0	4	0	3	2	0	0	0	0	66	11
Phorona	Phoronidae	Phoronis sp	2005	0	0	0	0	9	0	0	0	1	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0
Phorona	Phoronidae	Phoronopsis sp	2005	0	0	0	0	0	194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	5	194	7
Platyhelminthes	Latocestidae	Latocestidae sp	2005	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	0	0	1	0	0	0	0	0	0	0	2	3
Platyhelminthes	Stylochoplanidae	Stylochoplana sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	2	0	0	0	0	0	0	0	0	2	1	0	0	3	5
Platyhelminthes		ORDER - Polycladida	2005	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Sipuncula	Golfingiidae	Thysanocardia nigra	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Amphiuridae		2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	27
Echinodermata	Amphiuridae	Amphipholis squamata	2005	0	0	0	0	2	24	0	0	8	3	2	2	13	1	5	0	27	9	7	8	1	4	6	7	38	30	8	22	55	172
Echinodermata	Amphiuridae	Aphiodia urtica	2005	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Echinodermata	Amphiuridae	Aphiodia sp	2005	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Echinodermata	Amphiuridae	Aphiodia psara	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Echinodermata	Synaptidae	Leptosynapta sp	2005	0	3	1	0	1	0	0	0	0	2	1	0	1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	12	1
Arthropoda	Mysidae	Alienacanthomysis macropsis	2005	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Alpheidae	Alpheidae (juv/damaged)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Alpheidae	Alpheus californiensis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Anthuridae	Amakusanthura californiensis	2005	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Oedicerotidae	Americhelidium sp SD4	2005	0	0	0	0	1	0	0	0	1	0	0	0	1	0	3	1	0	6	2	8	6	3	3	4	0	5	6	1	3	48
Arthropoda	Ammotheidae	Ammothea hilgendorfi	2005	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Ampeliscidae	Ampelisca agassizi	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Ampeliscidae	Ampelisca brachycladus	2005	0	1	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Ampeliscidae	Ampelisca cristata	2005	0	2	2	0	4	0	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0	0	1	7	0	0	0	1	12	10
Arthropoda	Ampeliscidae	Ampelisca cristata microdentata	2005	5	14	19	3	4	2	5	5	4	20	5	0	2	0	0	1	0	1	1	0	0	1	0	0	0	0	0	1	88	5
Arthropoda	Ampeliscidae	Ampelisca lobata	2005	0	2	1	0	0	0	0	1	9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0
Arthropoda	Ampeliscidae	Ampelisca milleri	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca romigi	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Amphideutopus oculatus	2005	432	64	281	127	397	190	77	31	35	230	397	22	219	35	278	271	73	179	202	148	114	236	307	142	29	14	59	201	2537	2253
Arthropoda	Ampithoidae	Ampithoe cf laceratosa	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxichilidiidae	Anoplodactylus erectus	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	3	0	0	0	0	1	0	0	0	0	0	0	2	1	8
Arthropoda	Phoxichilidiidae	Anoplodactylus viridintestinales	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Amphilochidae	Apolochus barnardi	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Amphilochidae	Apolochus picadurus	2005	0	0	0	0	0	11	0	0	0	0	0	0	1	0	0	0	9	0	0	0	0	0	1	0	1	0	0	0	12	11
Arthropoda	Gelechiidae	Aruga holmesi	2005	0	0	7	0	1	0	2	1	2	4	0	0	1	8	0	0	0	1	1	0	2	0	0	0	0	2	5	0	26	11
Arthropoda	Cylindroleberididae	Asteropella slatteryi	2005	1	0	3	1	1	0	0	1	4	2	3	0	4	0	0	0	0	0	4	2	3	0	2	3	0	0	0	1	20	15
Arthropoda	Alpheidae	Betaeus ensenadensis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Alpheidae	Betaeus longidactylus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Alpheidae	Betaeus sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Brachyura	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda		Calanoida (copepod)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Nannastacidae	Campylaspis cf rurbromaculata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	2
Arthropoda	Caprellidae	Caprella ? Angusta	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella cf andreae	2005	0	0	0	0	0	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	0
Arthropoda	Caprellidae	Caprella californica	2005	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Caprellidae	Caprella mendax	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Caprellidae	Caprella penantis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Arthropoda	Caprellidae	Caprella sp	2005	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1	0	3	0	0	0	0	0	0	0	3	0	0	0	2	7
Arthropoda	Caprellidae	Caprellidae	2005	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda		Caridea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprellidae sp SDBay 1	2005	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Ischyroceridae	Cerapus tubularis Cmplx	2005	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	1
Arthropoda	Colomastigidae	Colomastix sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Corophioidea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Crangonidae	Crangon alaskensis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Crangonidae	Crangon sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Oedicerotidae	Deflexilodes enigmaticus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	2
Arthropoda	Podoceridae	Dulichia sp	2005	0	0	0	0	0	8	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	0	0	0	2	0	0	0	9	5
Arthropoda	Melitidae	Dulichiella spinosa	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Elasmopus rapax	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Arthropoda	Phoxocephalidae	Eobrolgus chumashi	2005	0	0	0	0	1	0	0	0	0	0	0	4	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0
Arthropoda	Ischyroceridae	Ericthonius brasiliensis	2005	0	0	5	0	0	199	0	0	0	5	12	0	32	18	29	9	659	17	12	22	0	6	6	4	53	6	0	0	271	823
Arthropoda	Philomedidae	Euphilomdedes carcharodonta	2005	1	3	3	0	0	0	0	0	1	2	0	0	0	0	2	3	4	9	3	1	5	1	2	3	0	0	2	1	10	36
Arthropoda	Phoxocephalidae	Foxiphalus golfensis	2005	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Isaeidae	Gammaropsis thompsoni	2005	0	25	1	0	0	6	0	1	24	0	0	0	26	0	0	0	197	0	0	0	0	0	0	0	93	5	0	0	83	295
Arthropoda	Megaluropidae	Gibberosus cf falciformes	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Corophiidae	Grandidierella japonica	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	18
Arthropoda	Grapsidae	Grapsidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Anthuridae	Haliophasma geminatum	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Oedicerotidae	Hartmanodes hartmanae	2005	3	0	4	6	0	1	11	0	0	3	3	1	1	1	1	0	0	0	3	0	1	1	0	1	0	0	0	2	34	9
Arthropoda	Phtiscidae	Hemiproto sp A	2005	0	0	0	0	0	0	0	0	0	0	2	0	4	0	0	4	2	1	0	0	0	0	0	0	7	0	0	0	6	14
Arthropoda	Mysidae	Heteromysis odontops	2005	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Phoxocephalidae	Heterophoxus ellisa	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Heterophoxus oculatus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Hertophoxus sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Hertophoxus sp (p)	2005	8	1	3	4	13	3	0	0	0	0	0	0	26	0	5	0	6	1	6	1	1	0	0	0	37	12	0	0	58	69
Arthropoda	Serolidae	Heteroserolis carinata	2005	0	0	0	0	1	1	3	0	0	3	25	3	0	0	1	3	3	5	7	16	10	9	20	23	10	4	8	14	36	133
Arthropoda	Hippolytidae	Hippolytidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Lysianassidae	Hippomedon sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	4
Arthropoda	Lysianassidae	Hippomedon zetesimus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	0	0	0	3	0	0	8
Arthropoda	Melphidippidae	Hornellia occidentalis	2005	0	0	0	0	0	6	1	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0
Arthropoda		Isopod/Tanaid	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Joeropsididae	Joeropsis concava	2005	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	1	0	0	0	0	0	0	0	5	0	0	0	8	6
Arthropoda	Kalliapseudidae	Kalliapseudes crassus	2005	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1452	2	0	0	0	0	0	0	3170	10	0	0	2	4634
Arthropoda	Corophiidae	Laticorophium baconi	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Arthropoda	Paratanaidae	Leptochelia dubia	2005	0	3	0	0	0	1	0	0	1	0	1	0	33	0	0	0	7	0	0	0	0	0	0	1	11	0	0	1	39	20
Arthropoda	Leucothoidae	Leucothoe alata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	22	0	0	0	0	23
Arthropoda	Cyclasteropinae	Leuroleberis sharpei	2005	0	0	2	1	2	0	0	0	0	2	6	3	0	2	1	0	0	0	0	0	2	0	0	2	0	0	0	0	18	5
Arthropoda	Liljeborgiidae	Lilijeborgia geminata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4	0	0	0	0	8
Arthropoda	Liljeborgiidae	Listriella eriopisa	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella goleta	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella melanica	2005	9	2	5	4	13	2	1	0	0	2	0	0	7	1	3	4	2	0	0	0	1	1	3	3	3	1	0	0	46	21
Arthropoda	Liljeborgiidae	Listriella sp A	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Xanthidae	Lophopanopeus bellus	2005	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	0	0	1	2	0	0	3	6
Arthropoda	Lysianassidae	Lysianassoidea sp SDBay 1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	14

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Gammaridae	Maera jerrica	2005	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Gammaridae	Maera simile	2005	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0	11	0	0	0	4	14
Arthropoda	Majidae	Majidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Panopeidae	Malacoplax californiensis	2005	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Protellidae	Mayerella acanthopoda	2005	0	0	0	0	0	2	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	2	3
Arthropoda	Homolodromiidae	Megalopa/Zoea	2005	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Melitidae	Melitidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Mysidae	Metamysidopsis elongata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Crangonidae	Mesocrangon munitella	2005	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Corophiidae	Monocorophium acherusicum	2005	4	0	0	0	2	2	0	0	0	0	0	0	0	0	0	2	14	0	0	2	0	0	1	0	4	0	0	3	8	26
Arthropoda	Corophiidae	Monocorophium sp	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	3
Arthropoda	Corophiidae	Monocorophium uenoi	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Munnidae	Munna sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Mysidacea	Mysidacea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Arthropoda	Laomediidae	Naushonia macginitiei	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	125	21	1	297	21	0	0	485
Arthropoda	Arcturidae	Neastacilla californica	2005	4	0	1	0	3	3	0	0	0	1	8	0	0	1	0	5	0	40	33	23	91	0	0	0	0	0	0	0	21	192
Arthropoda	Callianassidae	Neotrypaea sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Callianassidae	Neotrypaea gigas	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Lysianassidae	Orchomene anaquelus	2005	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda		Ostracoda	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Diastylidae	Oxyurostylis pacifica	2005	0	0	2	1	0	2	1	0	0	3	15	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	26	1
Arthropoda		Paguroidea (Unident/Juv/Damaged)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Sphaeromatidae	Paracerceis sculpta	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Sphaeromatidae	Paracerceis sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	3
Arthropoda	Dexaminidae	Paradexamine sp SD1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Arthropoda	Aoridae	Paramicrodeutopus schmitti	2005	0	1	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Paranthuridae	Paranthura elegans	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
Arthropoda	Parapseudidae	Parapseudes pedispinis	2005	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Phtiscidae	Perotripus brevis	2005	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Isaeidae	Photis brevipes	2005	0	6	11	0	0	6	0	28	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	0
Arthropoda	Isaeidae	Photis sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Phoxocephalidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phtiscidae	Phtisica sp RHMP1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa forficulimanus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa sp	2005	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Pinnotheridae	Pinnixa tomentosa	2005	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Pinnotheridae	Pinnixa tubicola	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Pinnotheridae	Pinnotheridae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Podoceridae	Podocerus fulanus	2005	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Podoceridae	Podocerus sp	2005	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	2	3
Arthropoda	Majidae	Podochela hemphilli	2005	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Portunidae	Portunidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Portunidae	Portunus xantusii	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Cylindroleberididae	Postasterope barnesi	2005	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Protellidae	Protellidae sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Majidae	Pyromaia tuberculata	2005	0	6	1	4	2	3	0	1	14	6	0	0	0	0	0	0	3	0	2	0	0	0	0	2	2	2	0	0	37	11
Arthropoda	Phoxocephalidae	Rhepoxynius heterocuspidatus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Rudilemoboides stenopropodus	2005	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	5	0	2	0	3	3	0	2	0	1	2	6	1	25
Arthropoda	Rutidermatidae	Rutiderma rostratum	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Rutidermatidae	Rutiderma sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Acanthonotozomatid	Schmittius politus	2005	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Pinnotheridae	Scleroplax granulata	2005	1	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	15	0	0	1	1	0	0	0	0	0	0	1	19
Arthropoda	Stenothoidae	Stenothoe estacola	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Stenothoidae	Stenothoe frecanda	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Stomatopoda - Larva/damaged	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Tanaidae	Synaptotanais notabilis	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Tannystylidae	Tanystylum californicum	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Tannystylidae	Tanystylum sp (p)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Tritella laevis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Tritella tenuissima	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
Arthropoda	Upogebiidae	Upogebia macginitierorum	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Cypridinidae	Vargula tsujii	2005	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
Arthropoda	Portunidae	Portunidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida		Abyssoninoe sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	1	3
Annelida	Terebellidae	Amaeana occidentalis	2005	0	0	1	0	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Annelida	Ampharetidae	Ampharete labrops	2005	0	1	12	0	1	4	0	1	4	4	4	1	1	1	0	2	0	0	0	0	0	0	0	1	0	0	0	1	34	4
Annelida	Ampharetidae	Ampharete spp. indet.	2005	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Ampharetidae	Amphicteis scaphobranchiata	2005	0	3	9	0	1	1	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0
Annelida	Spionidae	Aonides sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Aoroides spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta monilaris	2005	0	2	9	0	0	0	0	2	5	5	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	25	1
Annelida	Cirratulidae	Aphelochaeta petersenae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta sp. SD5	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta sp.	2005	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Aphroditidae	Aphrodite sp. juv.	2005	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Aphroditidae	Aphrodite spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Apoprionospio pygmaea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Archiannelida		2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Aricidea (Acmira) catherinae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Aricidea sp.	2005	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Paraonidae	Aricidea spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Opheliidae	Armandia brevis	2005	0	3	2	2	54	182	5	0	11	1	1	2	148	8	0	0	6	1	2	4	0	0	2	0	1	0	2	0	419	18
Annelida	Syllidae	Autolytus sp.	2005	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Annelida	Maldanidae	Axiothella sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Bispira sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Annelida	Flabelligeridae	Brada villosa	2005	15	2	3	2	3	2	2	0	2	7	18	0	2	0	31	86	11	28	24	4	6	0	23	14	0	1	0	2	58	230
Annelida	Syllidae	Brania sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Capitella capitata complex	2005	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	3
Annelida	Capitellidae	Capitellidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Capitellidae sp.	2005	0	0	1	0	3	0	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	2	6	4
Annelida	Cirratulidae	Caulleriella sp.	2005	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	1
Annelida	Cirratulidae	Caulleriella spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Chaetopteridae	Chaetopteridae sp.	2005	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Cirratulidae	Chaetozone corona	2005	7	3	16	3	0	1	1	0	6	8	2	0	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	51	1
Annelida	Cirratulidae	Chaetozone nr. setosa	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp. SD2	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp. SD3	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Chone mollis	2005	0	1	2	0	1	21	3	1	1	3	2	2	9	1	0	0	4	0	0	1	0	0	1	0	4	0	0	0	47	10
Annelida	Sabellidae	Chone spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Cirratulidae	2005	4	21	29	0	7	19	9	2	91	50	15	0	17	2	0	0	0	0	0	1	0	1	0	0	5	0	0	0	266	7
Annelida	Cirratulidae	Cirratulus sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Cirratulidae	Cirratulus spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cossuridae	Cossura sp. A (Phillips, 1987)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cossuridae	Cossura sp. A (Phillips, 1987)	2005	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Annelida	Cossuridae	Cossura spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Diopatra ornata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Diopatra sp	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Diopatra sp.	2005	1	5	5	0	0	1	2	1	1	3	1	0	6	0	2	0	0	0	0	0	1	0	0	0	1	0	0	2	26	6
Annelida	Flabelligeridae	Diplocirrus sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Flabelligeridae	Diplocirrus sp. SD1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Diplocirrus spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Dipolydora socialis	2005	0	2	2	0	0	0	0	1	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
Annelida	Cirratulidae	Dodecaceria sp.	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Cirratulidae	Dodecaceria spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Dorvilleidae	Dorvillea rudolphi	2005	0	1	0	0	0	40	1	0	2	0	0	1	8	0	0	0	12	1	0	0	0	1	0	0	3	0	0	0	53	17
Annelida	Dorvilleidae	Dorvillea (Schistomeringos) sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oenonidae	Drilonereis longa	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oenonidae	Drilonereis sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Annelida	Phyllodocidae	Eteone aestuarina	2005	0	1	0	0	0	7	0	0	2	1	1	0	0	0	1	0	4	2	0	2	1	0	0	1	2	0	0	1	12	14
Annelida	Phyllodocidae	Eteone pacifica	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Phyllodocidae	Eteone sp.	2005	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Phyllodocidae	Eteone spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Euchone limnicola	2005	6	33	9	0	6	12	3	1	5	1	2	0	11	0	0	0	4	0	0	0	0	0	1	1	0	0	0	0	89	6
Annelida	Maldanidae	Euclymeninae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Euclymeninae	2005	4	20	29	2	19	82	9	1	120	36	3	1	37	0	1	0	0	0	2	1	0	6	4	3	0	0	0	6	363	23
Annelida	Maldanidae	Euclymeninae sp A	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eulalia californiensis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eumida longicornuta	2005	0	0	0	0	0	3	0	0	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Annelida	Terebellidae	Eupolymnia heterobranchia	2005	0	4	21	0	3	0	0	0	9	0	0	0	12	0	0	0	27	0	0	0	0	0	0	0	7	0	0	0	49	34
Annelida	Syllidae	Eusyllis sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone longicornis	2005	0	6	0	0	3	0	0	0	0	0	0	1	0	0	0	4	1	0	0	0	0	0	0	1	0	0	0	0	10	6
Annelida	Syllidae	Exogone lourei	2005	0	0	11	1	0	86	10	2	156	9	4	1	140	3	13	38	242	11	6	13	4	6	2	5	133	8	3	18	423	502
Annelida	Syllidae	Exogone molesta	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Fabricianuda limnicola	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Fabricianuda limnicola	2005	0	0	0	0	0	2	0	1	0	0	0	0	3	0	0	12	0	8	3	6	3	4	4	10	2	0	3	13	6	68
Annelida	Sabellidae	Fabriciinae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Glyceridae	Glycera americana	2005	3	5	5	0	1	3	0	2	6	3	3	1	3	1	1	1	2	0	4	0	0	1	0	1	0	1	0	2	36	13
Annelida	Glyceridae	Glycera macrobranchia	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Glyceridae	Glycera macrobranchiata	2005	0	0	1	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4	1
Annelida	Glyceridae	Glycera nana	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Glyceridae	Glycinde armigera	2005	0	1	4	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
Annelida	Goniadidae	Goniada brunnea	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Goniadidae	Goniada littorea	2005	0	2	6	0	0	0	0	1	7	9	4	0	0	0	0	2	2	0	0	0	0	0	0	0	0	14	0	0	29	18
Annelida	Polynoidae	Halosydna johnsoni	2005	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Polynoidae	Harmothoe fragilis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Annelida	Polynoidae	Harmothoe imbricata	2005	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	2
Annelida	Polynoidae	Harmothoe imbricata complex	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Annelida	Hesionidae	Hesionura coineaui difficilis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionura couneaui difficilis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Annelida	Capitellidae	Heteromastus sp.	2005	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Hesionidae	Heteropodarke heteromorpha	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Sabellidae	Jasminaria sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Jasmineira sp.	2005	0	0	0	0	0	0	0	0	5645	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5645	1
Annelida	Spionidae	Laonice cirrata	2005	1	1	4	0	0	0	0	0	3	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0	12	5
Annelida	Orbiniidae	Leitoscoloplos pugettensis	2005	73	18	41	18	28	65	9	0	26	94	46	9	20	4	58	36	6	31	86	31	20	9	58	35	15	2	22	63	451	472
Annelida	Lumbrineridae	Lumbrineridae	2005	10	21	31	5	45	58	22	0	33	65	95	5	48	13	32	9	43	15	131	49	30	35	39	0	60	30	21	0	451	494
Annelida	Lumbrineridae	Lumbrineris latreilli	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris erecta	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris sp. 1 (HRJ)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris sp. C (Harris)	2005	21	4	3	7	7	11	8	0	7	17	8	0	4	3	19	4	18	13	10	1	29	10	8	0	2	0	10	0	100	124
Annelida	Lumbrineridae	Lumbrineris sp. GROUP 1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Ampharetidae	Lysippe sp.	2005	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Ampharetidae	Lysippe sp. A (SCAMIT)	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Ampharetidae	Lysippe sp. juv.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Acrocirridae	Macrochaeta sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	3
Annelida	Maldanidae	Maldanidae	2005	0	6	6	0	2	1	1	0	5	1	0	0	2	0	0	0	0	1	2	1	0	0	0	1	1	0	0	0	24	6
Annelida	Polynoidae	Malmgreniella sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Eunicidae	Marphysa sp.	2005	0	3	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Annelida	Capitellidae	Mediomastus acutus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Mediomastus californiensis	2005	0	0	0	0	5	13	0	0	1	0	0	1	0	0	0	0	0	4	4	3	0	0	0	0	0	0	0	0	20	11
Annelida	Capitellidae	Mediomastus sp.	2005	37	23	22	13	25	346	23	2	254	46	35	3	125	10	38	42	46	32	41	36	13	26	23	29	15	5	8	19	964	373
Annelida	Capitellidae	Mediomastus spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Megalomma pigmentum	2005	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2	0	1	0	3	4
Annelida	Ampharetidae	Melinna oculata	2005	1	0	11	0	1	16	0	0	7	5	2	3	11	0	1	7	3	2	7	2	0	2	0	2	11	5	0	6	57	48
Annelida	Chaetopteridae	Mesochaetopterus sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Metasychis disparadentata	2005	0	0	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Hesionidae	Micropodarke dubia	2005	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	2	2
Annelida	Spionidae	Microspio pigmentata	2005	0	0	2	0	0	0	0	0	4	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	8	2
Annelida	Cirratulidae	Monticellina cryptica	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Monticellina siblina	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Monticellina sp.	2005	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Orbiniidae	Naineris dendritica	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris sp. juv	2005	0	0	0	0	0	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Annelida	Orbiniidae	Naineris spp. juv	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellariidae	Neosabellaria cementarium	2005	0	2	0	0	0	0	0	0	8	0	0	0	11	0	0	0	18	0	0	0	0	0	0	0	14	0	0	0	21	32
Annelida	Nephtyidae	Nephtys caecoides	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	1	3
Annelida	Nephtyidae	Nephtys californiensis	2005	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	2	5
Annelida	Nephtyidae	Nephtys cornuta	2005	0	7	9	0	6	5	1	0	7	10	6	0	2	0	2	11	0	0	3	0	0	0	0	1	0	0	0	0	53	17
Annelida	Nephtyidae	Nephtys ferruginea	2005	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Nephtyidae	Nephtys spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereidae sp. juv.	2005	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Nereididae	Nereis procera	2005	0	2	2	1	0	2	0	1	12	7	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	29	1
Annelida	Nereididae	Nereis procera (SCAMIT)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis sp. juv.	2005	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Nereididae	Nereis spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus magnus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus sp. A	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	5	0	6
Annelida	Capitellidae	Notomastus sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus tenuis	2005	0	0	0	0	0	0	0	0	6	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Annelida	Nynantheae		2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Odontosyllis phosphorea	2005	0	0	0	0	3	4	0	0	2	1	0	0	3	2	3	4	2	4	0	7	1	1	1	1	0	2	1	1	15	28
Annelida			2005	0	0	1	0	0	5	0	0	2	0	0	0	4	0	0	2	0	0	3	0	0	0	0	1	0	0	0	0	12	6
Annelida		Oligochaeta	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphidae juv.	2005	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Onuphidae	Onuphidae sp. juv.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphis geophiliformis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphis sp.	2005	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Onuphidae	Onuphis spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Opheliidae	Ophelia limacina	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Orbiniidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Orbiniidae sp.	2005	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Oweniidae	Owenia collaris	2005	0	1	1	0	0	3	0	0	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	7	4
Annelida	Chrysopetalidae	Paleonotus bellis	2005	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	1
Annelida	Pilargidae	Parandalia ocularis	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Paraonidae	Paraonidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Spionidae	Paraprionospio pinnata	2005	3	2	5	0	0	0	0	2	3	4	1	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	20	3
Annelida	Amphinomidae	Pareurythoe californica	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Annelida	Pectinariidae	Pectinaria californiensis	2005	0	0	0	0	0	1	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Flabelligeridae	Pherusa spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pholoididae	Pholoe sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phorona	Phoronidae		2005	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	1	0	1	1	8
Annelida	Phyllodocidae	Phyllodoce hartmanae	2005	0	4	2	0	0	2	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0
Annelida	Phyllodocidae	Phyllodoce longipes	2005	0	0	1	0	0	1	2	0	4	1	1	0	1	1	0	0	0	1	0	0	0	0	0	0	2	0	0	0	12	3
Annelida	Phyllodocidae	Phyllodoce spp. juv.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pilargidae	Pilargis sp.	2005	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Flabelligeridae	Piromis sp.	2005	0	0	0	0	1	5	0	0	0	0	0	0	2	0	6	0	15	2	3	2	0	0	3	0	6	1	0	0	8	38
Annelida	Terebellidae	Pista brevibranchiata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista percyi	2005	1	2	5	0	8	3	0	0	4	4	1	0	20	0	4	6	22	25	13	1	2	3	4	5	41	2	0	3	48	131
Annelida	Terebellidae	Pista sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista sp.	2005	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Terebellidae	Pista spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista wui	2005	0	14	56	0	1	7	0	5	1	14	3	0	6	0	1	0	3	0	1	3	0	0	0	2	1	0	0	4	107	15
Annelida	Nereididae	Platynereis bicanaliculata	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Podarkeopsis glabrus	2005	0	1	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Poecilochaetidae	Poecilochaeta sp. (SCAMIT)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Poecilochaetidae	Poecilochaeta sp. A (SCAMIT)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Poecilochaetidae	Poecilochaeta sp. A (SCAMIT)	2005	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Terebellidae	Polycirrus sp. complex	2005	0	0	0	0	0	0	1	0	0	0	0	1	3	2	0	0	1	0	0	0	0	0	0	0	1	1	0	0	7	3
Annelida	Terebellidae	Polycirrus spp. complex	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora nr. brachycephala	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora spp. complex	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Polynoidae	2005	0	3	2	0	0	1	0	0	1	2	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	10	2
Annelida	Sabellidae	Potamethus sp MK1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio cirrifera	2005	2	0	2	0	11	6	1	0	6	15	8	0	8	0	0	0	6	0	1	0	0	0	0	2	1	0	0	0	59	10
Annelida	Spionidae	Prionospio lighti	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio heterobranchia	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio heterochaeta	2005	1	5	1	0	4	168	11	0	5	0	9	4	42	6	5	18	74	39	33	17	14	24	18	15	17	10	5	19	256	308
Annelida	Spionidae	Prionospio jubata	2005	0	18	11	3	4	62	11	0	10	9	19	10	33	2	0	0	6	1	1	2	5	0	1	1	4	1	0	1	192	23
Annelida	Spionidae	Prionospio spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Dorvilleidae	Protodorvillea gracilis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Spionidae	Pseudopolydora paucibranchiata	2005	0	1	0	0	1	8	0	0	0	0	1	0	0	0	2	8	13	0	0	0	2	0	0	1	3	0	0	6	11	35
Annelida	Sabellariidae	Sabellaridae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae	2005	0	2	3	0	0	1	1	0	9	0	0	1	2	0	0	1	1	0	0	1	0	0	0	13	0	0	2	0	19	18
Annelida	Sabellidae	Sabellidae juv.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae sp #4	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae sp. 1	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Scalibregmatidae	Scalibregma californica	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Scalibregmatidae	Scalibregma inflatum	2005	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Terebellidae	Schistocomus sp. A (SCAMIT)	2005	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Spionidae	Scolelepis occidentalis	2005	0	0	2	0	0	10	0	0	1	0	2	0	6	0	0	4	0	2	1	1	0	3	0	3	0	0	0	1	21	15
Annelida	Spionidae	Scolelepis spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp.	2005	119	24	56	39	32	8	2	2	98	53	20	30	3	0	32	23	2	31	76	18	54	20	44	140	18	0	16	170	486	644
Annelida	Lumbrineridae	Scoletoma sp. A	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp. B	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp. C	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Scoloplos armiger complex	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Scyphoproctus oculatus	2005	0	5	4	0	3	8	0	0	0	0	0	0	36	5	1	0	3	1	0	0	0	0	0	0	8	0	0	0	61	13
Annelida	Serpulidae	Serpulidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Serpulidae	Serpulidae	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Sigalionidae	Sigalion spinosa	2005	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Sigalionidae	Sigalion spinosus	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Sige sp.	2005	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Spionidae	Spio filicornis	2005	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	8	0	4	3	4	0	5	0	0	12	11	1	48
Annelida	Spionidae	Spio spp. juv.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Chaetopteridae	Spiochaetopterus costarum	2005	0	0	0	0	0	9	0	0	2	2	1	0	0	0	0	0	0	0	0	2	0	0	2	1	1	0	0	0	14	6
Annelida	Chaetopteridae	Spiochaetopterus pottsi	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spionidae sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Annelida	Spionidae	Spiophanes berkeleyorum	2005	1	1	2	0	1	4	0	1	1	0	2	6	0	0	0	0	0	2	2	0	0	0	0	1	0	0	0	0	19	5
Annelida	Spionidae	Spiophanes bombyx	2005	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2	2
Annelida	Spionidae	Spiophanes duplex	2005	1	8	18	1	29	127	5	1	26	15	6	4	74	5	6	9	12	11	10	39	13	17	2	13	23	13	12	15	320	195
Annelida	Spionidae	Spiophanes sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spiophanes spp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sthenalais sp.	2005	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Sigalionidae	Sthenelanella uniformis	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Streblosoma sp.	2005	0	17	6	0	0	0	0	0	1	0	0	0	12	0	0	0	9	0	0	0	0	0	0	1	0	0	0	0	36	10
Annelida	Syllidae	Syllidae	2005	0	1	2	0	0	4	0	0	7	0	0	0	19	0	3	0	24	0	0	0	0	1	0	0	13	1	0	0	33	42
Annelida	Syllidae	Syllis (Ehlersia) heterochaeta	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Syllis sp.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Tenonia priops	2005	0	1	0	0	0	1	1	0	0	3	0	0	0	0	0	39	0	0	0	0	0	0	0	0	0	0	0	0	6	39
Annelida	Terebellidae	Terebellidae	2005	0	3	3	0	1	7	1	0	9	3	1	0	21	0	27	0	4	18	8	1	0	1	0	0	7	0	0	0	49	66
Annelida	Terebellidae	Terebellidae juv.	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Terebellidae sp. 1 (HRJ)	2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Terebellidae sp. juv.	2005	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7	1
Mollusca	Cylichnidae	Acteocina culcitella	2006	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Cylichnidae	Acteocina harpa	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Cylichnidae	Acteocina inculta	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Mollusca	Aeolidiidae	Aeolioda	2006	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Aglajidae	Aglaja ocelligera	2006	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Columbellidae	Alia carinata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Mollusca	Pectinidae	Argopecten ventricosus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Mollusca	Thraciidae	Asthenothaerus diegensis	2006	0	0	0	1	5	2	5	1	3	2	7	6	5	0	0	11	4	0	2	0	9	0	24	4	0	0	5	10	37	69
Mollusca	Columbellidae	Astyris aurantiaca	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Mollusca	Cylichnidae	Acteocina culcitella	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Mollusca	Cylichnidae	Acteocina inculta	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Mollusca		Bivalva	2006	0	0	0	1	0	0	0	0	1	0	0	0	2	0	0	1	2	1	0	0	0	0	0	0	0	0	3	1	4	8
Mollusca	Gadilidae	Cadulus aberrans	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Caecidae	Caecum californicum	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	5	0	0	0	0	0	0	7	2	0	0	18
Mollusca	Calyptraeidae	Calyptraeidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Chione sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Chione californiensis	2006	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Mollusca	Columbellidae	Columbellidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Mollusca	Conidae	Conus californicus	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Petricolidae	Cooperella subdiaphana	2006	1	1	1	0	0	0	3	3	3	0	0	0	0	1	1	6	0	0	0	0	1	0	1	0	0	0	0	0	13	9
Mollusca	Corbulidae	Corbula porcella	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Mollusca	Calyptraeidae	Crepidula sp	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	3	0	1	7
Mollusca	Calyptraeidae	Crepidula onyx	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	22	12	0	0	36
Mollusca	Calyptraeidae	Crepipatella dorsata	2006	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Calyptraeidae	Crucibulum spinosum	2006	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	38	0	2	10	1	0	0	0	12	213	192	0	2	468
Mollusca	Myidae	Cryptomya californica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	2	1	1	0	0	0	0	0	8
Mollusca	Semelidae	Cumingia californica	2006	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Mollusca	Cylichnidae	Cylichna diegnsis	2006	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Diplodontidae	Diplodonta sp	2006	0	2	0	0	0	1	0	0	4	0	0	0	1	0	2	0	1	1	0	0	1	0	0	0	0	0	0	0	8	5
Mollusca	Diplodontidae	Diplodonta orbella	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Mollusca	Diplodontidae	Diplodonta sericata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Mollusca	Dotoidae	Doto sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Epitoniidae	Epitonium sp	2006	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Epitoniidae	Epitonium hindsii	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Mollusca		Gastropoda	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Hiatellidae	Hiatella arctica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2
Mollusca	Lasaeidae	Kellia suborbicularis	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Mollusca	Conidae	Kurtziella plumbea	2006	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Cardiidae	Laevicardium substriatum	2006	0	0	3	0	0	0	3	0	2	0	3	2	1	3	0	1	4	1	2	0	2	1	3	1	0	0	4	0	17	19
Mollusca	Lasaeidae	Lasaea adansoni	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Mollusca	Tellinidae	Leporimetis obesa	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pectinidae	Leptopecten latiauratus	2006	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	1	0	0	2	4
Mollusca	Lucinidae	Lucinisca nuttalli	2006	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Mollusca	Lyonsidae	Lyonsia californica	2006	1	0	1	1	7	0	1	0	0	0	0	3	2	1	0	13	0	11	3	0	35	1	31	4	1	1	12	3	17	115
Mollusca	Tellinidae	Macoma sp	2006	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Tellinidae	Macoma yoldiformis	2006	0	0	0	0	1	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Mollusca	Mactridae	Mactroma californica	2006	1	1	2	0	0	0	2	1	2	0	3	2	4	1	1	1	0	4	0	0	0	0	0	0	0	2	0	0	19	8
Mollusca	Aglajidae	Melanochlamys diomedea	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca		Modiolinae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Mytilidae	Modiolus neglectus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Mytilidae	Musculista senhousia	2006	0	0	0	0	0	1	2	0	0	0	0	0	1	0	124	13	1	0	2	162	21	1	1	0	7	0	39	0	4	371
Mollusca	Mytilidae	Mytilus sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2
Mollusca	Nassariidae	Nassarius perpinguis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Neoleptonidae	Neolepton salmonea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Muricidae	Ocinebrina barbarensis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
Mollusca	Pyramidellidae	Odostomia sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Olividae	Olivella baetica	2006	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Mollusca	Conidae	Ophiodermella inermis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Ostreidae	Ostrea conchaphila	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	32
Mollusca	Ostreidae	Ostreidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lucinidae	Parvilucina tenuisculpta	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Philinidae	Philine sp	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Philinidae	Philine auriformis	2006	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Mollusca	Pectinidae	Pectinidae	2006	0	2	0	0	0	0	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Mollusca	Periplomatidae	Periploma discus	2006	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Periplomatidae	Periploma planiusculum	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cystiscidae	Plesiocystiscus politulus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	5
Mollusca	Eulimidae	Polygireulima rutila	2006	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Veneridae	Protothaca sp	2006	0	3	0	0	0	0	1	0	1	0	0	0	0	0	3	0	0	0	0	1	0	0	1	0	7	1	2	2	5	17
Mollusca	Veneridae	Protothaca staminea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Protothaca tenerrima	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mollusca	Muricidae	Pteropura festiva	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
Mollusca	Acteonidae	Rictaxis punctocaelatus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia coani	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia compressa	2006	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Lasaeidae	Rochefortia grippi	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia tumida	2006	0	5	0	0	0	0	2	1	0	0	0	1	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5
Mollusca	Veneridae	Saxidomus nuttalli	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
Mollusca		Scaphopoda	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Solenidae	Solen sp	2006	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	3	0	4	0	0	2	0	0	2	11
Mollusca	Solenidae		2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Solenidae	Solen rostriformis	2006	1	0	0	0	1	0	2	0	1	0	6	0	0	2	0	11	0	0	0	0	2	3	9	0	0	0	1	4	13	30
Mollusca	Psammobiidae	Tagelus sp	2006	1	1	0	2	5	0	4	0	1	2	6	8	1	0	1	2	3	5	0	0	4	0	4	1	0	7	3	1	31	31
Mollusca	Psammobiidae	Tagelus subteres	2006	6	11	1	5	10	4	29	0	8	4	9	7	23	7	11	5	2	5	3	1	22	0	8	4	2	27	25	7	124	122
Mollusca	Tellinidae	Tellina meropsis	2006	0	1	0	0	0	0	2	0	1	0	0	0	1	0	1	0	3	0	0	0	0	0	8	0	1	0	3	1	5	17
Mollusca	Tellinidae	Tellina modesta	2006	0	0	0	0	1	0	0	2	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Mollusca	Tellinidae	Tellinidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Semelidae	Theora lubrica	2006	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0	0	2	0	0	0	0	0	0	1	9
Mollusca	Thraciidae	Thraciidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tritoniidae	Tritonia diomedea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pyramidellidae	Turbonilla sp	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	2	1	1	0	1	7
Mollusca	Pyramidellidae	Turbonilla sp SD1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Mollusca	Veneridae	Veneridae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	3	0	0	5
Brachiopoda	Lingulidae	Glottidia albida	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachiopoda	Lingulidae	Glottidia albida	2006	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Chordata	Cionidae	Ciona sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Chordata	Molgulidae	Molgula sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Molgulidae	Molgula sp SD1	2006	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	3
Chordata	Molgulidae	Molgula verrucifera	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Molgulidae	Molgula verrucifera	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Pyuridae	Microcosmus sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	1	0	0	12
Chordata	Styelidae	Styela coriacea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
Chordata		Ascidiacea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Cnidaria	Actiniidae	Actinaria	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Cerianthidae	Ceriantharia	2006	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	1	0	3	2
Cnidaria	Corymorphidae	Corymorpha palma	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	0	0	0	26
Cnidaria	Edwardsiidae	Edwardsis sp G	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Edwardsiidae	Edwardsiidae	2006	317	107	0	582	501	361	194	8	17	2	9	108	23	4	0	12	1	0	0	0	30	14	110	7	0	2	2	13	2233	191
Cnidaria	Virgulariidae	Virgularia californica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Acanthoptilum sp	2006	0	0	1	2	0	1	0	0	0	1	1	0	2	1	0	0	1	0	0	0	7	3	0	4	0	0	0	5	9	20
Cnidaria	Virgulariidae	Stylatula elongata	2006	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Cnidaria	Virgulariidae	Virgilariidae	2006	0	0	0	0	0	0	0	0	0	3	0	1	3	0	0	0	0	0	0	1	1	0	5	15	0	0	0	0	7	22
Cnidaria	Virgulariidae	Virgularia agassizii	2006	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Cnidaria	Virgulariidae	Stylatula sp	2006	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Cnidaria		Anthozoa	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria		Cnidaria	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Gonactiniidae	Gonactinia prolifera	2006	0	0	0	0	0	0	0	0	1	0	0	0	4	0	9	4	3	0	5	20	0	0	15	0	39	15	24	0	5	134
Echiura	Urechidae	Urechis caupo	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Nematoda		Nematoda	2006	0	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	5	1
Nemertea	Amphiphoridae	Amphiphoridae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Nemertea	Amphiphoridae	Zygonemertes sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
Nemertea	Carinomidae	Carinoma mutabilis	2006	0	0	0	0	0	0	3	6	0	2	2	0	1	0	1	0	0	0	0	4	0	0	0	0	0	0	0	0	14	5
Nemertea	Emplectonematidae	Paranemertes californica	2006	0	4	1	1	3	0	5	0	5	2	7	4	4	0	3	2	1	0	1	0	0	0	2	1	0	9	8	0	36	27
Nemertea	Lineidae	Cerebratulus californiensis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Cerebratulus sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Lineidae	2006	0	8	1	1	6	0	0	0	3	3	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	0
Nemertea	Lineidae	Micrura alaskensis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Nemertea	Lineidae	Micrura wilsoni	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Nemertea	Tubulanidae	Tublanidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Tubulanus cingulatus	2006	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Nemertea	Tubulanidae	Tubulanus nothus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Nemertea	Tubulanidae	Tubulanus polymorphus	2006	0	3	1	0	2	0	2	0	0	0	4	2	1	0	0	0	0	1	1	0	0	0	0	1	1	0	1	1	15	6
Nemertea	Tubulanidae	Tubulanus sp SD1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0	0	3
Nemertea	Tubulanidae	Palaeonemertea sp	2006	0	4	1	0	0	0	0	0	0	1	0	4	1	0	3	0	1	0	0	0	0	1	0	0	0	4	1	0	11	10
Nemertea		Anopla	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea		ORDER - Heteronemertea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea		Nemertea	2006	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	1	3
Nemertea		Enopla	2006	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5	0	0	0	0	0	0	0	0	0	6	0	0	0	5	11
Phorona	Phoronidae		2006	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Phorona	Phoronidae	Phoronis sp	2006	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Phorona	Phoronidae	Phoronopsis sp	2006	0	6	0	0	0	4	4	0	2	0	0	1	4	0	4	4	0	0	4	0	2	0	8	0	0	0	2	1	21	25

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Platyhelminthes	Latocestidae	Latocestidae sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes	Stylochoplanidae	Stylochoplana sp	2006	0	0	0	0	0	1	0	0	0	0	1	0	2	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	4	4
Platyhelminthes		ORDER - Polycladida	2006	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	14	2	0	0	0	2	0	3	0	0	0	3	21
Sipuncula	Golfingiidae	Thysanocardia nigra	2006	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Echinodermata	Amphiuridae		2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Amphiuridae	Amphipholis squamata	2006	2	1	0	3	1	2	1	4	0	8	1	1	3	0	4	0	1	7	1	2	1	4	7	1	1	1	2	18	27	50
Echinodermata	Amphiuridae	Aphiodia urtica	2006	0	0	4	0	7	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	4	1	16	7
Echinodermata	Amphiuridae	Aphiodia sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Amphiuridae	Aphiodia psara	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Synaptidae	Leptosynapta sp	2006	0	1	3	0	0	5	0	1	2	4	5	1	1	1	3	4	1	4	7	1	1	1	0	1	4	0	2	0	24	29
Arthropoda	Mysidae	Alienacanthomysis macropsis	2006	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Alpheidae	Alpheidae (juv/damaged)	2006	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Alpheidae	Alpheus californiensis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
Arthropoda	Anthuridae	Amakusanthura californiensis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Oedicerotidae	Americhelidium sp SD4	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	1	0	0	0	0	0	0	5
Arthropoda	Ammotheidae	Ammothea hilgendorfi	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca agassizi	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca brachycladus	2006	1	0	0	1	3	0	2	3	4	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0
Arthropoda	Ampeliscidae	Ampelisca cristata	2006	0	0	0	3	4	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
Arthropoda	Ampeliscidae	Ampelisca cristata microdentata	2006	9	1	7	13	11	2	29	7	11	9	9	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	122	0
Arthropoda	Ampeliscidae	Ampelisca lobata	2006	0	53	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63	0
Arthropoda	Ampeliscidae	Ampelisca milleri	2006	0	0	0	0	0	0	2	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Arthropoda	Ampeliscidae	Ampelisca romigi	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Ampeliscidae	Ampelisca sp	2006	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Gammaridae	Amphideutopus oculatus	2006	224	2	46	187	252	232	328	29	76	13	209	351	72	6	16	73	9	0	134	2	117	29	147	9	3	2	7	58	2027	606
Arthropoda	Ampithoidae	Ampithoe cf laceratosa	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxichilidiidae	Anoplodactylus erectus	2006	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Phoxichilidiidae	Anoplodactylus viridintestinales	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Arthropoda	Amphilochidae	Apolochus barnardi	2006	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	1	0	0	4	6
Arthropoda	Amphilochidae	Apolochus picadurus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gelechiidae	Aruga holmesi	2006	0	3	0	2	0	0	1	0	1	0	0	1	4	2	0	0	0	0	0	1	0	0	1	0	0	0	19	0	14	21
Arthropoda	Cylindroleberididae	Asteropella slatteryi	2006	0	0	0	0	0	0	2	0	1	0	1	7	1	0	0	4	4	0	0	0	0	0	1	0	0	1	3	0	12	13
Arthropoda	Alpheidae	Betaeus ensenadensis	2006	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Alpheidae	Betaeus longidactylus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Alpheidae	Betaeus sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda		Brachyura	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda		Calanoida (copepod)	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Nannastacidae	Campylaspis cf rurbromaculata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Caprellidae	Caprella ? Angusta	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Caprellidae	Caprella cf andreae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella californica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella mendax	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella penantis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprellidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	6
Arthropoda		Caridea	2006	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	1
Arthropoda	Caprellidae	Caprellidae sp SDBay 1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ischyroceridae	Cerapus tubularis Cmplx	2006	0	0	0	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Colomastigidae	Colomastix sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda		Corophioidea	2006	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Crangonidae	Crangon alaskensis	2006	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Crangonidae	Crangon sp	2006	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Oedicerotidae	Deflexilodes enigmaticus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	5	0	0	0	0	7
Arthropoda	Podoceridae	Dulichia sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Melitidae	Dulichiella spinosa	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Gammaridae	Elasmopus rapax	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Eobrolgus chumashi	2006	0	2	0	0	0	0	0	0	0	0	0	0	1	7	0	0	6	0	0	0	0	0	0	0	0	3	3	0	10	12
Arthropoda	Ischyroceridae	Ericthonius brasiliensis	2006	0	1	0	0	0	0	1	1	0	0	7	99	0	0	0	3	0	0	6	1	2	3	1	0	6	0	8	0	109	30
Arthropoda	Philomedidae	Euphilomdedes carcharodonta	2006	1	1	6	1	5	1	14	11	12	3	4	2	3	2	0	0	2	0	1	0	2	0	1	0	1	0	0	0	66	7
Arthropoda	Phoxocephalidae	Foxiphalus golfensis	2006	0	4	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Arthropoda	Isaeidae	Gammaropsis thompsoni	2006	0	5	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0	0	0	4	0	0	0	8	6
Arthropoda	Megaluropidae	Gibberosus cf falciformes	2006	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Corophiidae	Grandidierella japonica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	14	0	0	0	0	6	0	2	0	0	37
Arthropoda	Grapsidae	Grapsidae	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Anthuridae	Haliophasma geminatum	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Oedicerotidae	Hartmanodes hartmanae	2006	1	0	0	0	1	4	4	0	2	0	4	1	1	0	2	0	0	0	1	0	0	1	1	0	0	0	0	0	18	5
Arthropoda	Phtiscidae	Hemiproto sp A	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Mysidae	Heteromysis odontops	2006	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	6	2
Arthropoda	Phoxocephalidae	Heterophoxus ellisa	2006	14	0	0	0	0	0	0	0	0	0	0	1	0	0	3	8	4	2	14	15	0	10	0	30	0	39	0	15	125
Arthropoda	Phoxocephalidae	Heterophoxus oculatus	2006	0	0	0	1	6	0	0	0	0	0	0	0	0	0	16	0	0	1	0	4	0	2	0	0	0	0	4	0	7	27
Arthropoda	Phoxocephalidae	Hertophoxus sp	2006	0	0	0	2	0	0	0	0	0	0	1	0	1	0	13	0	3	1	0	4	2	1	0	0	13	3	11	0	4	51
Arthropoda	Phoxocephalidae	Hertophoxus sp (p)	2006	41	0	42	3	6	10	0	1	29	4	1	3	2	0	28	3	11	6	2	22	17	3	10	0	33	3	54	0	142	192
Arthropoda	Serolidae	Heteroserolis carinata	2006	0	0	2	0	0	2	4	0	1	0	2	2	0	2	0	1	0	0	13	0	2	0	2	0	0	3	1	4	15	26
Arthropoda	Hippolytidae	Hippolytidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Lysianassidae	Hippomedon sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Arthropoda	Lysianassidae	Hippomedon zetesimus	2006	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3	1
Arthropoda	Melphidippidae	Hornellia occidentalis	2006	0	1	0	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Arthropoda		Isopod/Tanaid	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Joeropsididae	Joeropsis concava	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Arthropoda	Kalliapseudidae	Kalliapseudes crassus	2006	0	0	0	0	3	0	0	0	0	0	0	0	0	0	10	0	2	103	0	6	0	0	2	1	41	9	5	0	3	179
Arthropoda	Corophiidae	Laticorophium baconi	2006	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Paratanaidae	Leptochelia dubia	2006	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	2	5
Arthropoda	Leucothoidae	Leucothoe alata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	0	0	3
Arthropoda	Cyclasteropinae	Leuroleberis sharpei	2006	0	0	0	0	0	1	3	1	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Arthropoda	Liljeborgiidae	Liljeborgia geminata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella eriopisa	2006	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Liljeborgiidae	Listriella goleta	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Liljeborgiidae	Listriella melanica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2
Arthropoda	Liljeborgiidae	Listriella sp A	2006	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Xanthidae	Lophopanopeus bellus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	7	0	0	0	0	10	1	4	0	0	28
Arthropoda	Lysianassidae	Lysianassoidea sp SDBay 1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Maera jerrica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Maera simile	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Majidae	Majidae	2006	0	0	0	0	0	4	0	0	2	2	1	8	1	1	6	4	0	3	3	4	4	1	1	1	11	1	4	0	19	43
Arthropoda	Panopeidae	Malacoplax californiensis	2006	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Protellidae	Mayerella acanthopoda	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Homolodromiidae	Megalopa/Zoea	2006	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Melitidae	Melitidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Mysidae	Metamysidopsis elongata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Crangonidae	Mesocrangon munitella	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Corophiidae	Monocorophium acherusicum	2006	2	2	0	0	4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	10	1
Arthropoda	Corophiidae	Monocorophium sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
Arthropoda	Corophiidae	Monocorophium uenoi	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Munnidae	Munna sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Mysidacea	Mysidacea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
Arthropoda	Laomediidae	Naushonia macginitiei	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Arthropoda	Arcturidae	Neastacilla californica	2006	0	1	2	0	0	0	0	0	2	0	3	4	6	0	0	1	1	0	1	0	23	3	0	1	0	0	0	4	18	34
Arthropoda	Callianassidae	Neotrypaea sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Callianassidae	Neotrypaea gigas	2006	0	0	0	0	5	0	0	0	0	0	4	0	0	0	6	0	0	0	0	0	0	7	1	0	0	0	0	1	9	15
Arthropoda	Lysianassidae	Orchomene anaquelus	2006	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda		Ostracoda	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Diastylidae	Oxyurostylis pacifica	2006	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	3	4	4
Arthropoda		Paguroidea (Unident/Juv/Damaged)	2006	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Arthropoda	Sphaeromatidae	Paracerceis sculpta	2006	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Sphaeromatidae	Paracerceis sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Dexaminidae	Paradexamine sp SD1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Aoridae	Paramicrodeutopus schmitti	2006	0	0	0	2	3	1	3	0	0	0	0	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0
Arthropoda	Paranthuridae	Paranthura elegans	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	3
Arthropoda	Parapseudidae	Parapseudes pedispinis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phtiscidae	Perotripus brevis	2006	0	1	0	0	0	0	0	0	0	0	1	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0
Arthropoda	Isaeidae	Photis brevipes	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Isaeidae	Photis sp	2006	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Phoxocephalidae	Phoxocephalidae	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Phtiscidae	Phtisica sp RHMP1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa forficulimanus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa sp	2006	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Pinnotheridae	Pinnixa tomentosa	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa tubicola	2006	0	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Arthropoda	Pinnotheridae	Pinnotheridae	2006	0	1	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4	1
Arthropoda	Podoceridae	Podocerus fulanus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Podoceridae	Podocerus sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Majidae	Podochela hemphilli	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Portunidae	Portunidae	2006	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
Arthropoda	Portunidae	Portunus xantusii	2006	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Cylindroleberididae	Postasterope barnesi	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	1	4
Arthropoda	Protellidae	Protellidae sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Majidae	Pyromaia tuberculata	2006	0	0	0	0	0	0	3	0	0	0	0	0	0	0	8	4	6	2	0	11	0	0	0	0	0	0	0	1	3	32
Arthropoda	Phoxocephalidae	Rhepoxynius heterocuspidatus	2006	0	0	0	0	0	1	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda		Rudilemoboides stenopropodus	2006	0	0	0	1	0	1	4	0	1	0	1	8	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	17	2
Arthropoda	Rutidermatidae	Rutiderma rostratum	2006	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Rutidermatidae	Rutiderma sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Arthropoda	Acanthonotozomatid	Schmittius politus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Scleroplax granulata	2006	0	0	4	0	3	0	0	0	0	0	9	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	16	3
Arthropoda	Stenothoidae	Stenothoe estacola	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Stenothoidae	Stenothoe frecanda	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Arthropoda		Stomatopoda - Larva/damaged	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Tanaidae	Synaptotanais notabilis	2006	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Tannystylidae	Tanystylum californicum	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Tannystylidae	Tanystylum sp (p)	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Tritella laevis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	1	0	0	0	0	4	0
Arthropoda	Protellidae	Tritella tenuissima	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Upogebiidae	Upogebia macginitierorum	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Cypridinidae	Vargula tsujii	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	0	2	1	5
Arthropoda	Portunidae	Portunidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
Annelida		Abyssoninoe sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Amaeana occidentalis	2006	0	0	0	0	0	1	1	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	3	0	1	0	4	6
Annelida	Ampharetidae	Ampharete labrops	2006	0	3	2	0	1	8	13	1	4	3	4	13	5	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	58	1
Annelida	Ampharetidae	Ampharete spp. indet.	2006	0	0	0	0	0	0	2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Annelida	Ampharetidae	Amphicteis scaphobranchiata	2006	0	0	0	0	0	0	5	0	1	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Annelida	Spionidae	Aonides sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Spionidae	Aoroides spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta monilaris	2006	0	4	8	1	0	0	0	1	1	2	7	15	1	0	0	0	0	0	1	2	3	0	0	1	2	0	0	0	40	9
Annelida	Cirratulidae	Aphelochaeta petersenae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta sp. SD5	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta sp.	2006	0	2	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Aphroditidae	Aphrodite sp. juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Aphroditidae	Aphrodite spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Apoprionospio pygmaea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Archiannelida		2006	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Paraonidae	Aricidea (Acmira) catherinae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Aricidea sp.	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Paraonidae	Aricidea spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Opheliidae	Armandia brevis	2006	0	4	0	2	0	9	1	0	0	0	1	0	7	0	1	0	5	1	9	2	2	0	0	1	0	0	7	0	24	28
Annelida	Syllidae	Autolytus sp.	2006	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	5	3
Annelida	Maldanidae	Axiothella sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Bispira sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Brada villosa	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	1	0	0	0	0	0	1	0	0	1	8
Annelida	Syllidae	Brania sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Annelida	Capitellidae	Capitella capitata complex	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Annelida	Capitellidae	Capitellidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Capitellidae sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Caulleriella sp.	2006	0	3	0	0	0	0	0	0	1	0	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Annelida	Cirratulidae	Caulleriella spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Chaetopteridae	Chaetopteridae sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone corona	2006	6	1	6	6	2	1	0	4	1	0	8	7	1	5	0	0	0	0	0	0	0	0	0	0	0	0	1	0	48	1
Annelida	Cirratulidae	Chaetozone nr. setosa	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp. SD2	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp. SD3	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Chone mollis	2006	0	31	0	1	0	19	22	2	14	4	2	21	0	2	1	1	1	0	0	4	0	1	1	0	0	0	2	0	118	11
Annelida	Sabellidae	Chone spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Cirratulidae	2006	1	29	13	1	2	4	18	10	2	7	20	22	5	0	1	0	0	0	0	0	2	0	0	2	34	5	4	0	134	48
Annelida	Cirratulidae	Cirratulus sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Annelida	Cirratulidae	Cirratulus spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cossuridae	Cossura sp. A (Phillips, 1987)	2006	9	0	0	4	5	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	1	0	0	0	18	4
Annelida	Cossuridae	Cossura sp. A (Phillips, 1987)	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cossuridae	Cossura spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Diopatra ornata	2006	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Onuphidae	Diopatra sp	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Diopatra sp.	2006	2	0	0	0	0	0	2	3	2	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	14	1
Annelida	Flabelligeridae	Diplocirrus sp.	2006	0	0	0	1	1	0	2	0	0	0	18	0	3	0	2	86	1	1	0	0	23	85	55	5	1	0	4	5	25	268
Annelida	Flabelligeridae	Diplocirrus sp. SD1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Diplocirrus spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Dipolydora socialis	2006	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	2	0	0	0	0	6	1	1	0	3	10
Annelida	Cirratulidae	Dodecaceria sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	48	8	3	0	0	60
Annelida	Cirratulidae	Dodecaceria spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Dorvilleidae	Dorvillea rudolphi	2006	0	1	0	0	0	0	1	0	0	0	1	0	3	2	0	0	1	1	0	0	0	0	0	0	4	1	9	1	8	17
Annelida	Dorvilleidae	Dorvillea (Schistomeringos) sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oenonidae	Drilonereis longa	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oenonidae	Drilonereis sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone aestuarina	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone pacifica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone sp.	2006	0	0	0	0	0	0	0	0	1	0	0	0	1	1	3	0	1	1	1	0	1	0	0	0	0	0	1	2	3	10
Annelida	Phyllodocidae	Eteone spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Euchone limnicola	2006	3	0	0	2	16	0	0	0	0	0	0	3	2	0	1	2	0	0	1	1	10	2	2	0	0	0	0	0	26	19
Annelida	Maldanidae	Euclymeninae	2006	4	17	3	24	45	16	13	5	24	7	72	15	21	1	0	0	0	0	0	1	1	1	0	8	1	0	3	1	267	16
Annelida	Maldanidae	Euclymeninae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Euclymeninae sp A	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eulalia californiensis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3
Annelida	Phyllodocidae	Eumida longicornuta	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	5	0	0	12

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Terebellidae	Eupolymnia heterobranchia	2006	0	7	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	13	0	1	0	0	0	0	0	0	0	0	7	17
Annelida	Syllidae	Eusyllis sp.	2006	0	2	0	0	0	0	0	0	0	0	2	3	0	0	1	0	0	0	0	1	0	0	0	0	0	3	0	0	7	5
Annelida	Syllidae	Exogone longicornis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone lourei	2006	0	17	1	0	0	1	14	0	5	3	3	6	23	0	13	7	43	14	9	103	2	2	0	2	46	60	104	3	73	408
Annelida	Syllidae	Exogone molesta	2006	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	7	14
Annelida	Syllidae	Exogone sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Fabricianuda limnicola	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	13	0	0	0	24	0	0	1	0	3	0	44
Annelida	Sabellidae	Fabricianuda limnicola	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Fabriciinae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Glyceridae	Glycera americana	2006	1	5	0	2	2	6	2	2	6	0	3	4	4	3	1	2	3	5	1	1	1	0	5	0	1	1	5	2	40	28
Annelida	Glyceridae	Glycera macrobranchia	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Glyceridae	Glycera macrobranchiata	2006	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1
Annelida	Glyceridae	Glycera nana	2006	0	0	0	0	0	0	1	2	3	0	0	0	0	1	0	1	1	0	0	0	0	1	0	0	0	0	0	2	7	5
Annelida	Glyceridae	Glycinde armigera	2006	0	0	1	0	0	3	3	4	6	2	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	21	1
Annelida	Goniadidae	Goniada brunnea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Goniadidae	Goniada littorea	2006	0	0	4	1	0	0	0	0	0	3	0	4	0	0	2	0	0	22	0	8	0	0	0	0	3	1	0	0	12	36
Annelida	Polynoidae	Halosydna johnsoni	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Harmothoe fragilis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	3
Annelida	Polynoidae	Harmothoe imbricata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Harmothoe imbricata complex	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	5	0	0	0	0	0	0	4	0	0	15
Annelida	Hesionidae	Hesionidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionura coineaui difficilis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionura couneaui difficilis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Heteromastus sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Heteropodarke heteromorpha	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Jasminaria sp.	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Sabellidae	Jasmineira sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Laonice cirrata	2006	0	0	1	0	0	0	1	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	1
Annelida	Orbiniidae	Leitoscoloplos pugettensis	2006	51	10	32	148	82	40	25	3	11	5	46	9	17	2	9	78	16	0	23	0	38	38	29	8	0	3	19	31	481	292
Annelida	Lumbrineridae	Lumbrineridae	2006	80	129	20	50	83	100	115	5	33	23	112	28	72	19	67	61	54	24	52	33	108	30	84	42	73	30	63	117	869	838
Annelida	Lumbrineridae	Lumbrineris latreilli	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris erecta	2006	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	4	0	5	0	0	0	0	0	0	0	0	2	9
Annelida	Lumbrineridae	Lumbrineris sp. 1 (HRJ)	2006	0	9	0	0	20	0	0	0	0	0	6	0	0	0	0	0	3	4	0	2	0	0	0	0	0	0	0	0	35	9
Annelida	Lumbrineridae	Lumbrineris sp. C (Harris)	2006	1	0	0	0	1	0	1	0	1	0	9	0	8	2	0	1	0	0	0	1	1	0	7	6	6	1	16	0	23	39
Annelida	Lumbrineridae	Lumbrineris sp. GROUP 1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Ampharetidae	Lysippe sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Ampharetidae	Lysippe sp. A (SCAMIT)	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Ampharetidae	Lysippe sp. juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Acrocirridae	Macrochaeta sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	0	0	3
Annelida	Maldanidae	Maldanidae	2006	1	0	0	0	0	0	2	0	1	0	1	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	15	2
Annelida	Polynoidae	Malmgreniella sp.	2006	0	0	0	0	0	0	1	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1
Annelida	Eunicidae	Marphysa sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	6	0	1	0	0	14
Annelida	Capitellidae	Mediomastus acutus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Mediomastus californiensis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Mediomastus sp.	2006	2	57	11	36	37	16	18	4	22	6	78	21	73	16	52	52	13	54	35	104	25	19	60	46	73	13	61	11	397	618
Annelida	Capitellidae	Mediomastus spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Megalomma pigmentum	2006	0	1	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0	0	0	26	0	0	0	0	2	0	1	0	5	29
Annelida	Ampharetidae	Melinna oculata	2006	0	8	0	1	2	12	15	0	11	0	4	9	1	0	0	0	0	2	0	0	0	1	1	1	7	0	1	0	63	13
Annelida	Chaetopteridae	Mesochaetopterus sp.	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Maldanidae	Metasychis disparadentata	2006	0	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Hesionidae	Micropodarke dubia	2006	0	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	8	1
Annelida	Spionidae	Microspio pigmentata	2006	0	0	2	0	0	0	0	0	0	0	6	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	8	2
Annelida	Cirratulidae	Monticellina cryptica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Monticellina siblina	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Cirratulidae	Monticellina sp.	2006	0	0	0	0	0	1	0	0	1	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Annelida	Orbiniidae	Naineris dendritica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Annelida	Orbiniidae	Naineris sp.	2006	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	1	3
Annelida	Orbiniidae	Naineris sp. juv	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris spp. juv	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellariidae	Neosabellaria cementarium	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	1	0	0	0	5
Annelida	Nephtyidae	Nephtys caecoides	2006	0	0	1	1	0	0	0	0	0	1	0	0	0	2	0	0	2	0	5	0	0	0	0	1	0	0	0	0	5	8
Annelida	Nephtyidae	Nephtys californiensis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nephtyidae	Nephtys cornuta	2006	2	0	1	0	0	2	1	0	1	0	3	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	12	1
Annelida	Nephtyidae	Nephtys ferruginea	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nephtyidae	Nephtys spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereidae sp. juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis procera	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis procera (SCAMIT)	2006	0	1	0	1	0	2	7	1	0	1	11	7	1	0	0	1	1	1	0	0	0	0	0	0	8	0	9	1	32	21
Annelida	Nereididae	Nereis sp. juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus magnus	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus sp. A	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus tenuis	2006	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Nynantheae		2006	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2	2
Annelida	Syllidae	Odontosyllis phosphorea	2006	0	1	1	0	0	1	1	1	1	1	2	6	7	1	0	0	5	4	2	0	3	0	0	0	9	13	2	2	23	40
Annelida			2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	4
Annelida		Oligochaeta	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphidae juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Onuphidae	Onuphidae sp. juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphis geophiliformis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphis sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Onuphidae	Onuphis spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Opheliidae	Ophelia limacina	2006	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Orbiniidae	Orbiniidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Orbiniidae sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oweniidae	Owenia collaris	2006	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2	1
Annelida	Chrysopetalidae	Paleonotus bellis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pilargidae	Parandalia ocularis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Paraonidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Paraprionospio pinnata	2006	8	1	1	2	0	0	2	0	1	4	2	2	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	24	2
Annelida	Amphinomidae	Pareurythoe californica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pectinariidae	Pectinaria californiensis	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Flabelligeridae	Pherusa spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pholoididae	Pholoe sp.	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Phorona	Phoronidae		2006	0	0	1	0	0	5	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	6	3
Annelida	Phyllodocidae	Phyllodoce hartmanae	2006	0	3	0	0	0	1	0	0	2	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0
Annelida	Phyllodocidae	Phyllodoce longipes	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Phyllodoce spp. juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pilargidae	Pilargis sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Piromis sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista brevibranchiata	2006	0	0	0	0	0	2	0	0	4	1	6	1	1	0	0	1	0	2	0	2	1	2	0	0	4	0	3	0	15	15
Annelida	Terebellidae	Pista percyi	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista wui	2006	0	3	1	2	2	0	6	1	0	1	7	12	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	35	4
Annelida	Nereididae	Platynereis bicanaliculata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Podarkeopsis glabrus	2006	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Poecilochaetidae	Poecilochaeta sp. (SCAMIT)	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Poecilochaetidae	Poecilochaeta sp. A (SCAMIT)	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Annelida	Poecilochaetidae	Poecilochaeta sp. A (SCAMIT)	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Polycirrus sp. complex	2006	0	5	0	0	0	0	0	0	0	0	1	0	6	3	0	0	0	0	0	1	0	0	0	0	6	2	2	0	15	11
Annelida	Terebellidae	Polycirrus spp. complex	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora nr. brachycephala	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	5	0	4	0	0	0	0	0	1	2	18	0	0	42
Annelida	Spionidae	Polydora sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	14	0	0	0	0	0	0	0	0	0	23
Annelida	Spionidae	Polydora spp. complex	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Polynoidae	2006	0	1	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	3	0	0	0	0	0	0	1	0	1	0	2	6
Annelida	Sabellidae	Potamethus sp MK1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio cirrifera	2006	1	6	1	0	3	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	5	14	8
Annelida	Spionidae	Prionospio lighti	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio heterobranchia	2006	0	13	0	0	0	1	4	0	0	0	1	2	18	4	31	17	17	49	19	33	9	10	10	3	27	17	40	13	43	295
Annelida	Spionidae	Prionospio heterochaeta	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio jubata	2006	0	2	2	1	0	6	1	0	3	2	8	9	9	0	0	0	0	1	2	0	0	1	0	10	2	0	0	0	43	16
Annelida	Spionidae	Prionospio spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Dorvilleidae	Protodorvillea gracilis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Pseudopolydora paucibranchiata	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellariidae	Sabellaridae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae	2006	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	1	0	0	2	0	1	2	1	0	0	0	0	1	3	8
Annelida	Sabellidae	Sabellidae juv.	2006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1
Annelida	Sabellidae	Sabellidae sp #4	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae sp. 1	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Annelida	Scalibregmatidae	Scalibregma californica	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Scalibregmatidae	Scalibregma inflatum	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Schistocomus sp. A (SCAMIT)	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Scolelepis occidentalis	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Annelida	Spionidae	Scolelepis spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp.	2006	64	11	36	92	94	0	3	12	3	1	7	28	1	0	5	36	0	1	28	3	14	30	14	57	1	0	35	1	352	225
Annelida	Lumbrineridae	Scoletoma sp. A	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp. B	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp. C	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Scoloplos armiger complex	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Annelida	Capitellidae	Scyphoproctus oculatus	2006	0	13	0	0	0	0	5	0	3	0	0	1	17	0	0	0	24	60	0	27	0	0	0	1	373	6	155	2	39	648
Annelida	Serpulidae	Serpulidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Serpulidae	Serpulidae	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sigalion spinosa	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sigalion spinosus	2006	0	0	0	0	0	0	0	0	1	0	1	4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7	1
Annelida	Phyllodocidae	Sige sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
Annelida	Spionidae	Spio filicornis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	2	0	0	0	0	0	0	1	2	17	0	25
Annelida	Spionidae	Spio spp. juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Chaetopteridae	Spiochaetopterus costarum	2006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	1	7
Annelida	Chaetopteridae	Spiochaetopterus pottsi	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spionidae sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spiophanes berkeleyorum	2006	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Spionidae	Spiophanes bombyx	2006	0	0	0	0	1	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Annelida	Spionidae	Spiophanes duplex	2006	1	14	2	2	27	3	9	1	14	1	5	2	17	0	1	7	4	2	18	1	9	2	2	7	0	7	26	1	98	87
Annelida	Spionidae	Spiophanes sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spiophanes spp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sthenalais sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sthenelanella uniformis	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Streblosoma sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Syllidae	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	17	0	1	20
Annelida	Syllidae	Syllis (Ehlersia) heterochaeta	2006	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	3	2	0	4	8
Annelida	Syllidae	Syllis sp.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	12	13	5	0	0	31

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Polynoidae	Tenonia priops	2006	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	1	0	0	1	0	2	2	0	0	0	0	0	2	3	8
Annelida	Terebellidae	Terebellidae	2006	0	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	15	1	1	0	3	17
Annelida	Terebellidae	Terebellidae juv.	2006	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	1	9
Annelida	Terebellidae	Terebellidae sp. 1 (HRJ)	2006	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Terebellidae	Terebellidae sp. juv.	2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina culcitella	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina harpa	2007	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Mollusca	Cylichnidae	Acteocina inculta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Aeolidiidae	Aeolioda	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Aglajidae	Aglaja ocelligera	2007	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Columbellidae	Alia carinata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pectinidae	Argopecten ventricosus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Thraciidae	Asthenothaerus diegensis	2007	2	0	2	8	3	3	0	5	0	1	2	2	0	3	4	8	1	4	4	28	23	8	12	5	10	3	6	11	31	127
Mollusca	Columbellidae	Astyris aurantiaca	2007	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Cylichnidae	Acteocina culcitella	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Acteocina inculta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca		Bivalva	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Gadilidae	Cadulus aberrans	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Caecidae	Caecum californicum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Mollusca	Calyptraeidae	Calyptraeidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Chione sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Chione californiensis	2007	0	7	0	0	1	0	0	0	2	1	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0	0	0	0	11	4
Mollusca	Columbellidae	Columbellidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Conidae	Conus californicus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Petricolidae	Cooperella subdiaphana	2007	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Mollusca	Corbulidae	Corbula porcella	2007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Calyptraeidae	Crepidula sp	2007	0	1	0	0	0	0	1	0	0	0	0	1	0	3	0	0	9	5	0	5	0	0	0	0	0	23	2	0	6	44
Mollusca	Calyptraeidae	Crepidula onyx	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Crepipatella dorsata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Calyptraeidae	Crucibulum spinosum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Myidae	Cryptomya californica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Semelidae	Cumingia californica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cylichnidae	Cylichna diegnsis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Diplodontidae	Diplodonta sp	2007	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3	3
Mollusca	Diplodontidae	Diplodonta orbella	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Diplodontidae	Diplodonta sericata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Dotoidae	Doto sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Epitoniidae	Epitonium sp	2007	0	0	0	0	0	0	0	1	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	4	2
Mollusca	Epitoniidae	Epitonium hindsii	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca		Gastropoda	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Hiatellidae	Hiatella arctica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Kellia suborbicularis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Conidae	Kurtziella plumbea	2007	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Mollusca	Cardiidae	Laevicardium substriatum	2007	0	8	8	7	5	2	4	0	1	9	7	6	0	14	0	1	1	7	4	21	7	1	7	1	8	3	4	2	71	67
Mollusca	Lasaeidae	Lasaea adansoni	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tellinidae	Leporimetis obesa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pectinidae	Leptopecten latiauratus	2007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Lucinidae	Lucinisca nuttalli	2007	0	0	2	2	0	0	0	0	0	4	0	6	1	0	0	0	0	0	0	0	1	0	0	0	0	2	2	0	15	5
Mollusca	Lyonsidae	Lyonsia californica	2007	0	2	4	2	3	0	0	2	0	3	4	3	0	2	6	9	6	9	27	51	11	7	22	1	12	6	14	8	25	189
Mollusca	Tellinidae	Macoma sp	2007	1	3	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	3	0	0	1	0	0	2	1	0	0	0	6	8
Mollusca	Tellinidae	Macoma yoldiformis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Mollusca	Mactridae	Mactroma californica	2007	1	0	0	2	0	0	5	2	2	3	2	0	0	0	0	0	1	0	0	1	0	0	1	0	0	2	2	0	17	7
Mollusca	Aglajidae	Melanochlamys diomedea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca		Modiolinae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Mytilidae	Modiolus neglectus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Mollusca	Mytilidae	Musculista senhousia	2007	0	0	0	1	0	0	0	0	0	0	0	2	0	0	3	1	0	0	0	17	1	3	2	0	0	1	0	0	3	28
Mollusca	Mytilidae	Mytilus sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Mollusca	Nassariidae	Nassarius perpinguis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Neoleptonidae	Neolepton salmonea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Muricidae	Ocinebrina barbarensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pyramidellidae	Odostomia sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Olividae	Olivella baetica	2007	0	3	0	0	0	1	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	8	1
Mollusca	Conidae	Ophiodermella inermis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Ostreidae	Ostrea conchaphila	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Ostreidae	Ostreidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lucinidae	Parvilucina tenuisculpta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Philinidae	Philine sp	2007	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Philinidae	Philine auriformis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pectinidae	Pectinidae	2007	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Periplomatidae	Periploma discus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Periplomatidae	Periploma planiusculum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Cystiscidae	Plesiocystiscus politulus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Eulimidae	Polygireulima rutila	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Protothaca sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Protothaca staminea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Protothaca tenerrima	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Muricidae	Pteropura festiva	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Acteonidae	Rictaxis punctocaelatus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia coani	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia compressa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia grippi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Lasaeidae	Rochefortia tumida	2007	0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Mollusca	Veneridae	Saxidomus nuttalli	2007	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca		Scaphopoda	2007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Mollusca	Solenidae	Solen sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Solenidae		2007	2	1	1	3	1	0	2	0	0	1	0	0	0	2	1	11	0	0	1	6	11	1	6	4	9	0	2	8	13	60
Mollusca	Solenidae	Solen rostriformis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Psammobiidae	Tagelus sp	2007	1	21	2	11	5	7	17	8	4	11	11	14	7	20	0	10	7	7	7	27	9	2	2	8	4	8	8	10	139	109
Mollusca	Psammobiidae	Tagelus subteres	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tellinidae	Tellina meropsis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
Mollusca	Tellinidae	Tellina modesta	2007	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Mollusca	Tellinidae	Tellinidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Semelidae	Theora lubrica	2007	14	0	1	0	0	0	0	0	0	1	0	4	0	0	47	7	0	0	4	2	1	6	2	0	1	0	2	0	20	72
Mollusca	Thraciidae	Thraciidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Tritoniidae	Tritonia diomedea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pyramidellidae	Turbonilla sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Pyramidellidae	Turbonilla sp SD1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mollusca	Veneridae	Veneridae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachiopoda	Lingulidae	Glottidia albida	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brachiopoda	Lingulidae	Glottidia albida	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Cionidae	Ciona sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Molgulidae	Molgula sp	2007	0	0	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	5	3
Chordata	Molgulidae	Molgula sp SD1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Molgulidae	Molgula verrucifera	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Molgulidae	Molgula verrucifera	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Pyuridae	Microcosmus sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata	Styelidae	Styela coriacea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chordata		Ascidiacea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Actiniidae	Actinaria	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Cnidaria	Cerianthidae	Ceriantharia	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	3

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Cnidaria	Corymorphidae	Corymorpha palma	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	1	2	0	0	0	0	0	7
Cnidaria	Edwardsiidae	Edwardsis sp G	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Edwardsiidae	Edwardsiidae	2007	208	0	1	290	370	1	1	26	20	325	4	120	7	0	4	15	0	0	20	5	15	2	26	37	35	1	0	12	1373	172
Cnidaria	Virgulariidae	Virgularia californica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Acanthoptilum sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Stylatula elongata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Virgilariidae	2007	2	0	2	1	2	10	0	0	0	3	2	18	3	0	0	2	0	3	6	0	1	1	2	10	5	0	2	3	43	35
Cnidaria	Virgulariidae	Virgularia agassizii	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Virgulariidae	Stylatula sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria		Anthozoa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria		Cnidaria	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cnidaria	Gonactiniidae	Gonactinia prolifera	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echiura	Urechidae	Urechis caupo	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nematoda		Nematoda	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Amphiphoridae	Amphiphoridae	2007	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Nemertea	Amphiphoridae	Zygonemertes sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Carinomidae	Carinoma mutabilis	2007	0	5	1	1	5	1	3	12	5	2	4	10	3	0	0	3	1	2	4	1	0	0	0	1	2	0	0	1	52	15
Nemertea	Emplectonematidae	Paranemertes californica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Cerebratulus californiensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Cerebratulus sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Lineidae	2007	1	3	0	9	5	0	2	8	7	10	0	10	2	0	0	1	1	0	2	0	0	0	0	3	1	1	0	1	57	10
Nemertea	Lineidae	Micrura alaskensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Lineidae	Micrura wilsoni	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Tublanidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Nemertea	Tubulanidae	Tubulanus cingulatus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Tubulanus nothus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Tubulanus polymorphus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Tubulanus sp SD1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea	Tubulanidae	Palaeonemertea sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea		Anopla	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea		ORDER - Heteronemertea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea		Nemertea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nemertea		Enopla	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phorona	Phoronidae		2007	0	15	0	0	2	5	3	10	2	10	2	15	2	0	1	3	2	2	4	2	0	2	1	2	4	0	0	1	66	24
Phorona	Phoronidae	Phoronis sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phorona	Phoronidae	Phoronopsis sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Platyhelminthes	Latocestidae	Latocestidae sp	2007	0	1	0	0	0	0	0	0	0	0	0	2	0	0	3	2	0	0	0	0	2	0	0	0	0	0	0	0	3	7
Platyhelminthes	Stylochoplanidae	Stylochoplana sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Platyhelminthes		ORDER - Polycladida	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sipuncula	Golfingiidae	Thysanocardia nigra	2007	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Echinodermata	Amphiuridae		2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Amphiuridae	Amphipholis squamata	2007	0	3	1	1	0	1	1	1	1	2	0	5	0	1	0	0	1	1	2	3	1	2	1	1	1	5	4	2	17	24
Echinodermata	Amphiuridae	Aphiodia urtica	2007	0	0	0	1	0	1	3	0	1	1	4	17	2	0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	30	5
Echinodermata	Amphiuridae	Aphiodia sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Amphiuridae	Aphiodia psara	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinodermata	Synaptidae	Leptosynapta sp	2007	0	4	0	1	0	0	0	0	0	0	0	0	1	2	2	1	0	1	3	1	1	0	6	3	4	0	1	0	8	23
Arthropoda	Mysidae	Alienacanthomysis macropsis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Alpheidae	Alpheidae (juv/damaged)	2007	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	3	4
Arthropoda	Alpheidae	Alpheus californiensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Arthropoda	Anthuridae	Amakusanthura californiensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	1	0	0	0	0	0	5
Arthropoda	Oedicerotidae	Americhelidium sp SD4	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	2	0	0	0	1	0	0	0	0	0	7
Arthropoda	Ammotheidae	Ammothea hilgendorfi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca agassizi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca brachycladus	2007	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Ampeliscidae	Ampelisca cristata	2007	0	0	0	0	4	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Ampeliscidae	Ampelisca cristata microdentata	2007	2	1	10	5	7	0	10	1	13	10	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	0
Arthropoda	Ampeliscidae	Ampelisca lobata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca milleri	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca romigi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Ampeliscidae	Ampelisca sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Amphideutopus oculatus	2007	250	4	70	330	290	10	90	80	55	311	31	98	87	2	10	80	72	18	24	31	45	30	41	60	31	20	0	22	1708	484
Arthropoda	Ampithoidae	Ampithoe cf laceratosa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxichilidiidae	Anoplodactylus erectus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxichilidiidae	Anoplodactylus viridintestinales	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Amphilochidae	Apolochus barnardi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Amphilochidae	Apolochus picadurus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gelechiidae	Aruga holmesi	2007	0	0	0	5	2	0	1	0	0	2	0	0	7	0	1	0	0	0	3	0	4	1	1	1	1	0	0	0	17	12
Arthropoda	Cylindroleberididae	Asteropella slatteryi	2007	0	0	0	0	3	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1
Arthropoda	Alpheidae	Betaeus ensenadensis	2007	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Alpheidae	Betaeus longidactylus	2007	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Alpheidae	Betaeus sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Brachyura	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Calanoida (copepod)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Nannastacidae	Campylaspis cf rurbromaculata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Caprellidae	Caprella ? Angusta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Caprellidae	Caprella cf andreae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella californica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella mendax	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprella penantis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Arthropoda	Caprellidae	Caprella sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Caprellidae	Caprellidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Arthropoda		Caridea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Caprellidae	Caprellidae sp SDBay 1	2007	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Ischyroceridae	Cerapus tubularis Cmplx	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Colomastigidae	Colomastix sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
Arthropoda		Corophioidea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Crangonidae	Crangon alaskensis	2007	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
Arthropoda	Crangonidae	Crangon sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Oedicerotidae	Deflexilodes enigmaticus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Podoceridae	Dulichia sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	7	0	0	0	0	0	0	0	9
Arthropoda	Melitidae	Dulichiella spinosa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Elasmopus rapax	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Eobrolgus chumashi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Arthropoda	Ischyroceridae	Ericthonius brasiliensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Philomedidae	Euphilomdedes carcharodonta	2007	0	3	1	1	4	5	7	0	10	0	31	0	0	2	0	0	0	0	0	0	1	0	0	0	1	0	0	0	64	2
Arthropoda	Phoxocephalidae	Foxiphalus golfensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Isaeidae	Gammaropsis thompsoni	2007	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Megaluropidae	Gibberosus cf falciformes	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Corophiidae	Grandidierella japonica	2007	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	1	0	0	0	0	0	7	0	0	0	2	0	0	10	10
Arthropoda	Grapsidae	Grapsidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Anthuridae	Haliophasma geminatum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Oedicerotidae	Hartmanodes hartmanae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phtiscidae	Hemiproto sp A	2007	4	0	0	1	5	1	1	4	1	1	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	0
Arthropoda	Mysidae	Heteromysis odontops	2007	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Arthropoda	Phoxocephalidae	Heterophoxus ellisa	2007	10	0	0	0	0	0	0	0	0	0	0	0	0	0	13	12	0	14	1	0	5	0	7	10	13	17	1	8	10	101
Arthropoda	Phoxocephalidae	Heterophoxus oculatus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	0	0	5	0	0	1	0	1	0	0	0	0	18
Arthropoda	Phoxocephalidae	Hertophoxus sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	0	2	1	0	10	11	15	1	8	0	0	0	59
Arthropoda	Phoxocephalidae	Hertophoxus sp (p)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	29	1	0	10	0	0	42	0	0	41	31	60	0	0	218
Arthropoda	Serolidae	Heteroserolis carinata	2007	0	0	4	0	0	1	0	0	7	2	0	1	0	0	4	0	0	1	1	0	0	0	3	0	0	0	0	0	15	9
Arthropoda	Hippolytidae	Hippolytidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Lysianassidae	Hippomedon sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Lysianassidae	Hippomedon zetesimus	2007	0	0	0	0	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Arthropoda	Melphidippidae	Hornellia occidentalis	2007	0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	3	3
Arthropoda		Isopod/Tanaid	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Joeropsididae	Joeropsis concava	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Kalliapseudidae	Kalliapseudes crassus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Corophiidae	Laticorophium baconi	2007	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Paratanaidae	Leptochelia dubia	2007	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	2	4
Arthropoda	Leucothoidae	Leucothoe alata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	3
Arthropoda	Cyclasteropinae	Leuroleberis sharpei	2007	0	0	0	1	2	1	0	4	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0
Arthropoda	Liljeborgiidae	Lilijeborgia geminata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella eriopisa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella goleta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Liljeborgiidae	Listriella melanica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7
Arthropoda	Liljeborgiidae	Listriella sp A	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	5	0	0	0	0	0	7
Arthropoda	Xanthidae	Lophopanopeus bellus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	10	10	1	0	0	23
Arthropoda	Lysianassidae	Lysianassoidea sp SDBay 1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Maera jerrica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Gammaridae	Maera simile	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Majidae	Majidae	2007	0	0	1	0	1	0	0	1	1	2	1	10	1	1	9	8	1	1	1	4	1	3	1	7	1	1	3	1	19	42
Arthropoda	Panopeidae	Malacoplax californiensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Mayerella acanthopoda	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Homolodromiidae	Megalopa/Zoea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Melitidae	Melitidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Mysidae	Metamysidopsis elongata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Crangonidae	Mesocrangon munitella	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Corophiidae	Monocorophium acherusicum	2007	0	2	0	1	0	0	2	0	1	0	3	1	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	11	4
Arthropoda	Corophiidae	Monocorophium sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Corophiidae	Monocorophium uenoi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Munnidae	Munna sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Mysidacea	Mysidacea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	2	0	0	0	1	0	0	2	4
Arthropoda	Laomediidae	Naushonia macginitiei	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Arcturidae	Neastacilla californica	2007	0	3	0	0	1	0	0	2	0	0	0	0	0	2	0	0	0	0	10	0	0	0	0	0	19	0	0	10	8	39
Arthropoda	Callianassidae	Neotrypaea sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Callianassidae	Neotrypaea gigas	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Arthropoda	Lysianassidae	Orchomene anaquelus	2007	0	0	0	0	0	0	0	7	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	8	1
Arthropoda		Ostracoda	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Diastylidae	Oxyurostylis pacifica	2007	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda		Paguroidea (Unident/Juv/Damaged)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Sphaeromatidae	Paracerceis sculpta	2007	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Sphaeromatidae	Paracerceis sp	2007	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Arthropoda	Dexaminidae	Paradexamine sp SD1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Aoridae	Paramicrodeutopus schmitti	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Paranthuridae	Paranthura elegans	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Parapseudidae	Parapseudes pedispinis	2007	0	0	0	0	1	0	0	0	0	0	0	0	5	0	0	0	1	0	0	0	0	6	0	0	7	0	0	0	6	14
Arthropoda	Phtiscidae	Perotripus brevis	2007	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Isaeidae	Photis brevipes	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Isaeidae	Photis sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Phoxocephalidae	Phoxocephalidae	2007	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Phtiscidae	Phtisica sp RHMP1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa forficulimanus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Arthropoda	Pinnotheridae	Pinnixa sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnixa tomentosa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
Arthropoda	Pinnotheridae	Pinnixa tubicola	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Pinnotheridae	2007	0	0	0	2	0	1	4	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	8	1

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Arthropoda	Podoceridae	Podocerus fulanus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Podoceridae	Podocerus sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
Arthropoda	Majidae	Podochela hemphilli	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Portunidae	Portunidae	2007	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Arthropoda	Portunidae	Portunus xantusii	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Cylindroleberididae	Postasterope barnesi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Protellidae	Protellidae sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Majidae	Pyromaia tuberculata	2007	0	0	0	1	0	0	0	0	0	0	0	0	0	8	0	9	0	0	8	0	0	7	6	1	1	0	2	0	9	34
Arthropoda	Phoxocephalidae	Rhepoxynius heterocuspidatus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda		Rudilemoboides stenopropodus	2007	1	1	1	0	1	0	0	5	0	0	0	7	0	0	4	0	0	0	5	0	7	0	0	1	1	0	0	2	16	20
Arthropoda	Rutidermatidae	Rutiderma rostratum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Rutidermatidae	Rutiderma sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Acanthonotozomatid	Schmittius politus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Pinnotheridae	Scleroplax granulata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Stenothoidae	Stenothoe estacola	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Stenothoidae	Stenothoe frecanda	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	0	0	3
Arthropoda		Stomatopoda - Larva/damaged	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Tanaidae	Synaptotanais notabilis	2007	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Tannystylidae	Tanystylum californicum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Tannystylidae	Tanystylum sp (p)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Arthropoda	Protellidae	Tritella laevis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Arthropoda	Protellidae	Tritella tenuissima	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Arthropoda	Upogebiidae	Upogebia macginitierorum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Arthropoda	Cypridinidae	Vargula tsujii	2007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Arthropoda	Portunidae	Portunidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida		Abyssoninoe sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Amaeana occidentalis	2007	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Ampharetidae	Ampharete labrops	2007	0	1	0	3	3	0	0	3	2	7	2	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	0
Annelida	Ampharetidae	Ampharete spp. indet.	2007	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Ampharetidae	Amphicteis scaphobranchiata	2007	0	0	1	1	0	0	0	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0
Annelida	Spionidae	Aonides sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Aoroides spp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	2
Annelida	Cirratulidae	Aphelochaeta monilaris	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta petersenae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta sp. SD5	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Aphelochaeta sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Aphroditidae	Aphrodite sp. juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Aphroditidae	Aphrodite spp.	2007	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Annelida	Spionidae	Apoprionospio pygmaea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Archiannelida		2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Aricidea (Acmira) catherinae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Aricidea sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Aricidea spp.	2007	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Opheliidae	Armandia brevis	2007	0	38	1	2	3	21	4	0	0	19	0	9	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	127	0
Annelida	Syllidae	Autolytus sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Axiothella sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Bispira sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Brada villosa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Brania sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Capitella capitata complex	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Capitellidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Capitellidae sp.	2007	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	8	5
Annelida	Cirratulidae	Caulleriella sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Caulleriella spp.	2007	0	2	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Annelida	Chaetopteridae	Chaetopteridae sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Cirratulidae	Chaetozone corona	2007	9	0	5	19	9	0	0	0	2	12	9	10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	75	1
Annelida	Cirratulidae	Chaetozone nr. setosa	2007	0	0	0	0	0	0	0	7	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	0
Annelida	Cirratulidae	Chaetozone sp. SD2	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp. SD3	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Chaetozone sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Chone mollis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Chone spp.	2007	0	0	0	1	0	5	4	0	0	2	0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	20	1
Annelida	Cirratulidae	Cirratulidae	2007	3	2	22	32	2	1	8	44	15	51	32	50	4	2	0	0	3	1	0	0	0	0	0	1	2	5	1	0	268	13
Annelida	Cirratulidae	Cirratulus sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Cirratulus spp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Cossuridae	Cossura sp. A (Phillips, 1987)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cossuridae	Cossura sp. A (Phillips, 1987)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cossuridae	Cossura spp.	2007	8	0	0	2	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1
Annelida	Onuphidae	Diopatra ornata	2007	0	1	0	0	0	0	2	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	2
Annelida	Onuphidae	Diopatra sp	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Diopatra sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Diplocirrus sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Diplocirrus sp. SD1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Diplocirrus spp.	2007	9	0	2	38	46	2	0	0	0	18	11	22	2	0	41	39	1	19	12	7	33	2	27	9	7	1	1	12	150	211
Annelida	Spionidae	Dipolydora socialis	2007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Cirratulidae	Dodecaceria sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Dodecaceria spp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Annelida	Dorvilleidae	Dorvillea rudolphi	2007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	1	0	0	0	0	0	1	1	0	1	6
Annelida	Dorvilleidae	Dorvillea (Schistomeringos) sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oenonidae	Drilonereis longa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oenonidae	Drilonereis sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone aestuarina	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone pacifica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eteone spp.	2007	0	2	0	0	0	0	0	0	0	0	0	1	1	0	0	3	2	1	0	2	1	0	0	0	0	0	1	0	4	10
Annelida	Sabellidae	Euchone limnicola	2007	2	0	0	0	1	0	0	0	0	5	0	0	0	0	3	0	0	1	0	2	0	0	0	0	0	0	0	0	8	6
Annelida	Maldanidae	Euclymeninae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Euclymeninae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Euclymeninae sp A	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eulalia californiensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Eumida longicornuta	2007	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	2	2
Annelida	Terebellidae	Eupolymnia heterobranchia	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Eusyllis sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone longicornis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone lourei	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone molesta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Exogone spp.	2007	0	13	0	0	0	0	5	2	0	15	0	1	7	0	1	0	13	0	0	5	2	0	1	1	0	60	13	0	43	96
Annelida	Sabellidae	Fabricianuda limnicola	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Fabricianuda limnicola	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Fabriciinae	2007	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	2
Annelida	Glyceridae	Glycera americana	2007	3	1	0	3	0	3	2	0	0	1	1	3	6	1	2	1	1	2	2	1	2	0	3	2	2	1	0	0	24	19
Annelida	Glyceridae	Glycera macrobranchia	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Glyceridae	Glycera macrobranchiata	2007	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Glyceridae	Glycera nana	2007	0	0	0	0	0	0	0	6	3	0	1	3	0	7	1	0	0	1	0	1	0	0	0	0	0	0	0	0	20	3
Annelida	Glyceridae	Glycinde armigera	2007	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
Annelida	Goniadidae	Goniada brunnea	2007	0	0	5	2	0	0	1	0	1	1	0	5	0	0	1	0	3	2	0	2	0	0	2	4	0	0	0	1	15	15
Annelida	Goniadidae	Goniada littorea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Halosydna johnsoni	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Harmothoe fragilis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Polynoidae	Harmothoe imbricata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Harmothoe imbricata complex	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Hesionura coineaui difficilis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0
Annelida	Hesionidae	Hesionura couneaui difficilis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Heteromastus sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Heteropodarke heteromorpha	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Jasminaria sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Jasmineira sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Laonice cirrata	2007	1	0	0	2	0	0	0	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
Annelida	Orbiniidae	Leitoscoloplos pugettensis	2007	151	2	37	119	139	30	23	24	17	77	46	50	8	2	8	9	9	94	19	15	30	2	45	34	59	6	17	25	725	372
Annelida	Lumbrineridae	Lumbrineridae	2007	98	45	31	160	204	126	62	12	24	214	131	220	65	26	45	131	71	69	76	96	82	65	85	141	109	44	53	50	1418	1117
Annelida	Lumbrineridae	Lumbrineris latreilli	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris erecta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris sp. 1 (HRJ)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris sp. C (Harris)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Lumbrineris sp. GROUP 1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Ampharetidae	Lysippe sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Ampharetidae	Lysippe sp. A (SCAMIT)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Ampharetidae	Lysippe sp. juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Acrocirridae	Macrochaeta sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Maldanidae	2007	3	3	1	21	11	2	11	1	1	11	8	26	11	0	0	1	0	0	0	0	0	0	0	4	7	0	0	0	110	12
Annelida	Polynoidae	Malmgreniella sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Eunicidae	Marphysa sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Mediomastus acutus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Mediomastus californiensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Mediomastus sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Mediomastus spp.	2007	18	17	7	4	20	8	10	8	5	75	9	12	31	1	18	41	32	17	7	15	8	26	28	19	6	7	9	6	225	239
Annelida	Sabellidae	Megalomma pigmentum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	1	0	0	0	4
Annelida	Ampharetidae	Melinna oculata	2007	1	1	0	3	0	4	1	0	0	4	0	19	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	35	1
Annelida	Chaetopteridae	Mesochaetopterus sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Maldanidae	Metasychis disparadentata	2007	1	0	1	1	1	1	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0
Annelida	Hesionidae	Micropodarke dubia	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	2	0	0	0	6
Annelida	Spionidae	Microspio pigmentata	2007	0	0	1	2	0	0	0	0	0	3	0	6	0	0	0	9	0	0	0	0	13	2	2	5	1	0	0	1	12	33
Annelida	Cirratulidae	Monticellina cryptica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Monticellina siblina	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Cirratulidae	Monticellina sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris dendritica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris sp. juv	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Naineris spp. juv	2007	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Sabellariidae	Neosabellaria cementarium	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nephtyidae	Nephtys caecoides	2007	0	1	2	0	0	2	1	3	0	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	1	11	4
Annelida	Nephtyidae	Nephtys californiensis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nephtyidae	Nephtys cornuta	2007	0	0	2	2	2	0	0	0	0	7	5	4	2	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	24	2
Annelida	Nephtyidae	Nephtys ferruginea	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nephtyidae	Nephtys spp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Nereididae	Nereidae sp. juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis procera	2007	0	0	3	8	0	0	1	6	4	11	8	4	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	45	2
Annelida	Nereididae	Nereis procera (SCAMIT)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis sp. juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Nereis spp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Annelida	Capitellidae	Notomastus magnus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus sp. A	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Notomastus sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Capitellidae	Notomastus tenuis	2007	0	0	0	0	0	0	0	0	0	6	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0
Annelida	Nynantheae		2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Odontosyllis phosphorea	2007	0	1	0	0	0	1	3	0	0	0	0	2	2	6	0	2	3	0	1	0	2	0	1	2	0	3	1	0	15	15
Annelida			2007	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	1	0	1	0	0	0	1	4
Annelida		Oligochaeta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphidae juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphidae sp. juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphis geophiliformis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphis sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Onuphidae	Onuphis spp.	2007	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Opheliidae	Ophelia limacina	2007	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Orbiniidae	Orbiniidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Orbiniidae sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Oweniidae	Owenia collaris	2007	0	0	0	0	0	0	0	0	0	1	0	3	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	5	2
Annelida	Chrysopetalidae	Paleonotus bellis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pilargidae	Parandalia ocularis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Paraonidae	Paraonidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Spionidae	Paraprionospio pinnata	2007	2	0	5	6	5	0	0	5	0	3	2	2	2	0	0	0	0	0	0	1	0	1	0	2	0	0	0	0	32	4
Annelida	Amphinomidae	Pareurythoe californica	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Pectinariidae	Pectinaria californiensis	2007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Flabelligeridae	Pherusa spp.	2007	0	0	0	2	1	0	0	0	0	1	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	5	2
Annelida	Pholoididae	Pholoe sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Phorona	Phoronidae		2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Phyllodoce hartmanae	2007	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Phyllodocidae	Phyllodoce longipes	2007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Phyllodocidae	Phyllodoce spp. juv.	2007	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Pilargidae	Pilargis sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Flabelligeridae	Piromis sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista brevibranchiata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista percyi	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Pista spp.	2007	1	0	1	0	3	0	0	0	0	0	1	9	1	0	2	5	0	0	0	0	0	0	0	0	2	3	1	0	16	13
Annelida	Terebellidae	Pista wui	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Nereididae	Platynereis bicanaliculata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Hesionidae	Podarkeopsis glabrus	2007	0	0	1	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
Annelida	Poecilochaetidae	Poecilochaeta sp. (SCAMIT)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Poecilochaetidae	Poecilochaeta sp. A (SCAMIT)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Poecilochaetidae	Poecilochaeta sp. A (SCAMIT)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	6
Annelida	Terebellidae	Polycirrus sp. complex	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Polycirrus spp. complex	2007	0	17	0	0	1	1	0	0	0	0	0	1	5	5	0	0	0	0	0	0	0	0	0	0	0	5	0	0	30	5
Annelida	Spionidae	Polydora nr. brachycephala	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Polydora spp. complex	2007	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
Annelida	Polynoidae	Polynoidae	2007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1
Annelida	Sabellidae	Potamethus sp MK1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio cirrifera	2007	1	2	0	2	3	1	0	0	0	1	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	10	3
Annelida	Spionidae	Prionospio lighti	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio heterobranchia	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio heterochaeta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio jubata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Prionospio spp.	2007	2	9	25	4	1	52	66	35	36	29	19	24	58	0	14	14	32	9	5	36	16	6	12	7	9	11	10	3	360	184
Annelida	Dorvilleidae	Protodorvillea gracilis	2007	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Spionidae	Pseudopolydora paucibranchiata	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellariidae	Sabellaridae	2007	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0

Phylum	Family	Taxon	Year	B1C	B2C	B3C	B4C	B5C	B6C	B7C	B8C	B9C	B10C	B11C	B12C	B13C	B14C	B1E	B2E	B3E	B4E	B5E	B6E	B7E	B8E	B9E	B10E	B11E	B12E	B13E	B14E	ControlTot	ExpTot
Annelida	Sabellidae	Sabellidae	2007	0	2	0	0	0	0	3	3	0	2	0	0	0	0	0	2	0	0	1	0	0	0	0	0	1	0	1	0	10	5
Annelida	Sabellidae	Sabellidae juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae sp #4	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sabellidae	Sabellidae sp. 1	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Scalibregmatidae	Scalibregma californica	2007	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Scalibregmatidae	Scalibregma inflatum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Schistocomus sp. A (SCAMIT)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Scolelepis occidentalis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Scolelepis spp.	2007	0	0	2	0	0	1	0	0	0	0	1	3	0	0	0	9	1	3	2	0	0	0	7	6	0	0	0	3	7	31
Annelida	Lumbrineridae	Scoletoma sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp. A	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp. B	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Lumbrineridae	Scoletoma sp. C	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Orbiniidae	Scoloplos armiger complex	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Capitellidae	Scyphoproctus oculatus	2007	0	3	0	0	0	0	0	0	0	0	0	0	3	0	1	0	1	0	0	0	0	1	0	0	0	1	0	0	6	4
Annelida	Serpulidae	Serpulidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Serpulidae	Serpulidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sigalion spinosa	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sigalion spinosus	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Phyllodocidae	Sige sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spio filicornis	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	1	0	0	0	4	0	2	1	2	6	0	29
Annelida	Spionidae	Spio spp. juv.	2007	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Annelida	Chaetopteridae	Spiochaetopterus costarum	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Chaetopteridae	Spiochaetopterus pottsi	2007	0	0	0	1	0	0	1	1	1	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	8	1
Annelida	Spionidae	Spionidae sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spiophanes berkeleyorum	2007	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	0	1	0	3	0	0	1	0	0	0	0	0	2	9
Annelida	Spionidae	Spiophanes bombyx	2007	0	3	1	0	0	3	0	6	0	1	0	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0
Annelida	Spionidae	Spiophanes duplex	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spiophanes sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Spionidae	Spiophanes spp.	2007	0	61	0	13	23	11	21	13	7	4	4	26	8	0	0	0	1	1	0	9	0	3	0	2	6	0	4	0	191	26
Annelida	Sigalionidae	Sthenalais sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Sigalionidae	Sthenelanella uniformis	2007	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Annelida	Spionidae	Streblosoma sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Syllidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Syllis (Ehlersia) heterochaeta	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Syllidae	Syllis sp.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Polynoidae	Tenonia priops	2007	0	0	0	1	1	0	0	0	0	2	0	1	1	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	6	2
Annelida	Terebellidae	Terebellidae	2007	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	2	0	0	1	0	0	1	0	0	2	5
Annelida	Terebellidae	Terebellidae juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Terebellidae sp. 1 (HRJ)	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Annelida	Terebellidae	Terebellidae sp. juv.	2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0