

Appendix B. Counts of non-native species sampled per station in San Francisco Bay in 2010. For Maximum Number of Individuals Observed, a value of NA denotes a qualitative or colonial organism which did not receive a count. Those organisms are marked as present (P) at stations where they were observed.

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Alcatraz	Aquatic Park	Ayala Cove	Ballena Bay	Benicia Waterfront	Berkeley Flats/ Berkeley Pier	Berkeley Marina	Cal Maritime Academy/Vallejo	Chevron Pier	China Camp	Coast Guard Island	Corinthian Marina	Coyote Point	Coyote Point Marina	Cruise Ship Pier	Dumbarton Bridge	Ferry Terminal Pier
Phylum Annelida																			
<i>Alitta succinea</i>	17	621					6			5		3							30
<i>Amaeana sp. A Harris</i>	5	49									18								
<i>Boccardiella ligerica</i>	6	3169					29												
<i>Ficopomatus enigmaticus</i>	5	16																	
<i>Marenzelleria viridis</i>	1	16																	
<i>Nicolea sp. A Harris</i>	2	8				4													
<i>Sabaco elongatus</i>	8	34				1							4			2			1
<i>Streblospio benedicti</i>	12	1512					3												79
<i>Syllis nipponica</i>	30	4230	36		25	9		187	38		81	1	100		134	291			6
<i>Tubificoides brownae</i>	16	663					5												21
<i>Tubificoides wasselli</i>	6	464					1	1							2				
Phylum Arthropoda																			
<i>Amphibalanus amphitrite</i>	1	72																	22
<i>Amphibalanus improvisus</i>	29	19251	20		36		2764		156	490	4	128	76	81				38	69
<i>Ampithoe valida</i>	19	4034	332		116					188		1231			1424				3
<i>Aoroides secundus</i>	5	858				8		8	553										1
<i>Caprella drepanochir</i>	6	13102																	
<i>Caprella mutica</i>	25	16082			1728	1349		22	4052				495	17		37	17	1456	
<i>Caprella simia</i>	31	30098			2038	999		8	24		106		278	142		115	57	392	2

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Port Sonoma/Petaluma River	Portrero Point	Railroad Bridge	Redwood Creek - Marina	Redwood Creek - Shipping	Richardson Bay	Rodeo Marina	Romberg Tiburon Center	Saint Francis Yacht Harbor	San Mateo Bridge	San Pablo Bay Pumphouse	Santa Fe Channel - Back	Santa Fe Channel - Front	Sea Plane Harbor	Sierra Point Marina	Treasure Island
Phylum Annelida																		
<i>Alitta succinea</i>	17	621	12		348	20			58			80						
<i>Amaeana sp. A Harris</i>	5	49											6					
<i>Boccardiella ligerica</i>	6	3169			2028													
<i>Ficopomatus enigmaticus</i>	5	16																
<i>Marenzelleria viridis</i>	1	16																
<i>Nicolea sp. A Harris</i>	2	8																
<i>Sabaco elongatus</i>	8	34				6							5		3			
<i>Streblospio benedicti</i>	12	1512							12				1					
<i>Syllis nipponica</i>	30	4230		4		130	3	5			17	1984	32	286	35		7	146
<i>Tubificoides brownae</i>	16	663			48			25	90					40				45
<i>Tubificoides wasselli</i>	6	464		2												300		
Phylum Arthropoda																		
<i>Amphibalanus amphitrite</i>	1	72	1	8		3	3	2	808	11			1		1	1	1	
<i>Amphibalanus improvisus</i>	29	19251	1713			184	66		6981			448	2746	88		255		624
<i>Ampithoe valida</i>	19	4034	84				2		25	1	1			2				
<i>Aoroides secundus</i>	5	858						274										15
<i>Caprella drepanochir</i>	6	13102		2								P	13062				1	
<i>Caprella mutica</i>	25	16082		174					550		5	1		2300	835			345
<i>Caprella simia</i>	31	30098		1067		1	1	1805		2	161		8	7846	4914	5	36	2622

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Alcatraz	Aquatic Park	Ayala Cove	Ballena Bay	Benicia Waterfront	Berkeley Flats/ Berkeley Pier	Berkeley Marina	Cal Maritime Academy/Vallejo	Chevron Pier	China Camp	Coast Guard Island	Corinthian Marina	Coyote Point	Coyote Point Marina	Cruise Ship Pier	Dumbarton Bridge	Ferry Terminal Pier
<i>Carcinus maenas</i>	1	NA										P							
<i>Chelura terebrans</i>	1	1																	
<i>Dynoides dentisinus</i>	4	181				1									164				
<i>Eochelidium sp. A</i>																			
SCAMIT	2	2																	
<i>Eusarsiella zostericola</i>	7	167																	7
<i>Gammarus daiberi</i>	2	698																	
<i>Grandidierella japonica</i>	23	3424		1	8		14			36	6		183		16	144			
<i>Hyperacanthomysis longirostris</i>	1	7																	
<i>lais californica</i>	2	4																	
<i>Incisocallope derzhavini</i>	28	18820			35		53	911		10	13	1		28			101	701	44
<i>Jassa marmorata</i>	4	16195															2474		8
<i>Limnoria quadripunctata</i>	1	1				1													
<i>Limnoria tripunctata</i>	7	399				134		16											
<i>Melita nitida</i>	13	11443					63			20									
<i>Monocorophium acherusicum</i>	43	316922			8129	297	13	3038	32	4	185	425	779	69	9558	1237	220	12980	56
<i>Monocorophium insidiosum</i>	34	71767			71	277		6	262	4	150	1149	251	14	40228	170	40	104	
<i>Monocorophium uenoi</i>	3	191													151				
<i>Nippoleucon hinumensis</i>	39	5309		4	222	21	240			1	21	3	42	19		65	28	5	19

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Hayward Landing	Hercules Wharf	Loch Lomond Marina	Mare Island Strait - Marina	Mare Island Strait - Navy	Martinez Marina	McNears Beach	Napa Valley Marina	New York Point Marina	Oakland Inner Harbor - Shipping Cranes	Paradise Cay	Petaluma River Turning Basin	Pier 45	Point Richmond	Point Richmond Piers	Point San Pablo Yacht Harbor	Port of Oakland Office
<i>Carcinus maenas</i>	1	NA																	
<i>Chelura terebrans</i>	1	1																	
<i>Dynoides dentisinus</i>	4	181																	
<i>Eochelidium sp. A</i>																			
SCAMIT	2	2																	
<i>Eusarsiella zostericola</i>	7	167	151	2					1								1		1
<i>Gammarus daiberi</i>	2	698						613			85								
<i>Grandidierella japonica</i>	23	3424	492	303	124	6	120	1	1688	48								70	2
<i>Hyperacanthomysis longirostris</i>	1	7				7													
<i>lais californica</i>	2	4																	
<i>Incisocalliope derzhavini</i>	28	18820	16	158	1968	13	115	7		12			5		34		34		
<i>Jassa marmorata</i>	4	16195																	
<i>Limnoria quadripunctata</i>	1	1																	
<i>Limnoria tripunctata</i>	7	399																	
<i>Melita nitida</i>	13	11443		17		8	23			214				6704					
<i>Monocorophium acherusicum</i>	43	316922	96	691	159384		1	2	504	1		352	16593		5		712	5013	446
<i>Monocorophium insidiosum</i>	34	71767	51	359	8166	8	1		462				5974					8725	108
<i>Monocorophium uenoi</i>	3	191																	
<i>Nippoleucon hinumensis</i>	39	5309	1538	11	68	27	54	29	1830	25			5	160			3	75	6

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Port Sonoma/ Petaluma River	Portrero Point	Railroad Bridge	Redwood Creek - Marina	Redwood Creek - Shipping	Richardson Bay	Rodeo Marina	Romberg Tiburon Center	Saint Francis Yacht Harbor	San Mateo Bridge	San Pablo Bay Pumphouse	Santa Fe Channel - Back	Santa Fe Channel - Front	Sea Plane Harbor	Sierra Point Marina	Treasure Island
<i>Carcinus maenas</i>	1	NA																
<i>Chelura terebrans</i>	1	1																1
<i>Dynoides dentisinus</i>	4	181										P				16		
<i>Eochelidium sp. A</i>																		
SCAMIT	2	2				1	1											
<i>Eusarsiella zostericola</i>	7	167							4									
<i>Gammarus daiberi</i>	2	698																
<i>Grandidierella japonica</i>	23	3424	40						88	1						22	11	
<i>Hyperacanthomysis longirostris</i>	1	7																
<i>lais californica</i>	2	4	P						4									
<i>Incisocalliope derzhavini</i>	28	18820	236	3					825	47		580	10260	2				2608
<i>Jassa marmorata</i>	4	16195										13648			65			
<i>Limnoria quadripunctata</i>	1	1																
<i>Limnoria tripunctata</i>	7	399					32				127		4		78			8
<i>Melita nitida</i>	13	11443	64		4252		1		72	1					4			
<i>Monocorophium acherusicum</i>	43	316922	484	255		278	146	106	1240	133	78	1888	6182	5974	2564	1152	189	75431
<i>Monocorophium insidiosum</i>	34	71767	676			174	95	126	440		359	608		1350	904	84	28	343
<i>Monocorophium uenoi</i>	3	191							3				37					
<i>Nippoleucon hinumensis</i>	39	5309		5	32	12	55	2	300	269	2	12	15	1		53	30	

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Alcatraz	Aquatic Park	Ayala Cove	Ballena Bay	Benicia Waterfront	Berkeley Flats/ Berkeley Pier	Berkeley Marina	Cal Maritime Academy/Vallejo	Chevron Pier	China Camp	Coast Guard Island	Corinthian Marina	Coyote Point	Coyote Point Marina	Cruise Ship Pier	Dumbarton Bridge	Ferry Terminal Pier	
<i>Palaemon macrodactylus</i>	10	74							1											
<i>Paradexamine sp. SD1 SCAMIT</i>	15	348				1			25		4		1	54		3	2			
<i>Paranthura japonica</i>	24	1310				24	4		9		1		28		368	20	1		8	
<i>Pseudosphaeroma sp. (of Bruce and Wetzer 2008)</i>	7	446	8							416		11			6					
<i>Rhithropanopeus harrisii</i>	1	88																		
<i>Sinelobus sp. (of Cohen 2007)</i>	22	13780			1					173		3291								
<i>Sinocorophium alienense</i>	16	471			82	15					49		36			9		5		21
<i>Sinocorophium heteroceratum</i>	2	23																		
<i>Sphaeroma quoianum</i>	11	2687								8		1								
<i>Synidotea laticauda</i>	21	38430					258			92	4	5								7356
Phylum Chlorophyta																				
<i>Bryopsis sp. 1 Miller</i>	12	NA						P				P			P					
Phylum Chordata																				
<i>Ascidia sp. A Lambert</i>	2	8																		
<i>Ascidia zara</i>	26	1840			4	149			62				375	1	12	23		1		
<i>Botrylloides violaceus</i>	30	NA			P	P		P	P		P		P	P	P	P	P			P
<i>Botryllus schlosseri</i>	18	NA			P	P		P	P		P		P	P	P					

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Hayward Landing	Hercules Wharf	Loch Lomond Marina	Mare Island Strait - Marina	Mare Island Strait - Navy	Martinez Marina	McNears Beach	Napa Valley Marina	New York Point Marina	Oakland Inner Harbor - Shipping Cranes	Paradise Cay	Petaluma River Turning Basin	Pier 45	Point Richmond	Point Richmond Piers	Point San Pablo Yacht Harbor	Port of Oakland Office
<i>Palaemon macrodactylus</i>	10	74			4		1	1		26				8				8	1
<i>Paradexamine sp. SD1 SCAMIT</i>	15	348															4		
<i>Paranthura japonica</i>	24	1310			304							3	4						7
<i>Pseudosphaeroma sp. (of Bruce and Wetzer 2008)</i>	7	446																	
<i>Rhithropanopeus harrisi</i>	1	88												88					
<i>Sinelobus sp. (of Cohen 2007)</i>	22	13780		1737		414	18	250	8	725	6		1	5968	4	1		7	
<i>Sinocorophium alienense</i>	16	471	52				84				5						20		17
<i>Sinocorophium heteroceratum</i>	2	23													12				
<i>Sphaeroma quoianum</i>	11	2687		18		44		179		1									
<i>Synidotea laticauda</i>	21	38430	16				857	80		72			1					8	
Phylum Chlorophyta																			
<i>Bryopsis sp. 1 Miller</i>	12	NA		P	P													P	P
Phylum Chordata																			
<i>Ascidia sp. A Lambert</i>	2	8																	4
<i>Ascidia zara</i>	26	1840			4							138	9				22		354
<i>Botrylloides violaceus</i>	30	NA			P			P				P	P		P		P	P	P
<i>Botryllus schlosseri</i>	18	NA			P							P	P					P	P

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Port Sonoma/ Petaluma River	Portrero Point	Railroad Bridge	Redwood Creek - Marina	Redwood Creek - Shipping	Richardson Bay	Rodeo Marina	Romberg Tiburon Center	Saint Francis Yacht Harbor	San Mateo Bridge	San Pablo Bay Pumphouse	Santa Fe Channel - Back	Santa Fe Channel - Front	Sea Plane Harbor	Sierra Point Marina	Treasure Island
<i>Palaemon macrodactylus</i>	10	74	8		16													
<i>Paradexamine sp. SD1 SCAMIT</i>	15	348						33		7	3			4	132		2	73
<i>Paranthura japonica</i>	24	1310		5		6	2	9			2	336		84	56	9	14	6
<i>Pseudosphaeroma sp. (of Bruce and Wetzer 2008)</i>	7	446		1										2		2		
<i>Rhithropanopeus harrisii</i>	1	88																
<i>Sinelobus sp. (of Cohen 2007)</i>	22	13780	1020			1	2		18	2				132		1		
<i>Sinocorophium alienense</i>	16	471				20	48						2			6		
<i>Sinocorophium heteroceratum</i>	2	23		11														
<i>Sphaeroma quoianum</i>	11	2687	276		2148	6	4									2		
<i>Synidotea laticauda</i>	21	38430	272		14988	1	4		2126	1		48	4368		1			7872
Phylum Chlorophyta																		
<i>Bryopsis sp. 1 Miller</i>	12	NA				P			P		P	P	P					
Phylum Chordata																		
<i>Ascidia sp. A Lambert</i>	2	8									4							
<i>Ascidia zara</i>	26	1840		3		107	39	6		1	11	64		146	211	11	70	17
<i>Botrylloides violaceus</i>	30	NA		P		P	P	P			P	P		P	P	P	P	P
<i>Botryllus schlosseri</i>	18	NA		P		P	P	P						P	P	P	P	P

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Alcatraz	Aquatic Park	Ayala Cove	Ballena Bay	Benicia Waterfront	Berkeley Flats/ Berkeley Pier	Berkeley Marina	Cal Maritime Academy/Vallejo	Chevron Pier	China Camp	Coast Guard Island	Corinthian Marina	Coyote Point	Coyote Point Marina	Cruise Ship Pier	Dumbarton Bridge	Ferry Terminal Pier	
<i>Botryllus sp. A Lambert</i>	20	NA				P			P		P		P		P	P				
<i>Ciona intestinalis</i>	10	107				9			2				17							
<i>Ciona savignyi</i>	20	2405			4	127		8	33				663			16		2		
<i>Didemnum vexillum</i>	18	NA			P	P					P			P		P	P	P	P	P
<i>Molgula manhattensis</i>	28	18752			4	28		56	8		3	2	24		68	26		107		
<i>Styela clava</i>	24	484			1	12		16	6				19	1	P	15		7		
<i>Tridentiger trigonocephalus</i>	1	4																		
Phylum Cnidaria																				
<i>Cordylophora caspia</i>	1	NA																		
<i>Diadumene leucolena</i>	3	NA										P			P					
<i>Garveia franciscana</i>	14	NA					P			P							P			
<i>Laomedea calceolifera</i>	1	NA																		
<i>Pinauay crocea</i>	1	NA																		P
Phylum Ectoprocta																				
<i>Anguinella palmata</i>	32	NA			P	P		P			P	P		P	P	P	P	P	P	P
<i>Bugula stolonifera</i>	1	NA																		
<i>Conopeum tenuissimum</i>	2	NA								P		P								
<i>Membranipora chesapeakeensis</i>	17	NA			P		P			P			P		P			P		
<i>Schizoporella errata</i>	16	NA		P					P					P	P			P	P	P
<i>Schizoporella japonica</i>	3	NA												P						
<i>Watersipora subtorquata complex</i>	25	NA	P	P	P	P			P				P	P	P			P		P

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Hayward Landing	Hercules Wharf	Loch Lomond Marina	Mare Island Strait - Marina	Mare Island Strait - Navy	Martinez Marina	McNears Beach	Napa Valley Marina	New York Point Marina	Oakland Inner Harbor - Shipping Cranes	Paradise Cay	Petaluma River Turning Basin	Pier 45	Point Richmond	Point Richmond Piers	Point San Pablo Yacht Harbor	Port of Oakland Office
<i>Botryllus sp. A Lambert</i>	20	NA			P							P	P					P	P
<i>Ciona intestinalis</i>	10	107																	4
<i>Ciona savignyi</i>	20	2405										197	4					4	487
<i>Didemnum vexillum</i>	18	NA											P		P				P
<i>Molgula manhattensis</i>	28	18752			8092	2						4	808				5	574	37
<i>Styela clava</i>	24	484			44							2	56				1	17	10
<i>Tridentiger trigonocephalus</i>	1	4																	
Phylum Cnidaria																			
<i>Cordylophora caspia</i>	1	NA								P									
<i>Diadumene leucolena</i>	3	NA																	
<i>Garveia franciscana</i>	14	NA	P			P	P	P		P									
<i>Laomedea calceolifera</i>	1	NA											P						
<i>Pinauay crocea</i>	1	NA																	
Phylum Ectoprocta																			
<i>Anguinella palmata</i>	32	NA		P					P			P	P		P	P	P	P	P
<i>Bugula stolonifera</i>	1	NA																	
<i>Conopeum tenuissimum</i>	2	NA																	
<i>Membranipora chesapeakeensis</i>	17	NA		P		P	P	P		P	P			P					
<i>Schizoporella errata</i>	16	NA			P								P		P				
<i>Schizoporella japonica</i>	3	NA																	
<i>Watersipora subtorquata complex</i>	25	NA			P							P	P		P		P	P	P

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<i>Botryllus sp. A Lambert</i>	20	NA		P		P	P	P			P			P	P	P	P	
<i>Ciona intestinalis</i>	10	107				6	5					32		4	4		24	
<i>Ciona savignyi</i>	20	2405				96	48	4			82			224	284	1	104	17
<i>Didemnum vexillum</i>	18	NA		P		P	P	P			P	P						P
<i>Molgula manhattensis</i>	28	18752		3		415	470		9	1		7504		126	9	3	44	320
<i>Styela clava</i>	24	484				16	20				4	4		96	50	65	14	8
<i>Tridentiger trigonocephalus</i>	1	4											4					
Phylum Cnidaria																		
<i>Cordylophora caspia</i>	1	NA																
<i>Diadumene leucolena</i>	3	NA										P						
<i>Garveia franciscana</i>	14	NA	P		P				P	P		P	P					
<i>Laomedea calceolifera</i>	1	NA																
<i>Pinauay crocea</i>	1	NA																
Phylum Ectoprocta																		
<i>Anguinella palmata</i>	32	NA		P		P	P	P	P	P		P	P	P	P	P	P	P
<i>Bugula stolonifera</i>	1	NA															P	
<i>Conopeum tenuissimum</i>	2	NA																
<i>Membranipora chesapeakeensis</i>	17	NA	P		P				P				P					
<i>Schizoporella errata</i>	16	NA		P		P						P				P	P	P
<i>Schizoporella japonica</i>	3	NA		P												P		
<i>Watersipora subtorquata complex</i>	25	NA		P				P		P	P			P	P		P	P

Species Name	Total Sites Observed	Maximum Number of Individuals Observed	Port Sonoma/ Petaluma River	Portrero Point	Railroad Bridge	Redwood Creek - Marina	Redwood Creek - Shipping	Richardson Bay	Rodeo Marina	Romberg Tiburon Center	Saint Francis Yacht Harbor	San Mateo Bridge	San Pablo Bay Pumphouse	Santa Fe Channel - Back	Santa Fe Channel - Front	Sea Plane Harbor	Sierra Point Marina	Treasure Island
<i>Theora lubrica</i>	13	46		3			13		1	1	1	4	2	4				
<i>Urosalpinx cinerea</i>	6	48				4	3		P									
<i>Venerupis philippinarum</i>	8	51							14			12						
Phylum Porifera																		
<i>Clathria (Clathria) prolifera</i>	11	NA				P						P		P	P		P	
Phylum Rhodophyta																		
<i>Caulacanthus ustulatus</i>	2	NA																
<i>Grateloupia lanceolata</i>	2	NA						P										
<i>Lomentaria hakodatensis</i>	1	NA																
<i>Polysiphonia denudata</i>	1	NA																

For Maximum Number of Individuals Observed a value of NA denotes a qualitative or colonial organism which did not receive a count. Those organisms are marked as present (P) at stations in which they were observed.