

Harbor Generating Station

Appendix D

Impingement Data

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI1

Start Date: January 5, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	2	0.014
<i>Embiotoca jacksoni</i>	black perch	2	0.029
<i>Heterostichus rostratus</i>	giant kelpfish	3	0.497
<i>Tridentiger trigonocephalus</i>	chameleon goby	1	0.002
<i>Acanthogobius flavimanus</i>	yellowfin goby	1	0.014
		9	0.556
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.003
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	6	1.268
<i>Heptacarpus paludicola</i>	California coastal shrimp	2	0.002
<i>Panulirus interruptus</i>	California spiny lobster	2	0.312
		13	1.586

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI2

Start Date: January 12, 2006

	Taxon	Common Name	Survey Totals	
			Abundance	Biomass (kg)
Fish				
	<i>Cymatogaster aggregata</i>	shiner perch	2	0.011
	<i>Embiotoca jacksoni</i>	black perch	2	0.030
	<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.008
	<i>Heterostichus rostratus</i>	giant kelpfish	2	0.370
	<i>Urobatis halleri</i>	round stingray	1	0.165
	<i>Acanthogobius flavimanus</i>	yellowfin goby	1	0.029
	<i>Rhacochilus vacca</i>	pile perch	1	0.024
			10	0.637
Shellfish				
	<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.003
	<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	2	0.237
			5	0.240
Non-Shellfish				
	Cnidaria	sea jelly, unid.	1	0.001
	<i>Parastichopus parvimensis</i>	warty sea cucumber	1	0.027
			2	0.028

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI3

Start Date: January 19, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.023
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.010
<i>Urobatis halleri</i>	round stingray	1	0.181
<i>Tridentiger trigonocephalus</i>	chameleon goby	1	0.005
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.004
		5	0.223
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.003
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	1	0.249
<i>Heptacarpus paludicola</i>	California coastal shrimp	5	0.003
		8	0.256

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI4
Start Date: January 26, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	2	0.025
<i>Phanerodon furcatus</i>	white seaperch	1	0.028
<i>Urobatis halleri</i>	round stingray	2	0.659
<i>Acanthogobius flavimanus</i>	yellowfin goby	1	0.018
		6	0.730
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	1	0.240
<i>Heptacarpus paludicola</i>	California coastal shrimp	1	0.001
<i>Panulirus interruptus</i>	California spiny lobster	1	0.199
		4	0.441
Non-Shellfish			
<i>Archidoris montereyensis</i>	Monterey sea-lemon	1	0.012
<i>Parastichopus californicus</i>	California sea cucumber	1	0.013
<i>Cuthona lagunae</i>	orange-faced nudibranch	1	0.001
		3	0.026

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI5
Start Date: February 2, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	4	0.076
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.004
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.011
<i>Tridentiger trignocephalus</i>	chameleon goby	1	0.008
<i>Acanthogobius flavimanus</i>	yellowfin goby	6	0.122
		13	0.221
Shellfish			
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	1	0.152
<i>Heptacarpus paludicola</i>	California coastal shrimp	1	0.001
<i>Lysmata californica</i>	red rock shrimp	2	0.002
<i>Panulirus interruptus</i>	California spiny lobster	3	2.129
		7	2.284
Non-Shellfish			
<i>Triopha maculata</i>	spotted triopha	1	0.001
		1	0.001

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI6

Start Date: February 9, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
None			
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Hemigrapsus oregonensis</i>	yellow shore crab	1	0.002
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.003
		3	0.006
Non-Shellfish			
<i>Diaulula sandiegensis</i>	ring-spotted dorid	1	0.002
<i>Pisaster</i> sp	sea star, unid.	1	0.143
<i>Parastichopus parvimensis</i>	warty sea cucumber	1	0.133
		3	0.278

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI7
Start Date: February 16, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	1	0.007
<i>Embiotoca jacksoni</i>	black perch	1	0.023
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.006
<i>Heterostichus rostratus</i>	giant kelpfish	2	0.037
<i>Urobatis halleri</i>	round stingray	1	0.137
<i>Acanthogobius flavimanus</i>	yellowfin goby	1	0.017
		7	0.227
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.001
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	4	1.023
		6	1.025
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	1	0.001
Pycnogonida	sea spider, unid.	1	0.001
		2	0.002

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI8
Start Date: February 23, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	1	0.003
<i>Embiotoca jacksoni</i>	black perch	1	0.024
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.025
<i>Urobatis halleri</i>	round stingray	1	0.348
<i>Acanthogobius flavimanus</i>	yellowfin goby	2	0.032
		6	0.432
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.002
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.002
<i>Heptacarpus paludicola</i>	California coastal shrimp	1	0.001
<i>Panulirus interruptus</i>	California spiny lobster	1	0.432
		6	0.437
Non-Shellfish			
Cnidaria	sea jelly, unid.	1	0.028
Holothuroidea	sea cucumber, unid.	1	0.001
<i>Pleurobranchaea californica</i>	California sea slug	1	1.778
		3	1.807

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI9

Start Date: March 2, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.013
<i>Urobatis halleri</i>	round stingray	1	0.217
		2	0.230
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.005
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.002
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	1	0.313
<i>Heptacarpus paludicola</i>	California coastal shrimp	1	0.001
<i>Cancer antennarius</i>	Pacific rock crab	1	0.335
<i>Heptacarpus sp</i>	coastal shrimp, unid.	2	0.002
		10	0.658
Non-Shellfish			
<i>Hemissenda crassicornis</i>	hemissenda	1	0.001
<i>Diaulula sandiegensis</i>	ring-spotted dorid	1	0.003
		2	0.004

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI10
Start Date: March 9, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Urobatis halleri</i>	round stingray	3	0.739
<i>Tridentiger trionocephalus</i>	chameleon goby	1	0.006
<i>Acanthogobius flavimanus</i>	yellowfin goby	1	0.019
		5	0.764
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.005
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	2	0.419
<i>Heptacarpus sp</i>	coastal shrimp, unid.	1	0.001
		7	0.426
Non-Shellfish			
<i>Navanax inermis</i>	California aglaja	1	0.031
		1	0.031

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI11
Start Date: March 16, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Acanthogobius flavimanus</i>	yellowfin goby	1	0.026
		1	0.026
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Hemigrapsus oregonensis</i>	yellow shore crab	1	0.005
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.003
<i>Heptacarpus paludicola</i>	California coastal shrimp	2	0.002
<i>Heptacarpus</i> sp	coastal shrimp, unid.	1	0.001
		7	0.012
Non-Shellfish			
<i>Pisaster</i> sp	sea star, unid.	1	1.194
Discodorididae	nudibranch, unid.	1	0.002
<i>Anisodoris nobilis</i>	Pacific sea-lemon	1	0.001
		3	1.197

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI12
Start Date: March 23, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Genyonemus lineatus</i>	white croaker	1	0.022
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.010
<i>Porichthys notatus</i>	plainfin midshipman	1	0.003
		3	0.035
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.002
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.001
<i>Panulirus interruptus</i>	California spiny lobster	1	0.772
		4	0.775
Non-Shellfish			
<i>Dendronotus iris</i>	giant-frond-aeolis	1	0.019
<i>Parastichopus parvimensis</i>	warty sea cucumber	1	0.047
<i>Ammothea hilgendorfi</i>	sea spider	3	0.002
<i>Scrippsia pacifica</i>	giant bell jelly	1	0.044
Ctenophora	comb jelly, unid.	1	0.006
		7	0.118

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI13
Start Date: March 30, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.126
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.118
<i>Urobatis halleri</i>	round stingray	2	0.587
<i>Acanthogobius flavimanus</i>	yellowfin goby	2	0.019
<i>Icelinus quadriseriatus</i>	yellowchin sculpin	1	0.005
		7	0.855
Shellfish			
<i>Portunus xantusii</i>	Xantus swimming crab	1	0.035
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.003
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	2	0.334
<i>Panulirus interruptus</i>	California spiny lobster	1	0.345
		5	0.717
Non-Shellfish			
<i>Hemissenda crassicornis</i>	hemissenda	2	0.001
<i>Anisodoris nobilis</i>	Pacific sea-lemon	1	0.009
		3	0.010

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI14

Start Date: April 6, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.005
<i>Porichthys notatus</i>	plainfin midshipman	1	0.001
<i>Embiotocidae</i>	surfperch, unid.	1	0.004
		3	0.010
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.007
		3	0.008
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	1	0.001
<i>Aplysia californica</i>	California seahare	1	0.118
<i>Anisodoris nobilis</i>	Pacific sea-lemon	1	0.012
		3	0.131

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI15
Start Date: April 13, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	1	0.025
<i>Embiotoca jacksoni</i>	black perch	7	0.049
<i>Pleuronichthys verticalis</i>	hornyhead turbot	1	0.089
<i>Porichthys myriaster</i>	specklefin midshipman	1	0.003
<i>Acanthogobius flavimanus</i>	yellowfin goby	2	0.039
<i>Rhacochilus vacca</i>	pile perch	1	0.059
		13	0.264
Shellfish			
<i>Pyromaia tuberculata</i>	tuberculate pear crab	3	0.005
<i>Heptacarpus paludicola</i>	California coastal shrimp	1	0.001
		4	0.006
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	4	0.002
Pycnogonida	sea spider, unid.	1	0.001
<i>Parastichopus parvimensis</i>	warty sea cucumber	1	0.007
<i>Parastichopus sp</i>	sea cucumber, unid.	1	0.001
		7	0.011

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI16

Start Date: April 20, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Atherinops affinis</i>	topsmelt	1	0.029
<i>Embiotoca jacksoni</i>	black perch	1	0.005
		2	0.034
Shellfish			
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.003
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	2	0.287
<i>Heptacarpus paludicola</i>	California coastal shrimp	1	0.001
		4	0.291
Non-Shellfish			
<i>Hemissenda crassicornis</i>	hemissenda	5	0.002
<i>Polycera hedgpethi</i>	Hedgpeth's polycera	1	0.001
<i>Leptopecten</i> sp	scallop, unid.	4	0.001
Pycnogonida	sea spider, unid.	1	0.001
<i>Parastichopus</i> sp	sea cucumber, unid.	1	0.001
		12	0.006

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI19

Start Date: May 11, 2006

	Taxon	Common Name	Survey Totals	
			Abundance	Biomass (kg)
Fish				
	<i>Cymatogaster aggregata</i>	shiner perch	5	0.072
	<i>Embiotoca jacksoni</i>	black perch	8	0.041
	<i>Gibbonsia elegans</i>	spotted kelpfish	2	0.013
	<i>Heterostichus rostratus</i>	giant kelpfish	1	0.024
	<i>Pleuronichthys verticalis</i>	hornyhead turbot	1	0.079
	<i>Porichthys myriaster</i>	specklefin midshipman	60	0.521
	<i>Porichthys notatus</i>	plainfin midshipman	6	0.023
	<i>Syngnathus leptorhynchus</i>	bay pipefish	1	0.006
	<i>Urobatis halleri</i>	round stingray	1	0.625
	<i>Tridentiger trigonocephalus</i>	chameleon goby	1	0.007
	<i>Acanthogobius flavimanus</i>	yellowfin goby	3	0.036
	<i>Paralabrax nebulifer</i>	barred sand bass	1	0.007
			90	1.454
Shellfish				
	<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
	<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.004
	<i>Heptacarpus paludicola</i>	California coastal shrimp	1	0.001
			4	0.006
Non-Shellfish				
	<i>Aplysia californica</i>	California seahare	1	0.177
	<i>Diaulula sandiegensis</i>	ring-spotted dorid	1	0.001
	<i>Ammothea hilgendorfi</i>	sea spider	2	0.001
			4	0.179

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI20
Start Date: May 18, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	4	0.039
<i>Embiotoca jacksoni</i>	black perch	16	0.083
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.039
<i>Porichthys myriaster</i>	specklefin midshipman	5	0.033
<i>Paralabrax nebulifer</i>	barred sand bass	2	0.017
		28	0.211
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.002
<i>Hemigrapsus oregonensis</i>	yellow shore crab	1	0.008
<i>Pyromaia tuberculata</i>	tuberculate pear crab	4	0.006
<i>Heptacarpus paludicola</i>	California coastal shrimp	2	0.002
<i>Pandalus danae</i>	dock shrimp	1	0.006
		10	0.024
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	2	0.002
<i>Parastichopus parvimensis</i>	warty sea cucumber	1	0.012
		3	0.014

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI21
Start Date: May 25, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.007
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.024
<i>Phanerodon furcatus</i>	white seaperch	3	0.027
<i>Pleuronichthys verticalis</i>	hornyhead turbot	1	0.077
<i>Porichthys notatus</i>	plainfin midshipman	1	0.007
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.139
		8	0.281
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.002
<i>Panulirus interruptus</i>	California spiny lobster	1	0.149
		3	0.151
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	3	0.002
<i>Parastichopus</i> sp	sea cucumber, unid.	1	0.001
		4	0.003

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI22
Start Date: June 1, 2006

	Taxon	Common Name	Survey Totals	
			Abundance	Biomass (kg)
Fish				
	<i>Cymatogaster aggregata</i>	shiner perch	20	0.256
	<i>Embiotoca jacksoni</i>	black perch	18	0.235
	<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.010
	<i>Leptocottus armatus</i>	Pacific staghorn sculpin	2	0.013
	<i>Phanerodon furcatus</i>	white seaperch	8	0.183
	<i>Porichthys myriaster</i>	specklefin midshipman	3	0.203
	<i>Urobatis halleri</i>	round stingray	1	0.672
	<i>Paralabrax nebulifer</i>	barred sand bass	1	0.005
			54	1.577
Shellfish				
	<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.004
			2	0.004
Non-Shellfish				
	<i>Hermisenda crassicornis</i>	hermissenda	22	0.005
	<i>Polycera atra</i>	orange-spike polycera	1	0.001
	Pycnogonida	sea spider, unid.	5	0.002
	<i>Parastichopus californicus</i>	California sea cucumber	1	0.018
			29	0.026

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI23
Start Date: June 8, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	3	0.033
<i>Embiotoca jacksoni</i>	black perch	3	0.011
<i>Heterostichus rostratus</i>	giant kelpfish	2	0.104
<i>Phanerodon furcatus</i>	white seaperch	1	0.002
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.016
		10	0.166
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.003
<i>Panulirus interruptus</i>	California spiny lobster	2	0.496
		5	0.499
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	32	0.008
<i>Polycera atra</i>	orange-spike polycera	2	0.001
<i>Flabellina trilineata</i>	threeline aeolis	1	0.001
<i>Dendronotus frondosus</i>	leafy dendronotid	2	0.001
<i>Triopha maculata</i>	spotted triopha	1	0.002
<i>Parastichopus parvimensis</i>	warty sea cucumber	2	0.345
		40	0.358

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI24
Start Date: June 15, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	5	0.017
<i>Gibbonsia elegans</i>	spotted kelpfish	3	0.025
<i>Hyperprosopon argenteum</i>	walleye surfperch	1	0.006
<i>Phanerodon furcatus</i>	white seaperch	1	0.117
<i>Porichthys myriaster</i>	specklefin midshipman	2	0.173
		12	0.338
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.005
<i>Cancer antennarius</i>	Pacific rock crab	1	0.324
<i>Pandalus danae</i>	dock shrimp	1	0.001
		5	0.331
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	52	0.015
<i>Polycera hedgpethi</i>	Hedgpeth's polycera	2	0.001
<i>Polycera atra</i>	orange-spike polycera	10	0.004
<i>Flabellina trilineata</i>	threeline aeolis	1	0.001
<i>Dirona picta</i>	spotted dirona	6	0.002
<i>Triopha maculata</i>	spotted triopha	5	0.002
		76	0.025

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI25

Start Date: June 22, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.084
<i>Pleuronichthys verticalis</i>	hornyhead turbot	1	0.220
<i>Urobatis halleri</i>	round stingray	1	0.347
<i>Tridentiger trignocephalus</i>	chameleon goby	1	0.007
		4	0.658
Shellfish			
<i>Crangon nigromaculata</i>	blackspotted bay shrimp	1	0.001
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	4	0.003
<i>Pyromaia tuberculata</i>	tuberculate pear crab	5	0.010
<i>Panulirus interruptus</i>	California spiny lobster	1	0.238
		11	0.252
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	36	0.012
<i>Polycera atra</i>	orange-spike polycera	1	0.001
<i>Leptopecten</i> sp	scallop, unid.	1	0.001
<i>Pycnogonida</i>	sea spider, unid.	6	0.002
		44	0.016

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI26
Start Date: June 29, 2006

	Taxon	Common Name	Survey Totals	
			Abundance	Biomass (kg)
Fish				
	<i>Cymatogaster aggregata</i>	shiner perch	15	0.021
	<i>Embiotoca jacksoni</i>	black perch	6	0.027
	<i>Engraulis mordax</i>	northern anchovy	1	0.001
	<i>Genyonemus lineatus</i>	white croaker	1	0.001
	<i>Heterostichus rostratus</i>	giant kelpfish	1	0.056
	<i>Phanerodon furcatus</i>	white seaperch	3	0.033
	<i>Pleuronichthys verticalis</i>	hornyhead turbot	1	0.116
			28	0.255
Shellfish				
	<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.002
	<i>Pyromaia tuberculata</i>	tuberculate pear crab	13	0.007
	<i>Cancer antennarius</i>	Pacific rock crab	1	0.416
	<i>Panulirus interruptus</i>	California spiny lobster	1	0.112
			17	0.537
Non-Shellfish				
	<i>Hermisenda crassicornis</i>	hermissenda	45	0.014
	<i>Leptopecten</i> sp	scallop, unid.	2	0.001
	<i>Flabellina trilineata</i>	threeline aeolis	1	0.001
	<i>Dirona picta</i>	spotted dirona	1	0.001
	Pycnogonida	sea spider, unid.	14	0.002
	<i>Parastichopus parvimensis</i>	warty sea cucumber	1	0.042
	<i>Parastichopus californicus</i>	California sea cucumber	1	0.035
			65	0.096

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI27
Start Date: July 6, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	5	0.130
<i>Genyonemus lineatus</i>	white croaker	2	0.003
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.009
<i>Syngnathus leptorhynchus</i>	bay pipefish	1	0.002
<i>Urobatis halleri</i>	round stingray	4	0.797
		13	0.941
Shellfish			
<i>Portunus xantusii</i>	Xantus swimming crab	1	0.040
<i>Pyromaia tuberculata</i>	tuberculate pear crab	5	0.006
<i>Heptacarpus paludicola</i>	California coastal shrimp	1	0.001
<i>Panulirus interruptus</i>	California spiny lobster	1	0.343
		8	0.390
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	18	0.006
<i>Leptopecten</i> sp	scallop, unid.	1	0.005
<i>Aplysia</i> sp	seahare, unid.	1	0.310
<i>Pycnogonida</i>	sea spider, unid.	3	0.002
		23	0.323

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI28
Start Date: July 13, 2006

	Taxon	Common Name	Survey Totals	
			Abundance	Biomass (kg)
Fish				
	<i>Cymatogaster aggregata</i>	shiner perch	1	0.001
	<i>Embiotoca jacksoni</i>	black perch	2	0.007
	<i>Engraulis mordax</i>	northern anchovy	2	0.001
	<i>Phanerodon furcatus</i>	white seaperch	1	0.001
	<i>Porichthys myriaster</i>	specklefin midshipman	1	0.444
	<i>Urobatis halleri</i>	round stingray	2	0.708
	<i>Paralabrax nebulifer</i>	barred sand bass	1	0.012
			10	1.174
Shellfish				
	<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.002
	<i>Pyromaia tuberculata</i>	tuberculate pear crab	4	0.002
	<i>Cancer antennarius</i>	Pacific rock crab	1	0.295
	<i>Panulirus interruptus</i>	California spiny lobster	1	0.249
			9	0.548
Non-Shellfish				
	<i>Hermisenda crassicornis</i>	hermissenda	5	0.003
	<i>Leptopecten</i> sp	scallop, unid.	1	0.001
	<i>Diaulula sandiegensis</i>	ring-spotted dorid	1	0.003
	Pycnogonida	sea spider, unid.	1	0.001
	<i>Parastichopus parvimensis</i>	warty sea cucumber	3	0.318
			11	0.326

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI29

Start Date: July 20, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	4	0.007
<i>Engraulis mordax</i>	northern anchovy	1	0.001
<i>Urobatis halleri</i>	round stingray	8	1.599
<i>Rhacochilus vacca</i>	pile perch	2	0.339
		15	1.946
Shellfish			
<i>Portunus xantusii</i>	Xantus swimming crab	1	0.024
<i>Pyromaia tuberculata</i>	tuberculate pear crab	20	0.013
<i>Farfantepenaeus californiensis</i>	yellowleg shrimp	1	0.006
<i>Panulirus interruptus</i>	California spiny lobster	2	0.422
		24	0.465
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	10	0.002
<i>Triopha maculata</i>	spotted triopha	2	0.001
Pycnogonida	sea spider, unid.	28	0.002
<i>Parastichopus parvimensis</i>	warty sea cucumber	2	0.154
<i>Parastichopus californicus</i>	California sea cucumber	1	0.026
		43	0.185

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI30
Start Date: July 27, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.014
<i>Heterostichus rostratus</i>	giant kelpfish	3	0.195
<i>Urobatis halleri</i>	round stingray	11	2.052
<i>Paralabrax nebulifer</i>	barred sand bass	3	0.024
		18	2.285
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	4	0.002
<i>Pyromaia tuberculata</i>	tuberculate pear crab	8	0.007
<i>Panulirus interruptus</i>	California spiny lobster	2	0.379
		14	0.388
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	14	0.005
<i>Aplysia californica</i>	California seahare	1	0.563
<i>Triopha maculata</i>	spotted triopha	1	0.001
<i>Diaulula sandiegensis</i>	ring-spotted dorid	4	0.002
<i>Pycnogonida</i>	sea spider, unid.	25	0.003
		45	0.574

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI31
Start Date: August 3, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.098
<i>Porichthys myriaster</i>	specklefin midshipman	1	0.327
<i>Urobatis halleri</i>	round stingray	45	9.318
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.301
		48	10.044
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	7	0.013
<i>Panulirus interruptus</i>	California spiny lobster	5	0.924
		14	0.938
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	6	0.002
<i>Triopha maculata</i>	spotted triopha	1	0.001
<i>Diaulula sandiegensis</i>	ring-spotted dorid	1	0.002
Pycnogonida	sea spider, unid.	26	0.002
Holothuroidea	sea cucumber, unid.	1	0.003
		35	0.010

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI32

Start Date: August 10, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	3	0.017
<i>Embiotoca jacksoni</i>	black perch	1	0.340
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.009
<i>Urobatis halleri</i>	round stingray	48	9.878
<i>Paralabrax nebulifer</i>	barred sand bass	2	0.035
		55	10.279
Shellfish			
<i>Pyromaia tuberculata</i>	tuberculate pear crab	11	0.015
<i>Panulirus interruptus</i>	California spiny lobster	7	1.113
<i>Pandalus stenolepis</i>	roughpatch shrimp	1	0.002
		19	1.130
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	3	0.002
<i>Aurelia aurita</i>	moon jelly	1	0.010
<i>Leptopecten</i> sp	scallop, unid.	2	0.002
<i>Triopha maculata</i>	spotted triopha	1	0.001
<i>Diaulula sandiegensis</i>	ring-spotted dorid	1	0.001
Pycnogonida	sea spider, unid.	100	0.002
<i>Parastichopus parvimensis</i>	warty sea cucumber	1	0.046
		109	0.064

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI33

Start Date: August 17, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.008
<i>Urobatis halleri</i>	round stingray	21	4.670
		22	4.678
Shellfish			
<i>Crangon nigromaculata</i>	blackspotted bay shrimp	1	0.001
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.001
<i>Panulirus interruptus</i>	California spiny lobster	5	0.971
<i>Pinnixa</i> sp	pea crab, unid.	1	0.001
		11	0.975
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	1	0.001
<i>Triopha maculata</i>	spotted triopha	3	0.002
<i>Diaulula sandiegensis</i>	ring-spotted dorid	5	0.004
<i>Parastichopus californicus</i>	California sea cucumber	1	0.133
		10	0.140

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI34

Start Date: August 24, 2006

	Taxon	Common Name	Survey Totals	
			Abundance	Biomass (kg)
Fish				
	<i>Cymatogaster aggregata</i>	shiner perch	1	0.002
	<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.017
	<i>Heterostichus rostratus</i>	giant kelpfish	1	0.025
	<i>Urobatis halleri</i>	round stingray	45	9.163
	<i>Paralabrax nebulifer</i>	barred sand bass	2	0.030
			50	9.237
Shellfish				
	<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.002
	<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.001
	<i>Panulirus interruptus</i>	California spiny lobster	11	2.301
			14	2.304
Non-Shellfish				
	<i>Hermisenda crassicornis</i>	hermissenda	2	0.001
			2	0.001

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI35

Start Date: August 31, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.021
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.420
<i>Urobatis halleri</i>	round stingray	34	7.159
<i>Paralabrax nebulifer</i>	barred sand bass	3	0.036
		39	7.636
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.004
<i>Panulirus interruptus</i>	California spiny lobster	18	4.036
<i>Heptacarpus</i> sp	coastal shrimp, unid.	1	0.001
<i>Heptacarpus stimpsoni</i>	Stimpson coastal shrimp	1	0.001
		23	4.043
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	4	0.002
<i>Triopha maculata</i>	spotted triopha	1	0.001
Pycnogonida	sea spider, unid.	2	0.001
<i>Parastichopus californicus</i>	California sea cucumber	1	0.007
<i>Mopalia muscosa</i>	mossy chiton	1	0.001
		9	0.012

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI36
Start Date: September 7, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	1	0.043
<i>Embiotoca jacksoni</i>	black perch	1	0.006
<i>Phanerodon furcatus</i>	white seaperch	1	0.174
<i>Urobatis halleri</i>	round stingray	36	7.360
		39	7.583
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.002
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.001
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	1	0.082
<i>Panulirus interruptus</i>	California spiny lobster	6	1.328
		11	1.413
Non-Shellfish			
<i>Diaulula sandiegensis</i>	ring-spotted dorid	1	0.001
		1	0.001

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI37
Start Date: September 14, 2006

	Taxon	Common Name	Survey Totals	
			Abundance	Biomass (kg)
Fish				
	<i>Porichthys myriaster</i>	specklefin midshipman	1	0.209
	<i>Urobatis halleri</i>	round stingray	53	11.127
	<i>Paralabrax nebulifer</i>	barred sand bass	1	0.183
			55	11.519
Shellfish				
	<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.002
	<i>Panulirus interruptus</i>	California spiny lobster	4	0.875
	<i>Pandalus danae</i>	dock shrimp	1	0.001
			7	0.878
Non-Shellfish				
	<i>Diaulula sandiegensis</i>	ring-spotted dorida	2	0.002
			2	0.002

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI38

Start Date: September 21, 2006

	Taxon	Common Name	Survey Totals	
			Abundance	Biomass (kg)
Fish				
	<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.002
	<i>Urobatis halleri</i>	round stingray	31	6.234
			32	6.236
Shellfish				
	<i>Heptacarpus palpator</i>	intertidal coastal shrimp	5	0.002
	<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.001
	<i>Panulirus interruptus</i>	California spiny lobster	3	0.465
			9	0.468
Non-Shellfish				
	<i>Hermisenda crassicornis</i>	hermissenda	1	0.001
			1	0.001

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI39

Start Date: September 28, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	2	0.142
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.022
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.013
<i>Urobatis halleri</i>	round stingray	50	9.400
<i>Rhacochilus vacca</i>	pile perch	1	0.287
<i>Paralabrax nebulifer</i>	barred sand bass	2	0.040
		57	9.904
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.001
<i>Lysmata californica</i>	red rock shrimp	1	0.001
<i>Panulirus interruptus</i>	California spiny lobster	8	1.817
		12	1.819

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI40

Start Date: October 5, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Gibbonsia elegans</i>	spotted kelpfish	2	0.010
<i>Urobatis halleri</i>	round stingray	52	9.482
		54	9.492
Shellfish			
<i>Portunus xantusii</i>	Xantus swimming crab	1	0.043
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.002
<i>Cancer anthonyi</i>	yellow crab	1	0.039
<i>Panulirus interruptus</i>	California spiny lobster	1	0.180
		6	0.264

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI41

Start Date: October 12, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.119
<i>Gibbonsia elegans</i>	spotted kelpfish	1	0.008
<i>Urobatis halleri</i>	round stingray	73	13.478
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.018
		76	13.623
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	2	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.001
<i>Panulirus interruptus</i>	California spiny lobster	2	0.439
		5	0.441

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI42

Start Date: October 19, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.055
<i>Syngnathus leptorhynchus</i>	bay pipefish	1	0.003
<i>Urobatis halleri</i>	round stingray	65	12.647
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.014
		68	12.719
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.002
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.001
<i>Panulirus interruptus</i>	California spiny lobster	2	0.322
		6	0.325
Non-Shellfish			
<i>Hermisenda crassicornis</i>	hermissenda	1	0.001
Gastropoda	gastropod, unid.	1	0.007
		2	0.008

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI43

Start Date: October 26, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.211
<i>Paralichthys californicus</i>	California halibut	1	0.145
<i>Urobatis halleri</i>	round stingray	31	5.989
<i>Rhacochilus vacca</i>	pile perch	1	0.178
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.009
		35	6.532
Shellfish			
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.004
<i>Panulirus interruptus</i>	California spiny lobster	2	0.712
		4	0.716

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI44

Start Date: November 2, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Gobiesox rhesodon</i>	California clingfish	1	0.001
<i>Urobatis halleri</i>	round stingray	89	16.259
<i>Acanthogobius flavimanus</i>	yellowfin goby	2	0.071
<i>Paralabrax nebulifer</i>	barred sand bass	3	0.099
		95	16.430
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	5	0.002
<i>Pyromaia tuberculata</i>	tuberculate pear crab	3	0.009
<i>Cancer antennarius</i>	Pacific rock crab	1	0.098
<i>Panulirus interruptus</i>	California spiny lobster	4	0.949
		13	1.058

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI45

Start Date: November 9, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Heterostichus rostratus</i>	giant kelpfish	1	0.001
<i>Paralichthys californicus</i>	California halibut	1	0.680
<i>Urobatis halleri</i>	round stingray	18	3.018
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.078
		21	3.777
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.003
		3	0.003

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI46

Start Date: November 16, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Paralichthys californicus</i>	California halibut	1	0.060
<i>Urobatis halleri</i>	round stingray	28	5.858
		29	5.918
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	10	0.005
<i>Pyromaia tuberculata</i>	tuberculate pear crab	1	0.001
		11	0.006

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI47

Start Date: November 21, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.187
<i>Urobatis halleri</i>	round stingray	28	6.199
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.038
		30	6.424
Shellfish			
<i>Octopus bimaculatus/bimaculoides</i>	California two-spot octopus	1	0.186
		1	0.186

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI48

Start Date: November 30, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.017
<i>Urobatis halleri</i>	round stingray	42	10.070
		43	10.087
Shellfish			
<i>Portunus xantusii</i>	Xantus swimming crab	1	0.008
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	4	0.002
<i>Pyromaia tuberculata</i>	tuberculate pear crab	3	0.005
<i>Panulirus interruptus</i>	California spiny lobster	4	0.732
		12	0.747

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI49

Start Date: December 7, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Cymatogaster aggregata</i>	shiner perch	1	0.008
<i>Embiotoca jacksoni</i>	black perch	2	0.208
<i>Urobatis halleri</i>	round stingray	8	1.770
		11	1.986
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	3	0.001
		3	0.001

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI50

Start Date: December 14, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	1	0.024
<i>Gillichthys mirabilis</i>	longjaw mudsucker	1	0.001
<i>Urobatis halleri</i>	round stingray	12	2.588
<i>Paralabrax nebulifer</i>	barred sand bass	1	0.008
		15	2.621
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
<i>Pyromaia tuberculata</i>	tuberculate pear crab	2	0.004
<i>Panulirus interruptus</i>	California spiny lobster	2	0.473
		5	0.478

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI51

Start Date: December 21, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	2	0.362
<i>Urobatis halleri</i>	round stingray	16	3.085
<i>Paralabrax maculatofasciatus</i>	spotted sand bass	1	0.022
		19	3.469
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	5	0.002
<i>Panulirus interruptus</i>	California spiny lobster	1	0.333
		6	0.335

Harbor Generating Station - Normal Operation Impingement Data - Fish

Survey: HGSFI52

Start Date: December 28, 2006

Taxon	Common Name	Survey Totals	
		Abundance	Biomass (kg)
Fish			
<i>Embiotoca jacksoni</i>	black perch	2	0.129
<i>Urobatis halleri</i>	round stingray	12	1.992
<i>Tridentiger trionocephalus</i>	chameleon goby	1	0.003
		15	2.124
Shellfish			
<i>Heptacarpus palpator</i>	intertidal coastal shrimp	1	0.001
		1	0.001