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Parameter	MDL	RL	Units	Screening Criteria		LA 30	LA 32B	LA 33	LA 35	LA 39	LA 41	LA 44	LA 46
General Chemistry													
Carbon, Dissolved Organic	0.1	0.2	mg/L			0.5	0.7	0.9	0.7	0.8	0.7	0.6	0.7
Carbon, Total Organic	0.1	0.2	mg/L			0.8	0.8	0.7	0.9	0.8	0.7	0.7	0.8
Oil and Grease	1	5	mg/L			1.1	ND	ND	ND	ND	ND	ND	ND
Domoic Acid	0.01		ug/L			ND	ND	ND	ND	ND	ND	ND	ND
Ammonia	0.03	0.03	mg/L			0.07	0.07	0.07	0.07	0.08	0.06	0.06	0.07
Nitrate	0.01	0.05	mg/L			0.02	0.02	0.02	0.03	0.02	0.01	0.03	0.02
Nitrite	0.01	0.05	mg/L			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
MBAS	0.005	0.01	mg/L			0.017	0.015	0.019	0.015	0.015	0.015	0.014	0.015
Total Dissolved Solids	0.1	5	mg/L			34750	32950	34700	31200	32800	34600	33750	33750
Hardness as CaCO3	1	5	mg/L			5022	5137.7	4888.5	4930.8	4982.3	5014.9	4903.3	4866.5
Total Phosphorus	0.02	0.05	mg/L			ND	ND	ND	0.04	ND	ND	ND	ND
Total Suspended Solids	0.5	5	mg/L			6.7	7.7	8.7	3.3	1.3	2.7	3	7
Turbidity	1	2	NTU			2.3	4.6	2.2	1.9	2.3	1.6	1.3	1.5
PCBs and Pesticides				CMC	CCC								
Aroclor 1016	10	20	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	10	20	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	10	20	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	10	20	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	10	20	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	10	20	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	10	20	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB018	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB028	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB031	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB033	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB037	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB044	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB049	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB052	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB066	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB070	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB074	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB077	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB081	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB087	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB095	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB097	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB099	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB101	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND

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PCB105	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB110	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB114	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB118	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB119	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB123	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB126	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB128	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB138	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB141	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB149	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB151	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB153	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB156	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB157	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB158	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB167	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB168+132	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB169	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB170	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB174	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB177	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB180	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB183	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB187	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB189	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB194	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB195	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB200	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB201	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB206	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB209	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDD	100	200	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDE	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDT	100	200	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDD	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDT	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Aldrin	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
BHC-alpha	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
BHC-beta	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND

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BHC-delta	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
BHC-gamma	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Chlordane-alpha	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Chlordane-gamma	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
cis-Nonachlor	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
DCPA (Dacthal)	5	10	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Dicofol	50	100	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan Sulfate	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan-I	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan-II	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Endrin	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Endrin Aldehyde	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Endrin Ketone	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Mirex	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Oxychlordane	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
PCB008	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Perthane	5	10	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	10	50	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
trans-Nonachlor	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Bolstar (Sulprofos)	2	4	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Chlorpyrifos	1	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Demeton	1	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Diazinon	2	4	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Dichlorvos	3	6	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Dimethoate	3	6	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Disulfoton	1	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Ethoprop (Ethoprofos)	1	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Fenchlorphos (Ronnel)	2	4	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Fensulfothion	1	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Fenthion	2	4	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Malathion	3	6	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Merphos	1	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Methyl Parathion	1	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Mevinphos (Phosdrin)	8	16	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Phorate	6	12	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Tetrachlorvinphos (Stirofos)	2	4	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Tokuthion	3	6	ng/L			ND	ND	ND	ND	ND	ND	ND	ND

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Trichloronate	1	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Total PCB/Pesticides						ND	ND	ND	ND	ND	ND	ND	ND
PAHs													
1-Methylnaphthalene	1	5	ng/L			1.2	ND	2	ND	3.8	5.8	3.9	2.7
1-Methylphenanthrene	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2,3,5-Trimethylnaphthalene	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dimethylnaphthalene	50	100	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	1	5	ng/L			1.9	2.9	3.3	ND	4.3	4.2	4.5	2.8
Acenaphthene	**1**	**5**	**ng/L**			**16.9**	**29.6**	**18.5**	**12.5**	**47**	**15.8**	**38.2**	**35.9**
Acenaphthylene	1	5	ng/L			ND	4.5	2.5	ND	5.9	ND	4	2.4
Anthracene	1	5	ng/L			ND	13.9	6.9	ND	13.1	ND	14.7	7
Benz[a]anthracene	1	5	ng/L			ND	18.4	ND	ND	8	ND	6.4	ND
Benzo[a]pyrene	1	5	ng/L			ND	25.2	ND	ND	ND	ND	5.2	3.1
Benzo[b]fluoranthene	1	5	ng/L			5.3	18.5	6.9	ND	10.4	7.2	7.4	11.5
Benzo[e]pyrene	1	5	ng/L			ND	20.7	7.2	6.4	9.9	ND	5.5	5
Benzo[g,h,i]perylene	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene	1	5	ng/L			ND	7	ND	ND	ND	ND	5.2	2.4
Biphenyl	1	5	ng/L			ND	1.1	2.2	2.7	2.3	ND	4.7	4.8
Chrysene	1	5	ng/L			ND	32.8	8.7	5.1	12.4	ND	9.1	7.9
Dibenz[a,h]anthracene	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Dibenzothiophene	1	5	ng/L			ND	ND	ND	ND	6.3	ND	1.9	1.9
Fluoranthene	1	5	ng/L			31.2	68.3	39.9	25.5	78.4	35.3	61.9	64.7
Fluorene	1	5	ng/L			2.4	13.2	8	ND	13.1	5	11.1	7.7
Indeno[1,2,3-c,d]pyrene	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	1	5	ng/L			ND	6.8	6.1	3.3	10.8	7.2	12.3	3.8
Perylene	1	5	ng/L			ND	5.3	ND	ND	ND	ND	2.2	ND
Phenanthrene	1	5	ng/L			10.4	20.1	16	7.1	28.6	ND	17.9	19
Pyrene	1	5	ng/L			6.7	25.1	12.5	11.5	22.4	13.6	24.1	24.3
Total PAHs						**76**	**313.4**	**140.7**	**74.1**	**276.7**	**94.1**	**240.2**	**206.9**
Phenols													
2,4,6-Trichlorophenol	50	100	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dichlorophenol	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dinitrophenol	1	5	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	100	200	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2-Methyl-4,6-dinitrophenol	100	200	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	50	100	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	100	200	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	100	200	ng/L			ND	ND	ND	ND	ND	ND	ND	ND

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Pentachlorophenol	50	100	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Phenol	100	200	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Total Phenols						ND	ND	ND	ND	ND	ND	ND	ND
Pyrethroids													
Allethrin by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Bifenthrin by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Cyfluthrin by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Cypermethrin by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Danitol by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Deltamethrin by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Esfenvalerate by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Fenvalerate by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Fluvalinate by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
L-Cyhalothrin by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Permethrin by NCI	5	25	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Piperonyl Butoxide	5	20	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Prallethrin by NCI	0.5	2	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Total Pyrethroids						ND	ND	ND	ND	ND	ND	ND	ND
Phthalates													
bis(2-Ethylhexyl) Phthalate	**100**	**125**	**ng/L**			**137732**	**2610.5**	**60945**	**9472**	**937.4**	**8313.8**	**15750**	**54013**
Butylbenzyl Phthalate	25	50	ng/L			ND	54.8	54.4	50.3	44.7	61.7	73.2	ND
Diethyl Phthalate	100	125	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	50	75	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl Phthalate	75	100	ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Di-n-octyl Phthalate	10	20	ng/L			38.3	ND	149.2	ND	ND	ND	ND	20.9
Total Phthalates						**137770**	**2665.3**	**61148**	**9522.3**	**982.1**	**8375.5**	**15823**	**54034**
TKN	0.46	0.50	mg/L			0.70	0.98	0.98	0.84	0.84	ND	ND	0.70
TPH as Diesel		1	ug/L			ND	ND	ND	ND	ND	ND	ND	ND
TPH as Gasoline		1	ug/L			ND	ND	ND	ND	ND	ND	ND	ND
Butyltins													
Tetrabutyltin	1		ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	1		ng/L	0.42	0.0074	ND	ND	ND	ND	ND	ND	ND	ND
Dibutyltin	1		ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Monobutyltin	1		ng/L			ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Metals				CMC	CCC								

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Aluminum (Al)	3	6	ug/L			ND	ND	ND	ND	ND	ND	3	ND
Antimony (Sb)	0.01	0.015	ug/L			0.17	0.16	0.14	0.05	0.26	0.17	0.18	0.16
Arsenic (As)	0.01	0.015	ug/L			1.3	1.32	1.38	1.78	1.8	1.27	1.21	1.33
Beryllium (Be)	0.005	0.01	ug/L			ND	ND	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	0.005	0.01	ug/L	40	8.8	0.032	0.034	0.034	0.025	0.036	0.034	0.032	0.03
Chromium (Cr)	0.025	0.05	ug/L	1100	50	0.156	0.158	0.165	0.174	0.167	0.143	0.133	0.147
Cobalt (Co)	0.005	0.01	ug/L			0.023	0.043	0.046	0.04	0.041	0.047	0.03	0.032
Copper (Cu)	**0.01**	**0.02**	**ug/L**	**4.8**	**3.1**	**0.82**	**0.8**	**0.96**	**0.74**	**1.21**	**1.09**	**1.3**	**1.39**
Iron (Fe)	0.5	1	ug/L			ND	ND	ND	ND	0.5	0.7	ND	ND
Lead (Pb)	**0.005**	**0.01**	**ug/L**	**210**	**8.1**	**0.114**	**0.036**	**0.244**	**0.311**	**0.043**	**0.123**	**0.286**	**0.412**
Manganese (Mn)	**0.01**	**0.02**	**ug/L**			**2.66**	**3.47**	**2.77**	**3.58**	**3.62**	**3.39**	**4.61**	**4.74**
Mercury (Hg)	0.01	0.02	ug/L	1.8	0.94	ND	ND	0.01	ND	ND	ND	ND	ND
Molybdenum (Mo)	0.005	0.01	ug/L			9.269	9.307	9.259	ND	9.098	8.883	8.904	9.167
Nickel (Ni)	0.005	0.01	ug/L	74	8.2	0.355	0.432	0.466	0.344	0.554	0.36	0.361	0.422
Selenium (Se)	0.01	0.015	ug/L	290	71	0.02	0.03	0.02	ND	0.02	0.02	0.02	0.01
Silver (Ag)	0.02	0.04	ug/L	1.9		ND	ND	ND	ND	ND	ND	ND	ND
Thallium (Tl)	0.005	0.01	ug/L			0.012	0.013	0.013	0.012	0.012	0.013	0.013	0.013
Tin (Sn)	0.005	0.01	ug/L			ND	ND	ND	ND	0.009	ND	ND	ND
Titanium (Ti)	0.035	0.07	ug/L			0.056	ND	ND	ND	0.043	0.061	ND	0.091
Vanadium (V)	0.02	0.04	ug/L			1.81	1.88	1.92	2.06	2.02	1.82	1.75	1.81
Zinc (Zn)	0.005	0.01	ug/L	90	81	2.916	2.794	2.549	2.262	5.99	3.967	6.7	6.49
Total Metals													
Aluminum (Al)	3	6	ug/L			123	246	157	77	62	53	57	44
Antimony (Sb)	0.01	0.015	ug/L			0.14	0.11	0.12	0.11	0.2	0.21	0.16	0.17
Arsenic (As)	0.01	0.015	ug/L	69	36	1.42	1.53	1.42	1.43	1.54	1.41	1.36	1.36
Beryllium (Be)	0.005	0.01	ug/L			ND	0.006	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	0.005	0.01	ug/L			0.034	0.036	0.037	0.032	0.037	0.039	0.038	0.034
Chromium (Cr)	0.025	0.05	ug/L			0.489	0.754	0.631	0.387	0.362	0.33	0.353	0.401
Cobalt (Co)	0.005	0.01	ug/L			0.086	0.168	0.115	0.08	0.077	0.081	0.061	0.078
Copper (Cu)	**0.01**	**0.02**	**ug/L**			**1.64**	**1.72**	**2.01**	**1.3**	**2.14**	**1.93**	**2.21**	**2.29**
Iron (Fe)	0.5	1	ug/L			161	258.5	164.6	74.5	71.5	80.7	75.1	59.9
Lead (Pb)	**0.005**	**0.01**	**ug/L**			**0.616**	**0.581**	**1.163**	**0.96**	**4.846**	**0.586**	**1.031**	**1.256**
Manganese (Mn)	**0.01**	**0.02**	**ug/L**			**6.53**	**10.89**	**7.45**	**5.9**	**5.24**	**5.78**	**7.15**	**6.24**
Mercury (Hg)	0.01	0.02	ug/L			ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum (Mo)	0.005	0.01	ug/L			9.117	8.738	8.898	9.015	9.312	9.8	9.834	9.723
Nickel (Ni)	0.005	0.01	ug/L			0.525	0.684	0.925	0.48	0.638	0.478	0.495	0.558
Selenium (Se)	0.01	0.015	ug/L			0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02
Silver (Ag)	0.02	0.04	ug/L			ND	ND	ND	ND	ND	ND	ND	ND
Thallium (Tl)	0.005	0.01	ug/L			0.015	0.015	0.014	0.013	0.013	0.013	0.013	0.013
Tin (Sn)	0.005	0.01	ug/L			0.018	0.024	0.026	0.014	0.027	0.026	0.013	0.016

Enhanced Monthly Water Quality Monitoring
Thursday, January 17, 2008

Parameter	MDL	RL	Units	Screening Criteria		LA 30	LA 32B	LA 33	LA 35	LA 39	LA 41	LA 44	LA 46
Titanium (Ti)	0.035	0.07	ug/L			9.111	16.731	10.231	6.499	4.86	4.504	4.845	3.248
Vanadium (V)	0.02	0.04	ug/L			2.33	2.9	2.5	2.24	2.27	2.14	2.11	2.05
Zinc (Zn)	0.005	0.01	ug/L			3.751	4.767	4.856	4.069	8.893	5.591	7.233	7.383
Bacteria													
Total Coliform / MTF 20	20		MPN/100mL			20	40	20	ND	ND	40	ND	ND
Fecal Coliform / MTF 20	20		MPN/100mL			ND	40	ND	ND	ND	20	ND	ND
Enterococci / MF 10	10		CFU/100mL			ND	10	ND	ND	10	10	10	30

MDL = method detection limit
RL = reporting limit
ND = not detected
NS = There is no analysis for these samples
* = no analysis was performed

Enhanced Monthly Water Quality Monitoring
Thursday, January 17, 2008

Parameter	MDL	RL	Units	Screening Criteria		LA 47	Equip Blank 1	Equip Blank 2
General Chemistry								
Carbon, Dissolved Organic	0.1	0.2	mg/L			0.6	ND	0.7
Carbon, Total Organic	0.1	0.2	mg/L			1	1.4	0.7
Oil and Grease	1	5	mg/L			ND	ND	ND
Domoic Acid	0.01		ug/L			ND	ND	ND
Ammonia	0.03	0.03	mg/L			0.07	0.27	0.27
Nitrate	0.01	0.05	mg/L			0.02	0.02	ND
Nitrite	0.01	0.05	mg/L			0.01	ND	ND
MBAS	0.005	0.01	mg/L			0.013	0.013	ND
Total Dissolved Solids	0.1	5	mg/L			34050	180	46
Hardness as CaCO3	1	5	mg/L			4713.1	12.3	1.3
Total Phosphorus	0.02	0.05	mg/L			ND	ND	ND
Total Suspended Solids	0.5	5	mg/L			5	ND	ND
Turbidity	1	2	NTU			2.6	ND	ND
PCBs and Pesticides				CMC	CCC			
Aroclor 1016	10	20	ng/L			ND	ND	ND
Aroclor 1221	10	20	ng/L			ND	ND	ND
Aroclor 1232	10	20	ng/L			ND	ND	ND
Aroclor 1242	10	20	ng/L			ND	ND	ND
Aroclor 1248	10	20	ng/L			ND	ND	ND
Aroclor 1254	10	20	ng/L			ND	ND	ND
Aroclor 1260	10	20	ng/L			ND	ND	ND
PCB018	1	5	ng/L			ND	ND	ND
PCB028	1	5	ng/L			ND	ND	ND
PCB031	1	5	ng/L			ND	ND	ND
PCB033	1	5	ng/L			ND	ND	ND
PCB037	1	5	ng/L			ND	ND	ND
PCB044	1	5	ng/L			ND	ND	ND
PCB049	1	5	ng/L			ND	ND	ND
PCB052	1	5	ng/L			ND	ND	ND
PCB066	1	5	ng/L			ND	ND	ND
PCB070	1	5	ng/L			ND	ND	ND
PCB074	1	5	ng/L			ND	ND	ND
PCB077	1	5	ng/L			ND	ND	ND
PCB081	1	5	ng/L			ND	ND	ND
PCB087	1	5	ng/L			ND	ND	ND
PCB095	1	5	ng/L			ND	ND	ND
PCB097	1	5	ng/L			ND	ND	ND
PCB099	1	5	ng/L			ND	ND	ND
PCB101	1	5	ng/L			ND	ND	ND

Enhanced Monthly Water Quality Monitoring
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Parameter	MDL	RL	Units	Screening Criteria		LA 47	Equip Blank 1	Equip Blank 2
PCB105	1	5	ng/L			ND	ND	ND
PCB110	1	5	ng/L			ND	ND	ND
PCB114	1	5	ng/L			ND	ND	ND
PCB118	1	5	ng/L			ND	ND	ND
PCB119	1	5	ng/L			ND	ND	ND
PCB123	1	5	ng/L			ND	ND	ND
PCB126	1	5	ng/L			ND	ND	ND
PCB128	1	5	ng/L			ND	ND	ND
PCB138	1	5	ng/L			ND	ND	ND
PCB141	1	5	ng/L			ND	ND	ND
PCB149	1	5	ng/L			ND	ND	ND
PCB151	1	5	ng/L			ND	ND	ND
PCB153	1	5	ng/L			ND	ND	ND
PCB156	1	5	ng/L			ND	ND	ND
PCB157	1	5	ng/L			ND	ND	ND
PCB158	1	5	ng/L			ND	ND	ND
PCB167	1	5	ng/L			ND	ND	ND
PCB168+132	1	5	ng/L			ND	ND	ND
PCB169	1	5	ng/L			ND	ND	ND
PCB170	1	5	ng/L			ND	ND	ND
PCB174	1	5	ng/L			ND	ND	ND
PCB177	1	5	ng/L			ND	ND	ND
PCB180	1	5	ng/L			ND	ND	ND
PCB183	1	5	ng/L			ND	ND	ND
PCB187	1	5	ng/L			ND	ND	ND
PCB189	1	5	ng/L			ND	ND	ND
PCB194	1	5	ng/L			ND	ND	ND
PCB195	1	5	ng/L			ND	ND	ND
PCB200	1	5	ng/L			ND	ND	ND
PCB201	1	5	ng/L			ND	ND	ND
PCB206	1	5	ng/L			ND	ND	ND
PCB209	1	5	ng/L			ND	ND	ND
2,4'-DDD	100	200	ng/L			ND	ND	ND
2,4'-DDE	1	5	ng/L			ND	ND	ND
2,4'-DDT	100	200	ng/L			ND	ND	ND
4,4'-DDD	1	5	ng/L			ND	ND	ND
4,4'-DDE	1	5	ng/L			ND	ND	ND
4,4'-DDT	1	5	ng/L			ND	ND	ND
Aldrin	1	5	ng/L			ND	ND	ND
BHC-alpha	1	5	ng/L			ND	ND	ND
BHC-beta	1	5	ng/L			ND	ND	ND

Enhanced Monthly Water Quality Monitoring
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Parameter	MDL	RL	Units	Screening Criteria		LA 47	Equip Blank 1	Equip Blank 2
BHC-delta	1	5	ng/L			ND	ND	ND
BHC-gamma	1	5	ng/L			ND	ND	ND
Chlordane-alpha	1	5	ng/L			ND	ND	ND
Chlordane-gamma	1	5	ng/L			ND	ND	ND
cis-Nonachlor	1	5	ng/L			ND	ND	ND
DCPA (Dacthal)	5	10	ng/L			ND	ND	ND
Dicofol	50	100	ng/L			ND	ND	ND
Dieldrin	1	5	ng/L			ND	ND	ND
Endosulfan Sulfate	1	5	ng/L			ND	ND	ND
Endosulfan-I	1	5	ng/L			ND	ND	ND
Endosulfan-II	1	5	ng/L			ND	ND	ND
Endrin	1	5	ng/L			ND	ND	ND
Endrin Aldehyde	1	5	ng/L			ND	ND	ND
Endrin Ketone	1	5	ng/L			ND	ND	ND
Heptachlor	1	5	ng/L			ND	ND	ND
Heptachlor Epoxide	1	5	ng/L			ND	ND	ND
Methoxychlor	1	5	ng/L			ND	ND	ND
Mirex	1	5	ng/L			ND	ND	ND
Oxychlordane	1	5	ng/L			ND	ND	ND
PCB008	1	5	ng/L			ND	ND	ND
Perthane	5	10	ng/L			ND	ND	ND
Toxaphene	10	50	ng/L			ND	ND	ND
trans-Nonachlor	1	5	ng/L			ND	ND	ND
Bolstar (Sulprofos)	2	4	ng/L			ND	ND	ND
Chlorpyrifos	1	2	ng/L			ND	ND	ND
Demeton	1	2	ng/L			ND	ND	ND
Diazinon	2	4	ng/L			ND	ND	ND
Dichlorvos	3	6	ng/L			ND	ND	ND
Dimethoate	3	6	ng/L			ND	ND	ND
Disulfoton	1	2	ng/L			ND	ND	ND
Ethoprop (Ethoprofos)	1	2	ng/L			ND	ND	ND
Fenchlorphos (Ronnel)	2	4	ng/L			ND	ND	ND
Fensulfothion	1	2	ng/L			ND	ND	ND
Fenthion	2	4	ng/L			ND	ND	ND
Malathion	3	6	ng/L			ND	ND	ND
Merphos	1	2	ng/L			ND	ND	ND
Methyl Parathion	1	2	ng/L			ND	ND	ND
Mevinphos (Phosdrin)	8	16	ng/L			ND	ND	ND
Phorate	6	12	ng/L			ND	ND	ND
Tetrachlorvinphos (Stirofos)	2	4	ng/L			ND	ND	ND
Tokuthion	3	6	ng/L			ND	ND	ND

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Parameter	MDL	RL	Units	Screening Criteria		LA 47	Equip Blank 1	Equip Blank 2
Trichloronate	1	2	ng/L			ND	ND	ND
Total PCB/Pesticides						ND	ND	ND
PAHs								
1-Methylnaphthalene	1	5	ng/L			ND	13.9	3.5
1-Methylphenanthrene	1	5	ng/L			ND	ND	ND
2,3,5-Trimethylnaphthalene	1	5	ng/L			ND	ND	ND
2,6-Dimethylnaphthalene	50	100	ng/L			ND	ND	ND
2-Methylnaphthalene	1	5	ng/L			3.9	12.1	7.8
Acenaphthene	**1**	**5**	**ng/L**			**17**	ND	ND
Acenaphthylene	1	5	ng/L			ND	ND	1.1
Anthracene	1	5	ng/L			ND	ND	ND
Benz[a]anthracene	1	5	ng/L			ND	ND	ND
Benzo[a]pyrene	1	5	ng/L			ND	ND	ND
Benzo[b]fluoranthene	1	5	ng/L			6.8	ND	ND
Benzo[e]pyrene	1	5	ng/L			4.5	ND	ND
Benzo[g,h,i]perylene	1	5	ng/L			ND	ND	ND
Benzo[k]fluoranthene	1	5	ng/L			2.2	ND	ND
Biphenyl	1	5	ng/L			4.9	7.3	28.7
Chrysene	1	5	ng/L			ND	ND	ND
Dibenz[a,h]anthracene	1	5	ng/L			ND	ND	ND
Dibenzothiophene	1	5	ng/L			1.9	ND	3.5
Fluoranthene	1	5	ng/L			33.7	5.7	3.7
Fluorene	1	5	ng/L			5.1	9.8	7.5
Indeno[1,2,3-c,d]pyrene	1	5	ng/L			ND	ND	ND
Naphthalene	1	5	ng/L			4.7	22.8	21.8
Perylene	1	5	ng/L			ND	ND	ND
Phenanthrene	1	5	ng/L			12.7	82.5	55.8
Pyrene	1	5	ng/L			11.7	4.3	ND
Total PAHs						**109.1**	**158.4**	**133.4**
Phenols								
2,4,6-Trichlorophenol	50	100	ng/L			ND	ND	ND
2,4-Dichlorophenol	1	5	ng/L			ND	ND	ND
2,4-Dimethylphenol	1	5	ng/L			ND	ND	ND
2,4-Dinitrophenol	1	5	ng/L			ND	ND	ND
2-Chlorophenol	100	200	ng/L			ND	ND	ND
2-Methyl-4,6-dinitrophenol	100	200	ng/L			ND	ND	ND
2-Nitrophenol	50	100	ng/L			ND	ND	ND
4-Chloro-3-methylphenol	100	200	ng/L			ND	ND	ND
4-Nitrophenol	100	200	ng/L			ND	ND	ND

Enhanced Monthly Water Quality Monitoring
Thursday, January 17, 2008

Parameter	MDL	RL	Units	Screening Criteria		LA 47	Equip Blank 1	Equip Blank 2
Pentachlorophenol	50	100	ng/L			ND	ND	ND
Phenol	100	200	ng/L			ND	148	ND
Total Phenols						ND	148	ND
Pyrethroids								
Allethrin by NCI	0.5	2	ng/L			ND	ND	ND
Bifenthrin by NCI	0.5	2	ng/L			ND	ND	ND
Cyfluthrin by NCI	0.5	2	ng/L			ND	ND	ND
Cypermethrin by NCI	0.5	2	ng/L			ND	ND	ND
Danitol by NCI	0.5	2	ng/L			ND	ND	ND
Deltamethrin by NCI	0.5	2	ng/L			ND	ND	ND
Esfenvalerate by NCI	0.5	2	ng/L			ND	ND	ND
Fenvalerate by NCI	0.5	2	ng/L			ND	ND	ND
Fluvalinate by NCI	0.5	2	ng/L			ND	ND	ND
L-Cyhalothrin by NCI	0.5	2	ng/L			ND	ND	ND
Permethrin by NCI	5	25	ng/L			ND	ND	ND
Piperonyl Butoxide	5	20	ng/L			ND	ND	ND
Prallethrin by NCI	0.5	2	ng/L			ND	ND	ND
Total Pyrethroids						ND	ND	ND
Phthalates								
bis(2-Ethylhexyl) Phthalate	**100**	**125**	**ng/L**			**46900**	**8155.8**	**12308.5**
Butylbenzyl Phthalate	25	50	ng/L			ND	1509	4390.4
Diethyl Phthalate	100	125	ng/L			ND	301.9	260.1
Dimethyl Phthalate	50	75	ng/L			ND	ND	ND
Di-n-butyl Phthalate	75	100	ng/L			ND	805.5	1421.9
Di-n-octyl Phthalate	10	20	ng/L			ND	50.3	19.1
Total Phthalates						**46900**	**10822.5**	**18400**
TKN	0.46	0.50	mg/L			0.70	0.70	0.56
TPH as Diesel		1	ug/L			ND	ND	ND
TPH as Gasoline		1	ug/L			ND	ND	ND
Butyltins								
Tetrabutyltin	1		ng/L			ND	ND	ND
Tributyltin	1		ng/L	0.42	0.0074	ND	ND	ND
Dibutyltin	1		ng/L			ND	77.7	ND
Monobutyltin	1		ng/L			ND	ND	ND
Dissolved Metals				CMC	CCC			

Enhanced Monthly Water Quality Monitoring
Thursday, January 17, 2008

Parameter	MDL	RL	Units	Screening Criteria		LA 47	Equip Blank 1	Equip Blank 2
Aluminum (Al)	3	6	ug/L			3	ND	ND
Antimony (Sb)	0.01	0.015	ug/L			0.19	0.06	0.03
Arsenic (As)	0.01	0.015	ug/L			1.24	ND	ND
Beryllium (Be)	0.005	0.01	ug/L			ND	ND	ND
Cadmium (Cd)	0.005	0.01	ug/L	40	8.8	0.035	0.02	0.029
Chromium (Cr)	0.025	0.05	ug/L	1100	50	0.141	ND	ND
Cobalt (Co)	0.005	0.01	ug/L			0.032	ND	ND
Copper (Cu)	**0.01**	**0.02**	**ug/L**	**4.8**	**3.1**	**1.02**	**1.08**	**0.99**
Iron (Fe)	0.5	1	ug/L			ND	ND	ND
Lead (Pb)	**0.005**	**0.01**	**ug/L**	**210**	**8.1**	**0.064**	**0.281**	**0.044**
Manganese (Mn)	**0.01**	**0.02**	**ug/L**			**3.23**	**0.09**	**0.4**
Mercury (Hg)	0.01	0.02	ug/L	1.8	0.94	ND	0.01	ND
Molybdenum (Mo)	0.005	0.01	ug/L			8.974	0.046	0.026
Nickel (Ni)	0.005	0.01	ug/L	74	8.2	0.364	0.262	0.394
Selenium (Se)	0.01	0.015	ug/L	290	71	0.03	ND	ND
Silver (Ag)	0.02	0.04	ug/L	1.9		ND	ND	ND
Thallium (Tl)	0.005	0.01	ug/L			0.013	ND	ND
Tin (Sn)	0.005	0.01	ug/L			ND	0.005	0.046
Titanium (Ti)	0.035	0.07	ug/L			0.09	ND	ND
Vanadium (V)	0.02	0.04	ug/L			1.81	ND	ND
Zinc (Zn)	0.005	0.01	ug/L	90	81	4.286	7.07	4.96
Total Metals								
Aluminum (Al)	3	6	ug/L			66	6	8
Antimony (Sb)	0.01	0.015	ug/L			0.14	0.02	0.08
Arsenic (As)	0.01	0.015	ug/L	69	36	1.36	ND	ND
Beryllium (Be)	0.005	0.01	ug/L			ND	ND	ND
Cadmium (Cd)	0.005	0.01	ug/L			0.039	0.019	0.024
Chromium (Cr)	0.025	0.05	ug/L			0.337	0.138	ND
Cobalt (Co)	0.005	0.01	ug/L			0.06	ND	ND
Copper (Cu)	**0.01**	**0.02**	**ug/L**			**1.76**	**1.17**	**1.41**
Iron (Fe)	0.5	1	ug/L			74	6.2	5.1
Lead (Pb)	**0.005**	**0.01**	**ug/L**			**0.333**	**0.36**	**0.141**
Manganese (Mn)	**0.01**	**0.02**	**ug/L**			**5.69**	**0.13**	**0.43**
Mercury (Hg)	0.01	0.02	ug/L			ND	ND	ND
Molybdenum (Mo)	0.005	0.01	ug/L			9.701	0.046	0.012
Nickel (Ni)	0.005	0.01	ug/L			0.47	0.39	2.329
Selenium (Se)	0.01	0.015	ug/L			0.03	ND	ND
Silver (Ag)	0.02	0.04	ug/L			ND	ND	ND
Thallium (Tl)	0.005	0.01	ug/L			0.013	ND	ND
Tin (Sn)	0.005	0.01	ug/L			0.015	0.069	0.026

Enhanced Monthly Water Quality Monitoring
Thursday, January 17, 2008

Parameter	MDL	RL	Units	Screening Criteria		LA 47	Equip Blank 1	Equip Blank 2
Titanium (Ti)	0.035	0.07	ug/L			4.539	0.167	0.079
Vanadium (V)	0.02	0.04	ug/L			2.12	0.02	ND
Zinc (Zn)	0.005	0.01	ug/L			5.706	8.813	5.81
Bacteria								
Total Coliform / MTF 20	20		MPN/100mL			20	ND	ND
Fecal Coliform / MTF 20	20		MPN/100mL			20	ND	ND
Enterococci / MF 10	10		CFU/100mL			ND	ND	ND

MDL = method detection limit
RL = reporting limit
ND = not detected
NS = There is no analysis for these samples
* = no analysis was performed

Average of Result	StationID								
ParameterName	LA-30	LA-32B	LA-33	LA-35	LA-39	LA-41	LA-44	LA-46	LA-47
BOD Bottom	0.8	0.8	0.9	0.7	1.3	0.8	0.6	0.6	0.9
BOD Surface	0.9	0.9	1.1	0.9	1.8	1.0	0.9	0.8	0.9
DO Bottom	6.7	6.7	6.7	6.6	6.7	6.5	6.5	6.5	6.6
DO Surface	6.4	6.5	6.6	6.5	6.6	6.5	6.4	6.3	6.4
Temperature, Bottom	16.8	16.1	16.0	16.1	16.0	16.9	16.8	16.9	16.9
Temperature, Surface	16.4	16.2	16.0	16.2	16.0	16.9	16.8	16.9	16.9
Transparency, Surface	8.4	7.1	7.5	9.0	9.2	9.2	9.7	10.5	9.1
(blank)									
Grand Total	8.1	7.8	7.9	8.0	8.2	8.4	8.4	8.5	8.4

Port of Los Angeles - Inner Harbor Water Quality Data

StationID	Date	Result	Units	ParameterName	min	max	avg	N of samples	Period
LA-30	10-Mar-05	0	mg/l	BOD Bottom					
LA-30	7-Feb-07	0.00	mg/l	BOD Bottom					
LA-30	24-Oct-07	0.00	mg/l	BOD Bottom					
LA-30	21-Dec-00	0.1	mg/L	BOD Bottom					
LA-30	17-Jan-02	0.1	mg/L	BOD Bottom					
LA-30	19-Dec-02	0.1	mg/L	BOD Bottom					
LA-30	13-Mar-03	0.1	mg/L	BOD Bottom					
LA-30	19-Jun-03	0.1	mg/L	BOD Bottom					
LA-30	25-Jan-07	0.1	mg/l	BOD Bottom					
LA-30	25-Jan-07	0.10	mg/l	BOD Bottom					
LA-30	25-Feb-00	0.2	mg/L	BOD Bottom					
LA-30	25-Jan-01	0.2	mg/L	BOD Bottom					
LA-30	13-Sep-01	0.2	mg/L	BOD Bottom					
LA-30	21-Feb-02	0.2	mg/L	BOD Bottom					
LA-30	9-Dec-02	0.2	mg/L	BOD Bottom					
LA-30	27-Apr-05	0.2	mg/l	BOD Bottom					
LA-30	17-Jan-08	0.20	mg/l	BOD Bottom					
LA-30	1-May-00	0.3	mg/L	BOD Bottom					
LA-30	3-Oct-00	0.3	mg/L	BOD Bottom					
LA-30	23-Aug-01	0.3	mg/L	BOD Bottom					
LA-30	16-Jan-03	0.3	mg/L	BOD Bottom					
LA-30	19-Feb-03	0.3	mg/L	BOD Bottom					
LA-30	9-Oct-03	0.3	mg/L	BOD Bottom					
LA-30	21-Jan-04	0.3	mg/L	BOD Bottom					
LA-30	13-Oct-04	0.3	mg/l	BOD Bottom					
LA-30	10-Nov-04	0.3	mg/l	BOD Bottom					
LA-30	20-Jan-05	0.3	mg/l	BOD Bottom					
LA-30	15-Nov-06	0.3	mg/l	BOD Bottom					
LA-30	15-Mar-07	0.30	mg/l	BOD Bottom					
LA-30	14-Feb-08	0.30	mg/l	BOD Bottom					
LA-30	30-Aug-00	0.4	mg/L	BOD Bottom					
LA-30	11-Jan-01	0.4	mg/L	BOD Bottom					
LA-30	13-Dec-01	0.4	mg/L	BOD Bottom					
LA-30	14-Mar-02	0.4	mg/L	BOD Bottom					
LA-30	17-Aug-06	0.4	mg/l	BOD Bottom					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	19-Dec-07	0.40	mg/l	BOD Bottom
LA-30	17-Apr-08	0.40	mg/l	BOD Bottom
LA-30	15-Sep-00	0.5	mg/L	BOD Bottom
LA-30	18-Jul-01	0.5	mg/L	BOD Bottom
LA-30	29-Aug-02	0.5	mg/L	BOD Bottom
LA-30	10-Feb-05	0.5	mg/l	BOD Bottom
LA-30	8-Dec-05	0.5	mg/l	BOD Bottom
LA-30	12-Jan-06	0.5	mg/l	BOD Bottom
LA-30	15-Nov-07	0.50	mg/l	BOD Bottom
LA-30	10-Jan-00	0.6	mg/L	BOD Bottom
LA-30	14-May-03	0.6	mg/L	BOD Bottom
LA-30	25-Feb-04	0.6	mg/L	BOD Bottom
LA-30	15-Sep-04	0.6	mg/l	BOD Bottom
LA-30	21-Sep-06	0.6	mg/l	BOD Bottom
LA-30	15-Feb-01	0.7	mg/L	BOD Bottom
LA-30	27-Mar-01	0.7	mg/L	BOD Bottom
LA-30	18-Aug-04	0.7	mg/l	BOD Bottom
LA-30	16-Feb-06	0.7	mg/l	BOD Bottom
LA-30	29-Nov-00	0.8	mg/L	BOD Bottom
LA-30	6-Jul-01	0.8	mg/L	BOD Bottom
LA-30	10-Mar-02	0.8	mg/L	BOD Bottom
LA-30	4-Oct-02	0.8	mg/L	BOD Bottom
LA-30	13-Nov-02	0.8	mg/L	BOD Bottom
LA-30	7-Aug-03	0.8	mg/L	BOD Bottom
LA-30	17-Mar-04	0.8	mg/L	BOD Bottom
LA-30	13-Apr-06	0.8	mg/l	BOD Bottom
LA-30	12-Apr-07	0.80	mg/l	BOD Bottom
LA-30	20-Mar-08	0.90	mg/l	BOD Bottom
LA-30	31-Jul-02	0.9	mg/L	BOD Bottom
LA-30	19-Nov-03	0.9	mg/L	BOD Bottom
LA-30	14-Apr-04	0.9	mg/L	BOD Bottom
LA-30	12-May-05	0.9	mg/l	BOD Bottom
LA-30	16-Nov-05	0.9	mg/l	BOD Bottom
LA-30	11-May-06	0.9	mg/l	BOD Bottom
LA-30	15-Jun-06	0.9	mg/l	BOD Bottom
LA-30	13-Apr-00	1	mg/L	BOD Bottom
LA-30	19-Apr-01	1	mg/L	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	16-May-02	1	mg/L	BOD Bottom					
LA-30	16-May-07	1.00	mg/l	BOD Bottom					
LA-30	9-Aug-07	1.00	mg/l	BOD Bottom					
LA-30	15-Sep-05	1.2	mg/l	BOD Bottom					
LA-30	18-Jul-07	1.20	mg/l	BOD Bottom					
LA-30	15-May-08	1.30	mg/l	BOD Bottom					
LA-30	20-Jun-02	1.3	mg/L	BOD Bottom					
LA-30	10-Jul-03	1.3	mg/L	BOD Bottom					
LA-30	16-Jun-04	1.3	mg/L	BOD Bottom					
LA-30	13-Oct-05	1.3	mg/l	BOD Bottom					
LA-30	21-Jul-04	1.4	mg/l	BOD Bottom					
LA-30	13-Jul-00	1.5	mg/L	BOD Bottom					
LA-30	4-Dec-03	1.5	mg/L	BOD Bottom					
LA-30	12-May-04	1.6	mg/L	BOD Bottom					
LA-30	9-Jun-05	1.6	mg/l	BOD Bottom					
LA-30	16-Jun-00	1.8	mg/L	BOD Bottom					
LA-30	5-Nov-01	1.8	mg/L	BOD Bottom					
LA-30	7-Jul-05	1.8	mg/l	BOD Bottom					
LA-30	12-Jun-08	2.00	mg/l	BOD Bottom	1.2	2	1.49375	16	2007-2008
LA-30	5-Dec-00	2.4	mg/L	BOD Bottom					
LA-30	10-Sep-03	2.4	mg/L	BOD Bottom					
LA-30	20-Jul-06	2.4	mg/l	BOD Bottom					
LA-30	11-Aug-05	3.8	mg/l	BOD Bottom					
LA-30	10-Dec-01	6.4	mg/L	BOD Bottom					
LA-32B	21-Sep-06	0	mg/l	BOD Bottom					
LA-32B	15-Mar-07	0.00	mg/l	BOD Bottom					
LA-32B	24-Oct-07	0.00	mg/l	BOD Bottom					
LA-32B	25-Feb-00	0.1	mg/L	BOD Bottom					
LA-32B	3-Oct-00	0.1	mg/L	BOD Bottom					
LA-32B	11-Jan-01	0.1	mg/L	BOD Bottom					
LA-32B	25-Jan-01	0.1	mg/L	BOD Bottom					
LA-32B	21-Feb-02	0.1	mg/L	BOD Bottom					
LA-32B	18-Feb-04	0.1	mg/L	BOD Bottom					
LA-32B	17-Jan-02	0.2	mg/L	BOD Bottom					
LA-32B	15-Sep-04	0.2	mg/l	BOD Bottom					
LA-32B	20-Jan-05	0.2	mg/l	BOD Bottom					
LA-32B	15-May-08	0.20	mg/l	BOD Bottom					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	1-May-00	0.3	mg/L	BOD Bottom
LA-32B	27-Mar-01	0.3	mg/L	BOD Bottom
LA-32B	13-Dec-01	0.3	mg/L	BOD Bottom
LA-32B	12-May-05	0.3	mg/l	BOD Bottom
LA-32B	25-Jan-07	0.3	mg/l	BOD Bottom
LA-32B	25-Jan-07	0.30	mg/l	BOD Bottom
LA-32B	17-Jan-08	0.30	mg/l	BOD Bottom
LA-32B	13-Mar-03	0.4	mg/L	BOD Bottom
LA-32B	10-Sep-03	0.4	mg/L	BOD Bottom
LA-32B	10-Nov-04	0.4	mg/l	BOD Bottom
LA-32B	22-Dec-04	0.4	mg/l	BOD Bottom
LA-32B	13-Oct-05	0.4	mg/l	BOD Bottom
LA-32B	30-Aug-00	0.5	mg/L	BOD Bottom
LA-32B	29-Nov-00	0.5	mg/L	BOD Bottom
LA-32B	23-Aug-01	0.5	mg/L	BOD Bottom
LA-32B	29-Aug-02	0.5	mg/L	BOD Bottom
LA-32B	10-Jul-03	0.5	mg/L	BOD Bottom
LA-32B	7-Aug-03	0.5	mg/L	BOD Bottom
LA-32B	4-Dec-03	0.5	mg/L	BOD Bottom
LA-32B	12-Jan-06	0.5	mg/l	BOD Bottom
LA-32B	16-Feb-06	0.5	mg/l	BOD Bottom
LA-32B	13-Apr-06	0.5	mg/l	BOD Bottom
LA-32B	12-Apr-07	0.50	mg/l	BOD Bottom
LA-32B	20-Mar-08	0.50	mg/l	BOD Bottom
LA-32B	15-Feb-01	0.6	mg/L	BOD Bottom
LA-32B	14-Apr-04	0.6	mg/L	BOD Bottom
LA-32B	27-Apr-05	0.6	mg/l	BOD Bottom
LA-32B	7-Jul-05	0.6	mg/l	BOD Bottom
LA-32B	8-Dec-05	0.6	mg/l	BOD Bottom
LA-32B	15-Nov-06	0.6	mg/l	BOD Bottom
LA-32B	15-Nov-07	0.60	mg/l	BOD Bottom
LA-32B	19-Dec-07	0.60	mg/l	BOD Bottom
LA-32B	17-Apr-08	0.60	mg/l	BOD Bottom
LA-32B	7-Feb-07	0.70	mg/l	BOD Bottom
LA-32B	16-May-02	0.7	mg/L	BOD Bottom
LA-32B	4-Oct-02	0.7	mg/L	BOD Bottom
LA-32B	10-Feb-05	0.7	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	10-Mar-05	0.7	mg/l	BOD Bottom
LA-32B	9-Jun-05	0.7	mg/l	BOD Bottom
LA-32B	15-Sep-00	0.8	mg/L	BOD Bottom
LA-32B	5-Dec-00	0.8	mg/L	BOD Bottom
LA-32B	20-Jun-02	0.8	mg/L	BOD Bottom
LA-32B	9-Oct-03	0.8	mg/L	BOD Bottom
LA-32B	21-Jan-04	0.8	mg/L	BOD Bottom
LA-32B	12-May-04	0.8	mg/L	BOD Bottom
LA-32B	17-Aug-06	0.8	mg/l	BOD Bottom
LA-32B	18-Jul-07	0.90	mg/l	BOD Bottom
LA-32B	14-Feb-08	0.90	mg/l	BOD Bottom
LA-32B	16-Nov-05	0.9	mg/l	BOD Bottom
LA-32B	6-Jul-01	1	mg/L	BOD Bottom
LA-32B	18-Jul-01	1	mg/L	BOD Bottom
LA-32B	9-Dec-02	1	mg/L	BOD Bottom
LA-32B	15-Sep-05	1	mg/l	BOD Bottom
LA-32B	16-May-07	1.00	mg/l	BOD Bottom
LA-32B	13-Apr-00	1.1	mg/L	BOD Bottom
LA-32B	10-Mar-02	1.1	mg/L	BOD Bottom
LA-32B	15-Jun-06	1.1	mg/l	BOD Bottom
LA-32B	17-Mar-04	1.2	mg/L	BOD Bottom
LA-32B	21-Jul-04	1.2	mg/l	BOD Bottom
LA-32B	9-Aug-07	1.20	mg/l	BOD Bottom
LA-32B	10-Jan-00	1.3	mg/L	BOD Bottom
LA-32B	5-Nov-01	1.3	mg/L	BOD Bottom
LA-32B	19-Nov-03	1.3	mg/L	BOD Bottom
LA-32B	18-Aug-04	1.3	mg/l	BOD Bottom
LA-32B	10-Dec-01	1.4	mg/L	BOD Bottom
LA-32B	11-May-06	1.4	mg/l	BOD Bottom
LA-32B	20-Jul-06	1.4	mg/l	BOD Bottom
LA-32B	13-Jul-00	1.5	mg/L	BOD Bottom
LA-32B	13-Nov-02	1.5	mg/L	BOD Bottom
LA-32B	16-Jun-04	1.5	mg/L	BOD Bottom
LA-32B	19-Apr-01	1.8	mg/L	BOD Bottom
LA-32B	19-Feb-03	2	mg/L	BOD Bottom
LA-32B	11-Aug-05	2	mg/l	BOD Bottom
LA-32B	16-Jun-00	2.1	mg/L	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	12-Jun-08	2.90	mg/l	BOD Bottom	1.2	2.9	1.61875	16	2007-2008
LA-33	20-Mar-08	-0.10	mg/l	BOD Bottom					
LA-33	24-Oct-07	0.00	mg/l	BOD Bottom					
LA-33	13-Dec-01	0.1	mg/L	BOD Bottom					
LA-33	18-Feb-04	0.1	mg/L	BOD Bottom					
LA-33	13-Oct-04	0.1	mg/l	BOD Bottom					
LA-33	7-Jul-05	0.1	mg/l	BOD Bottom					
LA-33	16-Nov-05	0.1	mg/l	BOD Bottom					
LA-33	15-Mar-07	0.10	mg/l	BOD Bottom					
LA-33	14-Feb-08	0.10	mg/l	BOD Bottom					
LA-33	13-Sep-01	0.2	mg/L	BOD Bottom					
LA-33	12-Jan-06	0.2	mg/l	BOD Bottom					
LA-33	15-Nov-06	0.2	mg/l	BOD Bottom					
LA-33	18-Jul-07	0.20	mg/l	BOD Bottom					
LA-33	10-Jan-00	0.3	mg/L	BOD Bottom					
LA-33	19-Apr-01	0.3	mg/L	BOD Bottom					
LA-33	4-Oct-02	0.3	mg/L	BOD Bottom					
LA-33	4-Sep-03	0.3	mg/L	BOD Bottom					
LA-33	9-Oct-03	0.3	mg/L	BOD Bottom					
LA-33	10-Feb-05	0.3	mg/l	BOD Bottom					
LA-33	10-Dec-01	0.4	mg/L	BOD Bottom					
LA-33	21-Feb-02	0.4	mg/L	BOD Bottom					
LA-33	10-Sep-03	0.4	mg/L	BOD Bottom					
LA-33	21-Jan-04	0.4	mg/L	BOD Bottom					
LA-33	14-Apr-04	0.4	mg/L	BOD Bottom					
LA-33	10-Nov-04	0.4	mg/l	BOD Bottom					
LA-33	25-Jan-07	0.4	mg/l	BOD Bottom					
LA-33	25-Jan-07	0.40	mg/l	BOD Bottom					
LA-33	25-Feb-00	0.5	mg/L	BOD Bottom					
LA-33	30-Aug-00	0.5	mg/L	BOD Bottom					
LA-33	3-Oct-00	0.5	mg/L	BOD Bottom					
LA-33	11-Jan-01	0.5	mg/L	BOD Bottom					
LA-33	23-Aug-01	0.5	mg/L	BOD Bottom					
LA-33	21-Sep-06	0.5	mg/l	BOD Bottom					
LA-33	7-Feb-07	0.50	mg/l	BOD Bottom					
LA-33	17-Jan-08	0.50	mg/l	BOD Bottom					
LA-33	13-Apr-00	0.6	mg/L	BOD Bottom					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	27-Mar-01	0.6	mg/L	BOD Bottom
LA-33	14-Mar-02	0.6	mg/L	BOD Bottom
LA-33	31-Jul-02	0.6	mg/L	BOD Bottom
LA-33	15-Sep-04	0.6	mg/l	BOD Bottom
LA-33	10-Mar-05	0.6	mg/l	BOD Bottom
LA-33	15-Sep-05	0.6	mg/l	BOD Bottom
LA-33	8-Dec-05	0.6	mg/l	BOD Bottom
LA-33	12-Apr-07	0.60	mg/l	BOD Bottom
LA-33	15-May-08	0.60	mg/l	BOD Bottom
LA-33	15-Nov-07	0.70	mg/l	BOD Bottom
LA-33	19-Dec-07	0.70	mg/l	BOD Bottom
LA-33	5-Nov-01	0.7	mg/L	BOD Bottom
LA-33	14-May-03	0.7	mg/L	BOD Bottom
LA-33	12-May-05	0.7	mg/l	BOD Bottom
LA-33	15-Jun-06	0.7	mg/l	BOD Bottom
LA-33	13-Jul-00	0.8	mg/L	BOD Bottom
LA-33	25-Jan-01	0.8	mg/L	BOD Bottom
LA-33	15-Feb-01	0.8	mg/L	BOD Bottom
LA-33	18-Jul-01	0.8	mg/L	BOD Bottom
LA-33	20-Jun-02	0.8	mg/L	BOD Bottom
LA-33	9-Dec-02	0.8	mg/L	BOD Bottom
LA-33	13-Mar-03	0.8	mg/L	BOD Bottom
LA-33	4-Dec-03	0.8	mg/L	BOD Bottom
LA-33	17-Aug-06	0.8	mg/l	BOD Bottom
LA-33	17-Apr-08	0.80	mg/l	BOD Bottom
LA-33	16-May-02	0.9	mg/L	BOD Bottom
LA-33	19-Jun-03	0.9	mg/L	BOD Bottom
LA-33	9-Jun-05	0.9	mg/l	BOD Bottom
LA-33	9-Aug-07	1.00	mg/l	BOD Bottom
LA-33	10-Mar-02	1.1	mg/L	BOD Bottom
LA-33	11-Aug-05	1.1	mg/l	BOD Bottom
LA-33	7-Aug-03	1.2	mg/L	BOD Bottom
LA-33	19-Nov-03	1.2	mg/L	BOD Bottom
LA-33	17-Mar-04	1.2	mg/L	BOD Bottom
LA-33	12-May-04	1.2	mg/L	BOD Bottom
LA-33	27-Apr-05	1.3	mg/l	BOD Bottom
LA-33	13-Oct-05	1.3	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	11-May-06	1.3	mg/l	BOD Bottom
LA-33	16-May-07	1.40	mg/l	BOD Bottom
LA-33	6-Jul-01	1.4	mg/L	BOD Bottom
LA-33	16-Jun-04	1.4	mg/L	BOD Bottom
LA-33	20-Jan-05	1.4	mg/l	BOD Bottom
LA-33	20-Jul-06	1.4	mg/l	BOD Bottom
LA-33	5-Dec-00	1.5	mg/L	BOD Bottom
LA-33	29-Aug-02	1.5	mg/L	BOD Bottom
LA-33	10-Jul-03	1.6	mg/L	BOD Bottom
LA-33	13-Apr-06	1.6	mg/l	BOD Bottom
LA-33	19-Dec-02	1.7	mg/L	BOD Bottom
LA-33	29-Nov-00	1.9	mg/L	BOD Bottom
LA-33	16-Jan-03	1.9	mg/L	BOD Bottom
LA-33	19-Feb-03	1.9	mg/L	BOD Bottom
LA-33	18-Aug-04	1.9	mg/l	BOD Bottom
LA-33	16-Feb-06	2	mg/l	BOD Bottom
LA-33	16-Jun-00	2.1	mg/L	BOD Bottom
LA-33	13-Nov-02	2.1	mg/L	BOD Bottom
LA-33	21-Jul-04	2.2	mg/l	BOD Bottom
LA-33	22-Dec-04	2.2	mg/l	BOD Bottom
LA-33	12-Jun-08	2.20	mg/l	BOD Bottom
LA-33	15-Sep-00	2.3	mg/L	BOD Bottom
LA-33	1-May-00	3.2	mg/L	BOD Bottom
LA-35	25-Feb-00	0.1	mg/L	BOD Bottom
LA-35	21-Dec-00	0.1	mg/L	BOD Bottom
LA-35	23-Aug-01	0.1	mg/L	BOD Bottom
LA-35	14-May-03	0.1	mg/L	BOD Bottom
LA-35	19-Nov-03	0.1	mg/L	BOD Bottom
LA-35	10-Mar-05	0.1	mg/l	BOD Bottom
LA-35	21-Feb-02	0.2	mg/L	BOD Bottom
LA-35	19-Jun-03	0.2	mg/L	BOD Bottom
LA-35	10-Sep-03	0.2	mg/L	BOD Bottom
LA-35	21-Jan-04	0.2	mg/L	BOD Bottom
LA-35	13-Oct-04	0.2	mg/l	BOD Bottom
LA-35	21-Sep-06	0.2	mg/l	BOD Bottom
LA-35	3-Oct-00	0.3	mg/L	BOD Bottom
LA-35	19-Apr-01	0.3	mg/L	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	13-Dec-01	0.3	mg/L	BOD Bottom
LA-35	14-Mar-02	0.3	mg/L	BOD Bottom
LA-35	19-Feb-03	0.3	mg/L	BOD Bottom
LA-35	13-Mar-03	0.3	mg/L	BOD Bottom
LA-35	7-Aug-03	0.3	mg/L	BOD Bottom
LA-35	10-Nov-04	0.3	mg/l	BOD Bottom
LA-35	22-Dec-04	0.3	mg/l	BOD Bottom
LA-35	12-Jan-06	0.3	mg/l	BOD Bottom
LA-35	15-Nov-06	0.3	mg/l	BOD Bottom
LA-35	25-Jan-07	0.3	mg/l	BOD Bottom
LA-35	25-Jan-07	0.30	mg/l	BOD Bottom
LA-35	18-Jul-01	0.4	mg/L	BOD Bottom
LA-35	13-Sep-01	0.4	mg/L	BOD Bottom
LA-35	16-May-02	0.4	mg/L	BOD Bottom
LA-35	4-Oct-02	0.4	mg/L	BOD Bottom
LA-35	4-Sep-03	0.4	mg/L	BOD Bottom
LA-35	4-Dec-03	0.4	mg/L	BOD Bottom
LA-35	12-May-04	0.4	mg/L	BOD Bottom
LA-35	7-Jul-05	0.4	mg/l	BOD Bottom
LA-35	7-Feb-07	0.40	mg/l	BOD Bottom
LA-35	15-Mar-07	0.40	mg/l	BOD Bottom
LA-35	17-Jan-08	0.40	mg/l	BOD Bottom
LA-35	14-Feb-08	0.40	mg/l	BOD Bottom
LA-35	15-May-08	0.40	mg/l	BOD Bottom
LA-35	9-Oct-03	0.5	mg/L	BOD Bottom
LA-35	17-Mar-04	0.5	mg/L	BOD Bottom
LA-35	10-Feb-05	0.5	mg/l	BOD Bottom
LA-35	12-Apr-07	0.50	mg/l	BOD Bottom
LA-35	20-Mar-08	0.50	mg/l	BOD Bottom
LA-35	30-Aug-00	0.6	mg/L	BOD Bottom
LA-35	31-Jul-02	0.6	mg/L	BOD Bottom
LA-35	15-Sep-04	0.6	mg/l	BOD Bottom
LA-35	12-May-05	0.6	mg/l	BOD Bottom
LA-35	15-Sep-05	0.6	mg/l	BOD Bottom
LA-35	16-Feb-06	0.6	mg/l	BOD Bottom
LA-35	24-Oct-07	0.60	mg/l	BOD Bottom
LA-35	15-Nov-07	0.70	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	27-Mar-01	0.7	mg/L	BOD Bottom
LA-35	18-Feb-04	0.7	mg/L	BOD Bottom
LA-35	8-Dec-05	0.7	mg/l	BOD Bottom
LA-35	13-Apr-06	0.7	mg/l	BOD Bottom
LA-35	15-Jun-06	0.7	mg/l	BOD Bottom
LA-35	17-Aug-06	0.7	mg/l	BOD Bottom
LA-35	15-Feb-01	0.8	mg/L	BOD Bottom
LA-35	29-Aug-02	0.8	mg/L	BOD Bottom
LA-35	18-Jul-07	0.90	mg/l	BOD Bottom
LA-35	17-Apr-08	0.90	mg/l	BOD Bottom
LA-35	29-Nov-00	0.9	mg/L	BOD Bottom
LA-35	5-Nov-01	0.9	mg/L	BOD Bottom
LA-35	16-Nov-05	0.9	mg/l	BOD Bottom
LA-35	13-Apr-00	1	mg/L	BOD Bottom
LA-35	19-Dec-02	1	mg/L	BOD Bottom
LA-35	14-Apr-04	1	mg/L	BOD Bottom
LA-35	21-Jul-04	1	mg/l	BOD Bottom
LA-35	5-Dec-00	1.1	mg/L	BOD Bottom
LA-35	10-Dec-01	1.1	mg/L	BOD Bottom
LA-35	9-Dec-02	1.1	mg/L	BOD Bottom
LA-35	16-Jan-03	1.1	mg/L	BOD Bottom
LA-35	16-Jun-04	1.1	mg/L	BOD Bottom
LA-35	18-Aug-04	1.1	mg/l	BOD Bottom
LA-35	13-Oct-05	1.1	mg/l	BOD Bottom
LA-35	9-Aug-07	1.10	mg/l	BOD Bottom
LA-35	10-Jan-00	1.2	mg/L	BOD Bottom
LA-35	20-Jun-02	1.2	mg/L	BOD Bottom
LA-35	9-Jun-05	1.2	mg/l	BOD Bottom
LA-35	11-May-06	1.2	mg/l	BOD Bottom
LA-35	19-Dec-07	1.20	mg/l	BOD Bottom
LA-35	1-May-00	1.3	mg/L	BOD Bottom
LA-35	25-Jan-01	1.4	mg/L	BOD Bottom
LA-35	20-Jan-05	1.4	mg/l	BOD Bottom
LA-35	11-Aug-05	1.4	mg/l	BOD Bottom
LA-35	20-Jul-06	1.4	mg/l	BOD Bottom
LA-35	10-Mar-02	1.5	mg/L	BOD Bottom
LA-35	16-May-07	1.50	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	10-Jul-03	1.9	mg/L	BOD Bottom
LA-35	12-Jun-08	2.00	mg/l	BOD Bottom
LA-35	11-Jan-01	4	mg/L	BOD Bottom
LA-39	10-Mar-05	0	mg/l	BOD Bottom
LA-39	16-Feb-06	0	mg/l	BOD Bottom
LA-39	19-Jun-03	0.1	mg/L	BOD Bottom
LA-39	3-Oct-00	0.2	mg/L	BOD Bottom
LA-39	21-Dec-00	0.2	mg/L	BOD Bottom
LA-39	18-Feb-04	0.2	mg/L	BOD Bottom
LA-39	13-Apr-06	0.2	mg/l	BOD Bottom
LA-39	25-Jan-01	0.3	mg/L	BOD Bottom
LA-39	13-Dec-01	0.3	mg/L	BOD Bottom
LA-39	4-Sep-03	0.3	mg/L	BOD Bottom
LA-39	14-Feb-08	0.30	mg/l	BOD Bottom
LA-39	25-Jan-07	0.4	mg/l	BOD Bottom
LA-39	25-Jan-07	0.40	mg/l	BOD Bottom
LA-39	4-Dec-03	0.5	mg/L	BOD Bottom
LA-39	7-Jul-05	0.5	mg/l	BOD Bottom
LA-39	12-Jan-06	0.5	mg/l	BOD Bottom
LA-39	21-Sep-06	0.5	mg/l	BOD Bottom
LA-39	19-Dec-07	0.50	mg/l	BOD Bottom
LA-39	25-Feb-00	0.6	mg/L	BOD Bottom
LA-39	17-Jan-02	0.6	mg/L	BOD Bottom
LA-39	10-Sep-03	0.6	mg/L	BOD Bottom
LA-39	21-Jan-04	0.6	mg/L	BOD Bottom
LA-39	10-Nov-04	0.6	mg/l	BOD Bottom
LA-39	22-Dec-04	0.6	mg/l	BOD Bottom
LA-39	10-Feb-05	0.6	mg/l	BOD Bottom
LA-39	24-Oct-07	0.60	mg/l	BOD Bottom
LA-39	17-Jan-08	0.60	mg/l	BOD Bottom
LA-39	7-Feb-07	0.70	mg/l	BOD Bottom
LA-39	20-Mar-08	0.70	mg/l	BOD Bottom
LA-39	15-May-08	0.70	mg/l	BOD Bottom
LA-39	4-Oct-02	0.7	mg/L	BOD Bottom
LA-39	9-Oct-03	0.7	mg/L	BOD Bottom
LA-39	12-May-05	0.7	mg/l	BOD Bottom
LA-39	10-Jan-00	0.8	mg/L	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	6-Jul-01	0.8	mg/L	BOD Bottom
LA-39	19-Feb-03	0.8	mg/L	BOD Bottom
LA-39	16-Jun-04	0.8	mg/L	BOD Bottom
LA-39	17-Aug-06	0.8	mg/l	BOD Bottom
LA-39	15-Nov-07	0.90	mg/l	BOD Bottom
LA-39	23-Aug-01	0.9	mg/L	BOD Bottom
LA-39	13-Sep-01	0.9	mg/L	BOD Bottom
LA-39	14-Mar-02	0.9	mg/L	BOD Bottom
LA-39	20-Jun-02	0.9	mg/L	BOD Bottom
LA-39	29-Aug-02	0.9	mg/L	BOD Bottom
LA-39	13-Mar-03	0.9	mg/L	BOD Bottom
LA-39	15-Sep-04	0.9	mg/l	BOD Bottom
LA-39	30-Aug-00	1	mg/L	BOD Bottom
LA-39	10-Dec-01	1	mg/L	BOD Bottom
LA-39	21-Feb-02	1	mg/L	BOD Bottom
LA-39	14-May-03	1	mg/L	BOD Bottom
LA-39	7-Aug-03	1	mg/L	BOD Bottom
LA-39	19-Nov-03	1	mg/L	BOD Bottom
LA-39	15-Nov-06	1	mg/l	BOD Bottom
LA-39	15-Feb-01	1.1	mg/L	BOD Bottom
LA-39	19-Apr-01	1.1	mg/L	BOD Bottom
LA-39	5-Nov-01	1.1	mg/L	BOD Bottom
LA-39	16-Nov-05	1.1	mg/l	BOD Bottom
LA-39	27-Mar-01	1.2	mg/L	BOD Bottom
LA-39	16-May-02	1.2	mg/L	BOD Bottom
LA-39	31-Jul-02	1.2	mg/L	BOD Bottom
LA-39	16-Jan-03	1.2	mg/L	BOD Bottom
LA-39	14-Apr-04	1.2	mg/L	BOD Bottom
LA-39	18-Jul-07	1.30	mg/l	BOD Bottom
LA-39	9-Aug-07	1.30	mg/l	BOD Bottom
LA-39	1-May-00	1.3	mg/L	BOD Bottom
LA-39	9-Jun-05	1.3	mg/l	BOD Bottom
LA-39	15-Sep-05	1.3	mg/l	BOD Bottom
LA-39	9-Dec-02	1.4	mg/L	BOD Bottom
LA-39	11-May-06	1.5	mg/l	BOD Bottom
LA-39	18-Jul-01	1.6	mg/L	BOD Bottom
LA-39	20-Jan-05	1.6	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	19-Dec-02	1.7	mg/L	BOD Bottom
LA-39	10-Jul-03	1.7	mg/L	BOD Bottom
LA-39	20-Jul-06	1.7	mg/l	BOD Bottom
LA-39	12-Apr-07	1.80	mg/l	BOD Bottom
LA-39	13-Jul-00	1.8	mg/L	BOD Bottom
LA-39	21-Jul-04	2	mg/l	BOD Bottom
LA-39	16-May-07	2.10	mg/l	BOD Bottom
LA-39	17-Apr-08	2.10	mg/l	BOD Bottom
LA-39	17-Mar-04	2.1	mg/L	BOD Bottom
LA-39	18-Aug-04	2.2	mg/l	BOD Bottom
LA-39	12-May-04	2.3	mg/L	BOD Bottom
LA-39	11-Aug-05	2.3	mg/l	BOD Bottom
LA-39	15-Sep-00	2.5	mg/L	BOD Bottom
LA-39	13-Nov-02	2.5	mg/L	BOD Bottom
LA-39	27-Apr-05	2.5	mg/l	BOD Bottom
LA-39	8-Dec-05	2.5	mg/l	BOD Bottom
LA-39	13-Oct-05	2.6	mg/l	BOD Bottom
LA-39	15-Jun-06	2.6	mg/l	BOD Bottom
LA-39	5-Dec-00	2.7	mg/L	BOD Bottom
LA-39	12-Jun-08	2.80	mg/l	BOD Bottom
LA-39	13-Apr-00	2.8	mg/L	BOD Bottom
LA-39	16-Jun-00	2.8	mg/L	BOD Bottom
LA-39	29-Nov-00	3.3	mg/L	BOD Bottom
LA-39	10-Mar-02	3.7	mg/L	BOD Bottom
LA-39	15-Mar-07	5.00	mg/l	BOD Bottom
LA-39	11-Jan-01	5.4	mg/L	BOD Bottom
LA-41	25-Jan-07	0.00	mg/l	BOD Bottom
LA-41	25-Jan-07	0	mg/l	BOD Bottom
LA-41	7-Feb-07	0.00	mg/l	BOD Bottom
LA-41	15-Mar-07	0.00	mg/l	BOD Bottom
LA-41	16-May-07	0.00	mg/l	BOD Bottom
LA-41	14-Feb-08	0.00	mg/l	BOD Bottom
LA-41	11-Jan-01	0.1	mg/L	BOD Bottom
LA-41	4-Oct-02	0.1	mg/L	BOD Bottom
LA-41	16-Feb-06	0.1	mg/l	BOD Bottom
LA-41	10-Jan-00	0.2	mg/L	BOD Bottom
LA-41	25-Feb-00	0.2	mg/L	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	30-Aug-00	0.2	mg/L	BOD Bottom
LA-41	3-Oct-00	0.2	mg/L	BOD Bottom
LA-41	15-Feb-01	0.2	mg/L	BOD Bottom
LA-41	27-Mar-01	0.2	mg/L	BOD Bottom
LA-41	10-Dec-01	0.2	mg/L	BOD Bottom
LA-41	17-Jan-02	0.2	mg/L	BOD Bottom
LA-41	13-Mar-03	0.2	mg/L	BOD Bottom
LA-41	4-Dec-03	0.2	mg/L	BOD Bottom
LA-41	20-Jan-05	0.2	mg/l	BOD Bottom
LA-41	21-Sep-06	0.2	mg/l	BOD Bottom
LA-41	25-Jan-01	0.3	mg/L	BOD Bottom
LA-41	6-Jul-01	0.3	mg/L	BOD Bottom
LA-41	13-Sep-01	0.3	mg/L	BOD Bottom
LA-41	29-Aug-02	0.3	mg/L	BOD Bottom
LA-41	9-Dec-02	0.3	mg/L	BOD Bottom
LA-41	19-Dec-02	0.3	mg/L	BOD Bottom
LA-41	7-Aug-03	0.3	mg/L	BOD Bottom
LA-41	4-Sep-03	0.3	mg/L	BOD Bottom
LA-41	9-Oct-03	0.3	mg/L	BOD Bottom
LA-41	19-Nov-03	0.3	mg/L	BOD Bottom
LA-41	21-Jan-04	0.3	mg/L	BOD Bottom
LA-41	10-Nov-04	0.3	mg/l	BOD Bottom
LA-41	12-Jan-06	0.3	mg/l	BOD Bottom
LA-41	24-Oct-07	0.30	mg/l	BOD Bottom
LA-41	1-May-00	0.4	mg/L	BOD Bottom
LA-41	5-Dec-00	0.4	mg/L	BOD Bottom
LA-41	21-Feb-02	0.4	mg/L	BOD Bottom
LA-41	22-Dec-04	0.4	mg/l	BOD Bottom
LA-41	10-Feb-05	0.4	mg/l	BOD Bottom
LA-41	10-Mar-05	0.4	mg/l	BOD Bottom
LA-41	16-Nov-05	0.4	mg/l	BOD Bottom
LA-41	15-Nov-06	0.4	mg/l	BOD Bottom
LA-41	18-Jul-01	0.5	mg/L	BOD Bottom
LA-41	13-Dec-01	0.5	mg/L	BOD Bottom
LA-41	15-Sep-04	0.5	mg/l	BOD Bottom
LA-41	13-Jul-00	0.6	mg/L	BOD Bottom
LA-41	23-Aug-01	0.6	mg/L	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	10-Jul-03	0.6	mg/L	BOD Bottom
LA-41	17-Mar-04	0.6	mg/L	BOD Bottom
LA-41	13-Apr-06	0.6	mg/l	BOD Bottom
LA-41	12-Apr-07	0.60	mg/l	BOD Bottom
LA-41	9-Aug-07	0.60	mg/l	BOD Bottom
LA-41	29-Nov-00	0.7	mg/L	BOD Bottom
LA-41	16-May-02	0.7	mg/L	BOD Bottom
LA-41	13-Nov-02	0.7	mg/L	BOD Bottom
LA-41	14-May-03	0.7	mg/L	BOD Bottom
LA-41	8-Dec-05	0.7	mg/l	BOD Bottom
LA-41	17-Aug-06	0.7	mg/l	BOD Bottom
LA-41	31-Jul-02	0.8	mg/L	BOD Bottom
LA-41	18-Aug-04	0.8	mg/l	BOD Bottom
LA-41	17-Apr-08	0.90	mg/l	BOD Bottom
LA-41	14-Mar-02	0.9	mg/L	BOD Bottom
LA-41	13-Apr-00	1	mg/L	BOD Bottom
LA-41	14-Apr-04	1	mg/L	BOD Bottom
LA-41	15-May-08	1.00	mg/l	BOD Bottom
LA-41	12-Jun-08	1.00	mg/l	BOD Bottom
LA-41	16-Jun-04	1.1	mg/L	BOD Bottom
LA-41	20-Jul-06	1.1	mg/l	BOD Bottom
LA-41	18-Jul-07	1.10	mg/l	BOD Bottom
LA-41	19-Dec-07	1.10	mg/l	BOD Bottom
LA-41	15-Jun-06	1.2	mg/l	BOD Bottom
LA-41	5-Nov-01	1.3	mg/L	BOD Bottom
LA-41	20-Jun-02	1.4	mg/L	BOD Bottom
LA-41	12-May-04	1.4	mg/L	BOD Bottom
LA-41	15-Sep-00	1.5	mg/L	BOD Bottom
LA-41	15-Sep-00	1.5	mg/L	BOD Bottom
LA-41	15-Sep-05	1.5	mg/l	BOD Bottom
LA-41	10-Sep-03	1.9	mg/L	BOD Bottom
LA-41	11-May-06	1.9	mg/l	BOD Bottom
LA-41	16-Jan-03	2	mg/L	BOD Bottom
LA-41	21-Jul-04	2.1	mg/l	BOD Bottom
LA-41	12-May-05	2.2	mg/l	BOD Bottom
LA-41	11-Aug-05	2.4	mg/l	BOD Bottom
LA-41	13-Oct-05	2.4	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	9-Jun-05	2.5	mg/l	BOD Bottom
LA-41	16-Jun-00	3.6	mg/L	BOD Bottom
LA-41	7-Jul-05	3.8	mg/l	BOD Bottom
LA-41	10-Mar-02	5	mg/L	BOD Bottom
LA-41	15-Nov-07		mg/l	BOD Bottom
LA-41	17-Jan-08		mg/l	BOD Bottom
LA-41	20-Mar-08		mg/l	BOD Bottom
LA-44	10-Mar-05	0	mg/l	BOD Bottom
LA-44	27-Apr-05	0	mg/l	BOD Bottom
LA-44	7-Feb-07	0.00	mg/l	BOD Bottom
LA-44	16-May-07	0.00	mg/l	BOD Bottom
LA-44	25-Feb-00	0.1	mg/L	BOD Bottom
LA-44	3-Oct-00	0.1	mg/L	BOD Bottom
LA-44	25-Jan-01	0.1	mg/L	BOD Bottom
LA-44	13-Dec-01	0.1	mg/L	BOD Bottom
LA-44	16-May-02	0.1	mg/L	BOD Bottom
LA-44	31-Jul-02	0.1	mg/L	BOD Bottom
LA-44	4-Oct-02	0.1	mg/L	BOD Bottom
LA-44	13-Mar-03	0.1	mg/L	BOD Bottom
LA-44	4-Dec-03	0.1	mg/L	BOD Bottom
LA-44	22-Dec-04	0.1	mg/l	BOD Bottom
LA-44	9-Aug-07	0.10	mg/l	BOD Bottom
LA-44	21-Feb-02	0.2	mg/L	BOD Bottom
LA-44	4-Sep-03	0.2	mg/L	BOD Bottom
LA-44	10-Sep-03	0.2	mg/L	BOD Bottom
LA-44	25-Feb-04	0.2	mg/L	BOD Bottom
LA-44	20-Jan-05	0.2	mg/l	BOD Bottom
LA-44	12-Jan-06	0.2	mg/l	BOD Bottom
LA-44	25-Jan-07	0.2	mg/l	BOD Bottom
LA-44	25-Jan-07	0.20	mg/l	BOD Bottom
LA-44	1-May-00	0.3	mg/L	BOD Bottom
LA-44	21-Dec-00	0.3	mg/L	BOD Bottom
LA-44	15-Feb-01	0.3	mg/L	BOD Bottom
LA-44	23-Aug-01	0.3	mg/L	BOD Bottom
LA-44	17-Jan-02	0.3	mg/L	BOD Bottom
LA-44	19-Feb-03	0.3	mg/L	BOD Bottom
LA-44	14-May-03	0.3	mg/L	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	13-Apr-06	0.3	mg/l	BOD Bottom
LA-44	30-Aug-00	0.4	mg/L	BOD Bottom
LA-44	29-Aug-02	0.4	mg/L	BOD Bottom
LA-44	9-Dec-02	0.4	mg/L	BOD Bottom
LA-44	7-Aug-03	0.4	mg/L	BOD Bottom
LA-44	10-Nov-04	0.4	mg/l	BOD Bottom
LA-44	16-Nov-05	0.4	mg/l	BOD Bottom
LA-44	15-Mar-07	0.40	mg/l	BOD Bottom
LA-44	15-Nov-07	0.40	mg/l	BOD Bottom
LA-44	17-Jan-08	0.40	mg/l	BOD Bottom
LA-44	14-Feb-08	0.40	mg/l	BOD Bottom
LA-44	13-Sep-01	0.5	mg/L	BOD Bottom
LA-44	10-Dec-01	0.5	mg/L	BOD Bottom
LA-44	14-Mar-02	0.5	mg/L	BOD Bottom
LA-44	19-Jun-03	0.5	mg/L	BOD Bottom
LA-44	19-Nov-03	0.5	mg/L	BOD Bottom
LA-44	16-Jun-04	0.5	mg/L	BOD Bottom
LA-44	10-Feb-05	0.5	mg/l	BOD Bottom
LA-44	12-Apr-07	0.50	mg/l	BOD Bottom
LA-44	20-Mar-08	0.50	mg/l	BOD Bottom
LA-44	5-Dec-00	0.6	mg/L	BOD Bottom
LA-44	15-Sep-04	0.6	mg/l	BOD Bottom
LA-44	12-May-05	0.6	mg/l	BOD Bottom
LA-44	8-Dec-05	0.6	mg/l	BOD Bottom
LA-44	21-Sep-06	0.6	mg/l	BOD Bottom
LA-44	15-Nov-06	0.6	mg/l	BOD Bottom
LA-44	24-Oct-07	0.60	mg/l	BOD Bottom
LA-44	10-Jan-00	0.7	mg/L	BOD Bottom
LA-44	18-Jul-01	0.7	mg/L	BOD Bottom
LA-44	9-Oct-03	0.7	mg/L	BOD Bottom
LA-44	21-Jan-04	0.7	mg/L	BOD Bottom
LA-44	17-Mar-04	0.7	mg/L	BOD Bottom
LA-44	27-Mar-01	0.8	mg/L	BOD Bottom
LA-44	19-Apr-01	0.8	mg/L	BOD Bottom
LA-44	18-Jul-07	0.80	mg/l	BOD Bottom
LA-44	17-Apr-08	0.80	mg/l	BOD Bottom
LA-44	19-Dec-07	0.90	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	20-Jun-02	0.9	mg/L	BOD Bottom
LA-44	17-Aug-06	1	mg/l	BOD Bottom
LA-44	10-Mar-02	1.1	mg/L	BOD Bottom
LA-44	14-Apr-04	1.1	mg/L	BOD Bottom
LA-44	12-May-04	1.1	mg/L	BOD Bottom
LA-44	16-Feb-06	1.1	mg/l	BOD Bottom
LA-44	15-Jun-06	1.1	mg/l	BOD Bottom
LA-44	12-Jun-08	1.10	mg/l	BOD Bottom
LA-44	13-Nov-02	1.2	mg/L	BOD Bottom
LA-44	15-May-08	1.20	mg/l	BOD Bottom
LA-44	6-Jul-01	1.3	mg/L	BOD Bottom
LA-44	5-Nov-01	1.3	mg/L	BOD Bottom
LA-44	18-Aug-04	1.3	mg/l	BOD Bottom
LA-44	11-Aug-05	1.3	mg/l	BOD Bottom
LA-44	16-Jan-03	1.4	mg/L	BOD Bottom
LA-44	21-Jul-04	1.4	mg/l	BOD Bottom
LA-44	13-Jul-00	1.5	mg/L	BOD Bottom
LA-44	7-Jul-05	1.5	mg/l	BOD Bottom
LA-44	9-Jun-05	1.7	mg/l	BOD Bottom
LA-44	13-Oct-05	1.7	mg/l	BOD Bottom
LA-44	15-Sep-05	1.8	mg/l	BOD Bottom
LA-44	11-May-06	1.8	mg/l	BOD Bottom
LA-44	10-Jul-03	2.2	mg/L	BOD Bottom
LA-44	16-Jun-00	2.3	mg/L	BOD Bottom
LA-46	17-Jan-08	-0.10	mg/l	BOD Bottom
LA-46	22-Dec-04	0	mg/l	BOD Bottom
LA-46	15-Mar-07	0.00	mg/l	BOD Bottom
LA-46	11-Jan-01	0.1	mg/L	BOD Bottom
LA-46	6-Jul-01	0.1	mg/L	BOD Bottom
LA-46	23-Aug-01	0.1	mg/L	BOD Bottom
LA-46	16-May-02	0.1	mg/L	BOD Bottom
LA-46	4-Oct-02	0.1	mg/L	BOD Bottom
LA-46	9-Oct-03	0.1	mg/L	BOD Bottom
LA-46	10-Feb-05	0.1	mg/l	BOD Bottom
LA-46	10-Mar-05	0.1	mg/l	BOD Bottom
LA-46	27-Apr-05	0.1	mg/l	BOD Bottom
LA-46	15-Nov-07	0.10	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	3-Oct-00	0.2	mg/L	BOD Bottom
LA-46	13-Sep-01	0.2	mg/L	BOD Bottom
LA-46	10-Dec-01	0.2	mg/L	BOD Bottom
LA-46	9-Dec-02	0.2	mg/L	BOD Bottom
LA-46	10-Nov-04	0.2	mg/l	BOD Bottom
LA-46	7-Feb-07	0.20	mg/l	BOD Bottom
LA-46	25-Feb-00	0.3	mg/L	BOD Bottom
LA-46	1-May-00	0.3	mg/L	BOD Bottom
LA-46	29-Nov-00	0.3	mg/L	BOD Bottom
LA-46	25-Jan-01	0.3	mg/L	BOD Bottom
LA-46	21-Feb-02	0.3	mg/L	BOD Bottom
LA-46	13-Mar-03	0.3	mg/L	BOD Bottom
LA-46	10-Sep-03	0.3	mg/L	BOD Bottom
LA-46	25-Feb-04	0.3	mg/L	BOD Bottom
LA-46	17-Mar-04	0.3	mg/L	BOD Bottom
LA-46	16-Feb-06	0.3	mg/l	BOD Bottom
LA-46	17-Aug-06	0.3	mg/l	BOD Bottom
LA-46	21-Sep-06	0.3	mg/l	BOD Bottom
LA-46	25-Jan-07	0.3	mg/l	BOD Bottom
LA-46	25-Jan-07	0.30	mg/l	BOD Bottom
LA-46	24-Oct-07	0.30	mg/l	BOD Bottom
LA-46	10-Jan-00	0.4	mg/L	BOD Bottom
LA-46	15-Feb-01	0.4	mg/L	BOD Bottom
LA-46	27-Mar-01	0.4	mg/L	BOD Bottom
LA-46	15-Sep-04	0.4	mg/l	BOD Bottom
LA-46	20-Jan-05	0.4	mg/l	BOD Bottom
LA-46	12-Jan-06	0.4	mg/l	BOD Bottom
LA-46	15-Nov-06	0.4	mg/l	BOD Bottom
LA-46	19-Dec-07	0.40	mg/l	BOD Bottom
LA-46	14-Feb-08	0.40	mg/l	BOD Bottom
LA-46	13-Apr-00	0.5	mg/L	BOD Bottom
LA-46	13-Dec-01	0.5	mg/L	BOD Bottom
LA-46	19-Nov-03	0.5	mg/L	BOD Bottom
LA-46	12-May-04	0.5	mg/L	BOD Bottom
LA-46	16-Nov-05	0.5	mg/l	BOD Bottom
LA-46	16-May-07	0.50	mg/l	BOD Bottom
LA-46	9-Aug-07	0.50	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	18-Jul-01	0.6	mg/L	BOD Bottom
LA-46	10-Mar-02	0.6	mg/L	BOD Bottom
LA-46	19-Jun-03	0.6	mg/L	BOD Bottom
LA-46	4-Dec-03	0.6	mg/L	BOD Bottom
LA-46	21-Jan-04	0.6	mg/L	BOD Bottom
LA-46	12-Apr-07	0.60	mg/l	BOD Bottom
LA-46	17-Apr-08	0.60	mg/l	BOD Bottom
LA-46	14-Mar-02	0.7	mg/L	BOD Bottom
LA-46	19-Feb-03	0.7	mg/L	BOD Bottom
LA-46	4-Sep-03	0.7	mg/L	BOD Bottom
LA-46	13-Apr-06	0.7	mg/l	BOD Bottom
LA-46	11-May-06	0.7	mg/l	BOD Bottom
LA-46	19-Dec-02	0.8	mg/L	BOD Bottom
LA-46	7-Aug-03	0.8	mg/L	BOD Bottom
LA-46	12-May-05	0.8	mg/l	BOD Bottom
LA-46	20-Mar-08	0.90	mg/l	BOD Bottom
LA-46	13-Nov-02	0.9	mg/L	BOD Bottom
LA-46	13-Jul-00	1	mg/L	BOD Bottom
LA-46	5-Dec-00	1	mg/L	BOD Bottom
LA-46	29-Aug-02	1	mg/L	BOD Bottom
LA-46	14-Apr-04	1	mg/L	BOD Bottom
LA-46	21-Jul-04	1	mg/l	BOD Bottom
LA-46	11-Aug-05	1	mg/l	BOD Bottom
LA-46	15-Jun-06	1	mg/l	BOD Bottom
LA-46	31-Jul-02	1.1	mg/L	BOD Bottom
LA-46	8-Dec-05	1.1	mg/l	BOD Bottom
LA-46	18-Jul-07	1.10	mg/l	BOD Bottom
LA-46	15-May-08	1.10	mg/l	BOD Bottom
LA-46	12-Jun-08	1.10	mg/l	BOD Bottom
LA-46	16-Jun-04	1.2	mg/L	BOD Bottom
LA-46	18-Aug-04	1.2	mg/l	BOD Bottom
LA-46	13-Oct-05	1.3	mg/l	BOD Bottom
LA-46	16-Jan-03	1.5	mg/L	BOD Bottom
LA-46	9-Jun-05	1.5	mg/l	BOD Bottom
LA-46	7-Jul-05	1.5	mg/l	BOD Bottom
LA-46	20-Jun-02	1.6	mg/L	BOD Bottom
LA-46	20-Jul-06	1.7	mg/l	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	15-Sep-05	1.8	mg/l	BOD Bottom
LA-46	16-Jun-00	2	mg/L	BOD Bottom
LA-46	10-Jul-03	2.1	mg/L	BOD Bottom
LA-47	7-Feb-07	0.00	mg/l	BOD Bottom
LA-47	10-Jan-00	0.1	mg/L	BOD Bottom
LA-47	21-Feb-02	0.1	mg/L	BOD Bottom
LA-47	14-Mar-02	0.1	mg/L	BOD Bottom
LA-47	25-Jan-07	0.1	mg/l	BOD Bottom
LA-47	25-Jan-07	0.10	mg/l	BOD Bottom
LA-47	1-May-00	0.2	mg/L	BOD Bottom
LA-47	15-Sep-00	0.2	mg/L	BOD Bottom
LA-47	11-Jan-01	0.2	mg/L	BOD Bottom
LA-47	17-Jan-02	0.2	mg/L	BOD Bottom
LA-47	14-May-03	0.2	mg/L	BOD Bottom
LA-47	19-Jun-03	0.2	mg/L	BOD Bottom
LA-47	4-Dec-03	0.2	mg/L	BOD Bottom
LA-47	24-Oct-07	0.20	mg/l	BOD Bottom
LA-47	13-Dec-01	0.3	mg/L	BOD Bottom
LA-47	4-Oct-02	0.3	mg/L	BOD Bottom
LA-47	25-Feb-04	0.3	mg/L	BOD Bottom
LA-47	19-Dec-07	0.30	mg/l	BOD Bottom
LA-47	17-Apr-08	0.30	mg/l	BOD Bottom
LA-47	13-Apr-00	0.4	mg/L	BOD Bottom
LA-47	25-Jan-01	0.4	mg/L	BOD Bottom
LA-47	13-Mar-03	0.4	mg/L	BOD Bottom
LA-47	13-Oct-04	0.4	mg/l	BOD Bottom
LA-47	8-Dec-05	0.4	mg/l	BOD Bottom
LA-47	12-Apr-07	0.40	mg/l	BOD Bottom
LA-47	15-Nov-07	0.40	mg/l	BOD Bottom
LA-47	29-Nov-00	0.5	mg/L	BOD Bottom
LA-47	10-Nov-04	0.5	mg/l	BOD Bottom
LA-47	20-Jan-05	0.5	mg/l	BOD Bottom
LA-47	10-Feb-05	0.5	mg/l	BOD Bottom
LA-47	16-Feb-06	0.5	mg/l	BOD Bottom
LA-47	15-Mar-07	0.50	mg/l	BOD Bottom
LA-47	17-Jan-08	0.50	mg/l	BOD Bottom
LA-47	30-Aug-00	0.6	mg/L	BOD Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	10-Dec-01	0.6	mg/L	BOD Bottom
LA-47	16-May-02	0.6	mg/L	BOD Bottom
LA-47	31-Jul-02	0.6	mg/L	BOD Bottom
LA-47	9-Dec-02	0.6	mg/L	BOD Bottom
LA-47	7-Aug-03	0.6	mg/L	BOD Bottom
LA-47	15-Sep-04	0.6	mg/l	BOD Bottom
LA-47	27-Apr-05	0.6	mg/l	BOD Bottom
LA-47	21-Sep-06	0.6	mg/l	BOD Bottom
LA-47	16-May-07	0.60	mg/l	BOD Bottom
LA-47	14-Feb-08	0.60	mg/l	BOD Bottom
LA-47	9-Aug-07	0.70	mg/l	BOD Bottom
LA-47	20-Mar-08	0.70	mg/l	BOD Bottom
LA-47	5-Dec-00	0.7	mg/L	BOD Bottom
LA-47	15-Feb-01	0.7	mg/L	BOD Bottom
LA-47	27-Mar-01	0.7	mg/L	BOD Bottom
LA-47	19-Feb-03	0.7	mg/L	BOD Bottom
LA-47	9-Oct-03	0.7	mg/L	BOD Bottom
LA-47	21-Jan-04	0.7	mg/L	BOD Bottom
LA-47	17-Mar-04	0.7	mg/L	BOD Bottom
LA-47	16-Nov-05	0.7	mg/l	BOD Bottom
LA-47	12-Jan-06	0.7	mg/l	BOD Bottom
LA-47	15-Jun-06	0.7	mg/l	BOD Bottom
LA-47	19-Apr-01	0.8	mg/L	BOD Bottom
LA-47	18-Jul-01	0.8	mg/L	BOD Bottom
LA-47	13-Apr-06	0.8	mg/l	BOD Bottom
LA-47	23-Aug-01	0.9	mg/L	BOD Bottom
LA-47	10-Mar-02	0.9	mg/L	BOD Bottom
LA-47	10-Mar-05	0.9	mg/l	BOD Bottom
LA-47	19-Nov-03	1	mg/L	BOD Bottom
LA-47	12-May-05	1	mg/l	BOD Bottom
LA-47	29-Aug-02	1.1	mg/L	BOD Bottom
LA-47	15-Nov-06	1.1	mg/l	BOD Bottom
LA-47	18-Jul-07	1.10	mg/l	BOD Bottom
LA-47	5-Nov-01	1.2	mg/L	BOD Bottom
LA-47	10-Sep-03	1.2	mg/L	BOD Bottom
LA-47	17-Aug-06	1.2	mg/l	BOD Bottom
LA-47	6-Jul-01	1.3	mg/L	BOD Bottom

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LA-47	12-Jun-08	1.40	mg/l	BOD Bottom
LA-47	16-Jun-04	1.4	mg/L	BOD Bottom
LA-47	13-Jul-00	1.5	mg/L	BOD Bottom
LA-47	20-Jun-02	1.5	mg/L	BOD Bottom
LA-47	18-Aug-04	1.5	mg/l	BOD Bottom
LA-47	15-May-08	1.50	mg/l	BOD Bottom
LA-47	10-Jul-03	1.6	mg/L	BOD Bottom
LA-47	20-Jul-06	1.6	mg/l	BOD Bottom
LA-47	12-May-04	1.7	mg/L	BOD Bottom
LA-47	13-Nov-02	2	mg/L	BOD Bottom
LA-47	21-Jul-04	2	mg/l	BOD Bottom
LA-47	7-Jul-05	2.1	mg/l	BOD Bottom
LA-47	15-Sep-05	2.1	mg/l	BOD Bottom
LA-47	14-Apr-04	2.2	mg/L	BOD Bottom
LA-47	13-Oct-05	2.6	mg/l	BOD Bottom
LA-47	9-Jun-05	3	mg/l	BOD Bottom
LA-47	11-Aug-05	3.1	mg/l	BOD Bottom
LA-47	11-May-06	3.2	mg/l	BOD Bottom
LA-47	16-Jun-00	3.6	mg/L	BOD Bottom
LA-47	16-Jan-03	4	mg/L	BOD Bottom
LA-30	10-Mar-05	0	mg/l	BOD Surface
LA-30	25-Jan-07	0.00	mg/l	BOD Surface
LA-30	25-Jan-07	0	mg/l	BOD Surface
LA-30	1-May-00	0.1	mg/L	BOD Surface
LA-30	9-Dec-02	0.1	mg/L	BOD Surface
LA-30	19-Jun-03	0.1	mg/L	BOD Surface
LA-30	7-Aug-03	0.1	mg/L	BOD Surface
LA-30	23-Aug-01	0.2	mg/L	BOD Surface
LA-30	10-Dec-01	0.2	mg/L	BOD Surface
LA-30	13-Dec-01	0.2	mg/L	BOD Surface
LA-30	10-Mar-02	0.2	mg/L	BOD Surface
LA-30	19-Dec-02	0.2	mg/L	BOD Surface
LA-30	21-Jan-04	0.2	mg/L	BOD Surface
LA-30	10-Nov-04	0.2	mg/l	BOD Surface
LA-30	20-Jan-05	0.2	mg/l	BOD Surface
LA-30	10-Feb-05	0.2	mg/l	BOD Surface
LA-30	15-Mar-07	0.20	mg/l	BOD Surface

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LA-30	10-Jan-00	0.3	mg/L	BOD Surface
LA-30	13-Sep-01	0.3	mg/L	BOD Surface
LA-30	14-Mar-02	0.3	mg/L	BOD Surface
LA-30	29-Aug-02	0.3	mg/L	BOD Surface
LA-30	11-Jan-01	0.4	mg/L	BOD Surface
LA-30	15-Feb-01	0.4	mg/L	BOD Surface
LA-30	9-Oct-03	0.4	mg/L	BOD Surface
LA-30	17-Mar-04	0.4	mg/L	BOD Surface
LA-30	22-Dec-04	0.4	mg/l	BOD Surface
LA-30	24-Oct-07	0.40	mg/l	BOD Surface
LA-30	29-Nov-00	0.5	mg/L	BOD Surface
LA-30	17-Jan-02	0.5	mg/L	BOD Surface
LA-30	21-Feb-02	0.5	mg/L	BOD Surface
LA-30	16-May-02	0.5	mg/L	BOD Surface
LA-30	13-Mar-03	0.5	mg/L	BOD Surface
LA-30	16-Nov-05	0.5	mg/l	BOD Surface
LA-30	8-Dec-05	0.5	mg/l	BOD Surface
LA-30	12-Jan-06	0.5	mg/l	BOD Surface
LA-30	15-Nov-06	0.5	mg/l	BOD Surface
LA-30	14-Feb-08	0.50	mg/l	BOD Surface
LA-30	25-Feb-00	0.6	mg/L	BOD Surface
LA-30	25-Jan-01	0.6	mg/L	BOD Surface
LA-30	27-Mar-01	0.6	mg/L	BOD Surface
LA-30	6-Jul-01	0.6	mg/L	BOD Surface
LA-30	13-Nov-02	0.6	mg/L	BOD Surface
LA-30	4-Sep-03	0.6	mg/L	BOD Surface
LA-30	12-Apr-07	0.60	mg/l	BOD Surface
LA-30	17-Apr-08	0.60	mg/l	BOD Surface
LA-30	7-Feb-07	0.70	mg/l	BOD Surface
LA-30	20-Mar-08	0.70	mg/l	BOD Surface
LA-30	13-Apr-00	0.7	mg/L	BOD Surface
LA-30	15-Sep-00	0.7	mg/L	BOD Surface
LA-30	19-Apr-01	0.7	mg/L	BOD Surface
LA-30	5-Dec-00	0.8	mg/L	BOD Surface
LA-30	5-Nov-01	0.8	mg/L	BOD Surface
LA-30	14-May-03	0.8	mg/L	BOD Surface
LA-30	19-Nov-03	0.8	mg/L	BOD Surface

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LA-30	12-May-05	0.8	mg/l	BOD Surface					
LA-30	13-Apr-06	0.8	mg/l	BOD Surface					
LA-30	18-Jul-07	0.80	mg/l	BOD Surface					
LA-30	19-Feb-03	0.9	mg/L	BOD Surface					
LA-30	14-Apr-04	0.9	mg/L	BOD Surface					
LA-30	18-Aug-04	0.9	mg/l	BOD Surface					
LA-30	13-Oct-05	0.9	mg/l	BOD Surface					
LA-30	16-Feb-06	0.9	mg/l	BOD Surface					
LA-30	20-Jun-02	1	mg/L	BOD Surface					
LA-30	9-Aug-07	1.00	mg/l	BOD Surface					
LA-30	15-Nov-07	1.00	mg/l	BOD Surface					
LA-30	13-Jul-00	1.1	mg/L	BOD Surface					
LA-30	30-Aug-00	1.1	mg/L	BOD Surface					
LA-30	31-Jul-02	1.1	mg/L	BOD Surface					
LA-30	15-Sep-04	1.1	mg/l	BOD Surface					
LA-30	27-Apr-05	1.1	mg/l	BOD Surface					
LA-30	7-Jul-05	1.1	mg/l	BOD Surface					
LA-30	15-Jun-06	1.1	mg/l	BOD Surface					
LA-30	17-Aug-06	1.1	mg/l	BOD Surface					
LA-30	16-May-07	1.10	mg/l	BOD Surface					
LA-30	19-Dec-07	1.10	mg/l	BOD Surface					
LA-30	4-Oct-02	1.2	mg/L	BOD Surface					
LA-30	25-Feb-04	1.2	mg/L	BOD Surface					
LA-30	11-Aug-05	1.3	mg/l	BOD Surface					
LA-30	15-Sep-05	1.4	mg/l	BOD Surface					
LA-30	4-Dec-03	1.5	mg/L	BOD Surface					
LA-30	12-May-04	1.5	mg/L	BOD Surface					
LA-30	17-Jan-08	1.50	mg/l	BOD Surface					
LA-30	18-Jul-01	1.6	mg/L	BOD Surface					
LA-30	11-May-06	1.7	mg/l	BOD Surface					
LA-30	21-Sep-06	1.7	mg/l	BOD Surface					
LA-30	15-May-08	1.70	mg/l	BOD Surface					
LA-30	9-Jun-05	1.8	mg/l	BOD Surface					
LA-30	12-Jun-08	2.10	mg/l	BOD Surface	1.1	2.1	1.46875	16	2007-2008
LA-30	21-Jul-04	2.1	mg/l	BOD Surface					
LA-30	16-Jan-03	2.6	mg/L	BOD Surface					
LA-30	16-Jun-04	3.2	mg/L	BOD Surface					

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LA-30	10-Jul-03	3.3	mg/L	BOD Surface
LA-30	10-Sep-03	3.8	mg/L	BOD Surface
LA-30	20-Jul-06	6.3	mg/l	BOD Surface
LA-32B	29-Nov-00	0.1	mg/L	BOD Surface
LA-32B	10-Sep-03	0.1	mg/L	BOD Surface
LA-32B	22-Dec-04	0.1	mg/l	BOD Surface
LA-32B	27-Apr-05	0.1	mg/l	BOD Surface
LA-32B	25-Jan-07	0.1	mg/l	BOD Surface
LA-32B	25-Jan-07	0.10	mg/l	BOD Surface
LA-32B	13-Sep-01	0.2	mg/L	BOD Surface
LA-32B	9-Dec-02	0.2	mg/L	BOD Surface
LA-32B	18-Feb-04	0.2	mg/L	BOD Surface
LA-32B	7-Jul-05	0.2	mg/l	BOD Surface
LA-32B	11-Aug-05	0.2	mg/l	BOD Surface
LA-32B	12-Jan-06	0.2	mg/l	BOD Surface
LA-32B	17-Jan-08	0.20	mg/l	BOD Surface
LA-32B	17-Apr-08	0.20	mg/l	BOD Surface
LA-32B	11-Jan-01	0.3	mg/L	BOD Surface
LA-32B	13-Mar-03	0.3	mg/L	BOD Surface
LA-32B	9-Oct-03	0.3	mg/L	BOD Surface
LA-32B	8-Dec-05	0.3	mg/l	BOD Surface
LA-32B	29-Aug-02	0.4	mg/L	BOD Surface
LA-32B	10-Feb-05	0.4	mg/l	BOD Surface
LA-32B	15-Mar-07	0.40	mg/l	BOD Surface
LA-32B	3-Oct-00	0.5	mg/L	BOD Surface
LA-32B	27-Mar-01	0.5	mg/L	BOD Surface
LA-32B	6-Jul-01	0.5	mg/L	BOD Surface
LA-32B	21-Feb-02	0.5	mg/L	BOD Surface
LA-32B	16-May-02	0.5	mg/L	BOD Surface
LA-32B	20-Jan-05	0.5	mg/l	BOD Surface
LA-32B	15-Nov-06	0.5	mg/l	BOD Surface
LA-32B	24-Oct-07	0.50	mg/l	BOD Surface
LA-32B	19-Apr-01	0.6	mg/L	BOD Surface
LA-32B	18-Jul-01	0.6	mg/L	BOD Surface
LA-32B	19-Nov-03	0.6	mg/L	BOD Surface
LA-32B	21-Jan-04	0.6	mg/L	BOD Surface
LA-32B	10-Mar-05	0.6	mg/l	BOD Surface

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LA-32B	16-Nov-05	0.6	mg/l	BOD Surface
LA-32B	16-Feb-06	0.6	mg/l	BOD Surface
LA-32B	13-Apr-06	0.6	mg/l	BOD Surface
LA-32B	20-Jul-06	0.6	mg/l	BOD Surface
LA-32B	21-Sep-06	0.6	mg/l	BOD Surface
LA-32B	14-Feb-08	0.70	mg/l	BOD Surface
LA-32B	25-Jan-01	0.7	mg/L	BOD Surface
LA-32B	13-Dec-01	0.7	mg/L	BOD Surface
LA-32B	10-Mar-02	0.7	mg/L	BOD Surface
LA-32B	7-Aug-03	0.7	mg/L	BOD Surface
LA-32B	17-Mar-04	0.7	mg/L	BOD Surface
LA-32B	10-Jan-00	0.8	mg/L	BOD Surface
LA-32B	1-May-00	0.8	mg/L	BOD Surface
LA-32B	10-Dec-01	0.8	mg/L	BOD Surface
LA-32B	4-Oct-02	0.8	mg/L	BOD Surface
LA-32B	15-May-08	0.90	mg/l	BOD Surface
LA-32B	15-Sep-00	0.9	mg/L	BOD Surface
LA-32B	10-Nov-04	0.9	mg/l	BOD Surface
LA-32B	5-Dec-00	1	mg/L	BOD Surface
LA-32B	15-Feb-01	1	mg/L	BOD Surface
LA-32B	23-Aug-01	1	mg/L	BOD Surface
LA-32B	18-Aug-04	1	mg/l	BOD Surface
LA-32B	13-Oct-05	1	mg/l	BOD Surface
LA-32B	12-Apr-07	1.00	mg/l	BOD Surface
LA-32B	18-Jul-07	1.00	mg/l	BOD Surface
LA-32B	30-Aug-00	1.1	mg/L	BOD Surface
LA-32B	21-Dec-00	1.1	mg/L	BOD Surface
LA-32B	19-Feb-03	1.1	mg/L	BOD Surface
LA-32B	4-Dec-03	1.1	mg/L	BOD Surface
LA-32B	17-Aug-06	1.1	mg/l	BOD Surface
LA-32B	25-Feb-00	1.2	mg/L	BOD Surface
LA-32B	9-Jun-05	1.2	mg/l	BOD Surface
LA-32B	16-May-07	1.20	mg/l	BOD Surface
LA-32B	19-Dec-07	1.20	mg/l	BOD Surface
LA-32B	7-Feb-07	1.30	mg/l	BOD Surface
LA-32B	20-Jun-02	1.3	mg/L	BOD Surface
LA-32B	9-Aug-07	1.40	mg/l	BOD Surface

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LA-32B	15-Nov-07	1.40	mg/l	BOD Surface					
LA-32B	13-Apr-00	1.4	mg/L	BOD Surface					
LA-32B	15-Sep-05	1.4	mg/l	BOD Surface					
LA-32B	15-Jun-06	1.4	mg/l	BOD Surface					
LA-32B	10-Jul-03	1.5	mg/L	BOD Surface					
LA-32B	14-Apr-04	1.5	mg/L	BOD Surface					
LA-32B	5-Nov-01	1.6	mg/L	BOD Surface					
LA-32B	11-May-06	1.6	mg/l	BOD Surface					
LA-32B	16-Jun-04	1.8	mg/L	BOD Surface					
LA-32B	16-Jun-00	1.9	mg/L	BOD Surface					
LA-32B	13-Jul-00	1.9	mg/L	BOD Surface					
LA-32B	12-May-04	2	mg/L	BOD Surface					
LA-32B	15-Sep-04	2.1	mg/l	BOD Surface					
LA-32B	20-Mar-08	2.20	mg/l	BOD Surface					
LA-32B	12-Jun-08	2.40	mg/l	BOD Surface	1.4	2.4	1.71875	16	2007-2008
LA-32B	21-Jul-04	3.8	mg/l	BOD Surface					
LA-32B	13-Nov-02	5.3	mg/L	BOD Surface					
LA-33	7-Jul-05	0	mg/l	BOD Surface					
LA-33	15-Mar-07	0.00	mg/l	BOD Surface					
LA-33	13-Dec-01	0.1	mg/L	BOD Surface					
LA-33	17-Jan-02	0.1	mg/L	BOD Surface					
LA-33	9-Oct-03	0.1	mg/L	BOD Surface					
LA-33	30-Aug-00	0.2	mg/L	BOD Surface					
LA-33	13-Sep-01	0.2	mg/L	BOD Surface					
LA-33	20-Jun-02	0.2	mg/L	BOD Surface					
LA-33	7-Aug-03	0.2	mg/L	BOD Surface					
LA-33	21-Dec-00	0.3	mg/L	BOD Surface					
LA-33	14-Mar-02	0.3	mg/L	BOD Surface					
LA-33	19-Dec-02	0.3	mg/L	BOD Surface					
LA-33	19-Jun-03	0.3	mg/L	BOD Surface					
LA-33	12-Jan-06	0.3	mg/l	BOD Surface					
LA-33	25-Jan-07	0.3	mg/l	BOD Surface					
LA-33	25-Jan-07	0.30	mg/l	BOD Surface					
LA-33	12-Apr-07	0.30	mg/l	BOD Surface					
LA-33	19-Apr-01	0.4	mg/L	BOD Surface					
LA-33	16-May-02	0.4	mg/L	BOD Surface					
LA-33	8-Dec-05	0.4	mg/l	BOD Surface					

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LA-33	17-Jan-08	0.40	mg/l	BOD Surface
LA-33	14-Feb-08	0.40	mg/l	BOD Surface
LA-33	13-Nov-02	0.5	mg/L	BOD Surface
LA-33	9-Dec-02	0.5	mg/L	BOD Surface
LA-33	14-May-03	0.5	mg/L	BOD Surface
LA-33	4-Sep-03	0.5	mg/L	BOD Surface
LA-33	19-Nov-03	0.5	mg/L	BOD Surface
LA-33	21-Jan-04	0.5	mg/L	BOD Surface
LA-33	18-Feb-04	0.5	mg/L	BOD Surface
LA-33	10-Feb-05	0.5	mg/l	BOD Surface
LA-33	15-Sep-05	0.5	mg/l	BOD Surface
LA-33	21-Sep-06	0.5	mg/l	BOD Surface
LA-33	18-Jul-07	0.50	mg/l	BOD Surface
LA-33	12-May-05	0.6	mg/l	BOD Surface
LA-33	13-Oct-05	0.6	mg/l	BOD Surface
LA-33	15-Nov-06	0.6	mg/l	BOD Surface
LA-33	15-May-08	0.60	mg/l	BOD Surface
LA-33	24-Oct-07	0.70	mg/l	BOD Surface
LA-33	10-Jan-00	0.7	mg/L	BOD Surface
LA-33	23-Aug-01	0.7	mg/L	BOD Surface
LA-33	13-Mar-03	0.7	mg/L	BOD Surface
LA-33	17-Mar-04	0.7	mg/L	BOD Surface
LA-33	16-Nov-05	0.7	mg/l	BOD Surface
LA-33	13-Apr-06	0.7	mg/l	BOD Surface
LA-33	15-Feb-01	0.8	mg/L	BOD Surface
LA-33	10-Dec-01	0.8	mg/L	BOD Surface
LA-33	10-Mar-02	0.8	mg/L	BOD Surface
LA-33	12-May-04	0.8	mg/L	BOD Surface
LA-33	27-Apr-05	0.8	mg/l	BOD Surface
LA-33	15-Jun-06	0.8	mg/l	BOD Surface
LA-33	7-Feb-07	0.90	mg/l	BOD Surface
LA-33	9-Aug-07	0.90	mg/l	BOD Surface
LA-33	19-Dec-07	0.90	mg/l	BOD Surface
LA-33	13-Oct-04	0.9	mg/l	BOD Surface
LA-33	20-Jul-06	0.9	mg/l	BOD Surface
LA-33	29-Nov-00	1	mg/L	BOD Surface
LA-33	5-Nov-01	1	mg/L	BOD Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	4-Dec-03	1	mg/L	BOD Surface
LA-33	11-Aug-05	1	mg/l	BOD Surface
LA-33	18-Jul-01	1.1	mg/L	BOD Surface
LA-33	29-Aug-02	1.1	mg/L	BOD Surface
LA-33	16-Jan-03	1.1	mg/L	BOD Surface
LA-33	10-Nov-04	1.1	mg/l	BOD Surface
LA-33	17-Aug-06	1.1	mg/l	BOD Surface
LA-33	15-Nov-07	1.30	mg/l	BOD Surface
LA-33	13-Jul-00	1.3	mg/L	BOD Surface
LA-33	25-Jan-01	1.3	mg/L	BOD Surface
LA-33	14-Apr-04	1.3	mg/L	BOD Surface
LA-33	11-May-06	1.3	mg/l	BOD Surface
LA-33	17-Apr-08	1.40	mg/l	BOD Surface
LA-33	6-Jul-01	1.4	mg/L	BOD Surface
LA-33	20-Jan-05	1.4	mg/l	BOD Surface
LA-33	5-Dec-00	1.5	mg/L	BOD Surface
LA-33	9-Jun-05	1.5	mg/l	BOD Surface
LA-33	3-Oct-00	1.7	mg/L	BOD Surface
LA-33	4-Oct-02	1.7	mg/L	BOD Surface
LA-33	10-Jul-03	1.7	mg/L	BOD Surface
LA-33	18-Aug-04	1.7	mg/l	BOD Surface
LA-33	22-Dec-04	1.8	mg/l	BOD Surface
LA-33	31-Jul-02	1.9	mg/L	BOD Surface
LA-33	19-Feb-03	1.9	mg/L	BOD Surface
LA-33	10-Mar-05	1.9	mg/l	BOD Surface
LA-33	20-Mar-08	2.00	mg/l	BOD Surface
LA-33	16-May-07	2.10	mg/l	BOD Surface
LA-33	16-Feb-06	2.1	mg/l	BOD Surface
LA-33	21-Feb-02	2.7	mg/L	BOD Surface
LA-33	16-Jun-04	2.7	mg/L	BOD Surface
LA-33	15-Sep-04	2.7	mg/l	BOD Surface
LA-33	12-Jun-08	2.80	mg/l	BOD Surface
LA-33	1-May-00	2.8	mg/L	BOD Surface
LA-33	21-Jul-04	2.9	mg/l	BOD Surface
LA-33	11-Jan-01	3.2	mg/L	BOD Surface
LA-33	25-Feb-00	3.5	mg/L	BOD Surface
LA-33	15-Sep-00	4.4	mg/L	BOD Surface

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LA-35	24-Oct-07	0.00	mg/l	BOD Surface
LA-35	13-Dec-01	0.1	mg/L	BOD Surface
LA-35	7-Jul-05	0.1	mg/l	BOD Surface
LA-35	25-Jan-07	0.1	mg/l	BOD Surface
LA-35	25-Jan-07	0.10	mg/l	BOD Surface
LA-35	15-Mar-07	0.10	mg/l	BOD Surface
LA-35	13-Sep-01	0.2	mg/L	BOD Surface
LA-35	10-Dec-01	0.2	mg/L	BOD Surface
LA-35	10-Mar-02	0.2	mg/L	BOD Surface
LA-35	20-Jan-05	0.2	mg/l	BOD Surface
LA-35	27-Apr-05	0.2	mg/l	BOD Surface
LA-35	19-Jun-03	0.3	mg/L	BOD Surface
LA-35	21-Jan-04	0.3	mg/L	BOD Surface
LA-35	29-Nov-00	0.4	mg/L	BOD Surface
LA-35	19-Apr-01	0.4	mg/L	BOD Surface
LA-35	9-Dec-02	0.4	mg/L	BOD Surface
LA-35	13-Mar-03	0.4	mg/L	BOD Surface
LA-35	13-Oct-04	0.4	mg/l	BOD Surface
LA-35	22-Dec-04	0.4	mg/l	BOD Surface
LA-35	16-Nov-05	0.4	mg/l	BOD Surface
LA-35	8-Dec-05	0.4	mg/l	BOD Surface
LA-35	17-Jan-08	0.40	mg/l	BOD Surface
LA-35	13-Jul-00	0.5	mg/L	BOD Surface
LA-35	3-Oct-00	0.5	mg/L	BOD Surface
LA-35	27-Mar-01	0.5	mg/L	BOD Surface
LA-35	29-Aug-02	0.5	mg/L	BOD Surface
LA-35	4-Sep-03	0.5	mg/L	BOD Surface
LA-35	10-Sep-03	0.5	mg/L	BOD Surface
LA-35	17-Mar-04	0.5	mg/L	BOD Surface
LA-35	10-Feb-05	0.5	mg/l	BOD Surface
LA-35	10-Mar-05	0.5	mg/l	BOD Surface
LA-35	12-Jan-06	0.5	mg/l	BOD Surface
LA-35	13-Apr-06	0.5	mg/l	BOD Surface
LA-35	21-Sep-06	0.5	mg/l	BOD Surface
LA-35	12-Apr-07	0.50	mg/l	BOD Surface
LA-35	17-Jan-02	0.6	mg/L	BOD Surface
LA-35	19-Feb-03	0.6	mg/L	BOD Surface

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LA-35	9-Oct-03	0.6	mg/L	BOD Surface
LA-35	19-Nov-03	0.6	mg/L	BOD Surface
LA-35	10-Nov-04	0.6	mg/l	BOD Surface
LA-35	12-May-05	0.6	mg/l	BOD Surface
LA-35	15-Nov-06	0.6	mg/l	BOD Surface
LA-35	14-Feb-08	0.60	mg/l	BOD Surface
LA-35	15-May-08	0.60	mg/l	BOD Surface
LA-35	13-Apr-00	0.7	mg/L	BOD Surface
LA-35	23-Aug-01	0.7	mg/L	BOD Surface
LA-35	20-Jun-02	0.7	mg/L	BOD Surface
LA-35	14-May-03	0.7	mg/L	BOD Surface
LA-35	15-Sep-05	0.7	mg/l	BOD Surface
LA-35	13-Oct-05	0.7	mg/l	BOD Surface
LA-35	20-Jul-06	0.7	mg/l	BOD Surface
LA-35	18-Jul-01	0.8	mg/L	BOD Surface
LA-35	5-Nov-01	0.8	mg/L	BOD Surface
LA-35	7-Aug-03	0.8	mg/L	BOD Surface
LA-35	4-Dec-03	0.8	mg/L	BOD Surface
LA-35	18-Feb-04	0.8	mg/L	BOD Surface
LA-35	7-Feb-07	0.80	mg/l	BOD Surface
LA-35	17-Apr-08	0.80	mg/l	BOD Surface
LA-35	18-Jul-07	0.90	mg/l	BOD Surface
LA-35	30-Aug-00	0.9	mg/L	BOD Surface
LA-35	15-Sep-00	0.9	mg/L	BOD Surface
LA-35	11-Jan-01	0.9	mg/L	BOD Surface
LA-35	15-Feb-01	0.9	mg/L	BOD Surface
LA-35	21-Feb-02	0.9	mg/L	BOD Surface
LA-35	14-Mar-02	0.9	mg/L	BOD Surface
LA-35	11-May-06	0.9	mg/l	BOD Surface
LA-35	19-Dec-02	1	mg/L	BOD Surface
LA-35	16-Jan-03	1	mg/L	BOD Surface
LA-35	16-Feb-06	1	mg/l	BOD Surface
LA-35	16-May-07	1.00	mg/l	BOD Surface
LA-35	9-Aug-07	1.00	mg/l	BOD Surface
LA-35	15-Nov-07	1.00	mg/l	BOD Surface
LA-35	25-Feb-00	1.1	mg/L	BOD Surface
LA-35	21-Dec-00	1.1	mg/L	BOD Surface

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LA-35	12-May-04	1.1	mg/L	BOD Surface
LA-35	11-Aug-05	1.1	mg/l	BOD Surface
LA-35	15-Jun-06	1.1	mg/l	BOD Surface
LA-35	17-Aug-06	1.1	mg/l	BOD Surface
LA-35	19-Dec-07	1.10	mg/l	BOD Surface
LA-35	25-Jan-01	1.2	mg/L	BOD Surface
LA-35	14-Apr-04	1.2	mg/L	BOD Surface
LA-35	9-Jun-05	1.3	mg/l	BOD Surface
LA-35	5-Dec-00	1.4	mg/L	BOD Surface
LA-35	31-Jul-02	1.4	mg/L	BOD Surface
LA-35	16-May-02	1.5	mg/L	BOD Surface
LA-35	4-Oct-02	1.6	mg/L	BOD Surface
LA-35	21-Jul-04	1.6	mg/l	BOD Surface
LA-35	1-May-00	1.8	mg/L	BOD Surface
LA-35	16-Jun-04	1.8	mg/L	BOD Surface
LA-35	20-Mar-08	2.10	mg/l	BOD Surface
LA-35	18-Aug-04	2.1	mg/l	BOD Surface
LA-35	12-Jun-08	2.30	mg/l	BOD Surface
LA-35	6-Jul-01	2.3	mg/L	BOD Surface
LA-35	10-Jul-03	2.3	mg/L	BOD Surface
LA-35	15-Sep-04	2.3	mg/l	BOD Surface
LA-35	16-Jun-00	3	mg/L	BOD Surface
LA-35	10-Jan-00	5.2	mg/L	BOD Surface
LA-39	11-Jan-01	0.1	mg/L	BOD Surface
LA-39	17-Jan-02	0.1	mg/L	BOD Surface
LA-39	15-Sep-05	0.1	mg/l	BOD Surface
LA-39	27-Mar-01	0.2	mg/L	BOD Surface
LA-39	13-Dec-01	0.2	mg/L	BOD Surface
LA-39	15-Mar-07	0.20	mg/l	BOD Surface
LA-39	19-Nov-03	0.3	mg/L	BOD Surface
LA-39	13-Sep-01	0.4	mg/L	BOD Surface
LA-39	20-Jun-02	0.4	mg/L	BOD Surface
LA-39	19-Jun-03	0.4	mg/L	BOD Surface
LA-39	14-Apr-04	0.4	mg/L	BOD Surface
LA-39	16-Feb-06	0.4	mg/l	BOD Surface
LA-39	25-Jan-07	0.4	mg/l	BOD Surface
LA-39	25-Jan-07	0.40	mg/l	BOD Surface

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LA-39	13-Apr-00	0.5	mg/L	BOD Surface
LA-39	25-Jan-01	0.5	mg/L	BOD Surface
LA-39	9-Dec-02	0.5	mg/L	BOD Surface
LA-39	8-Dec-05	0.5	mg/l	BOD Surface
LA-39	14-Feb-08	0.50	mg/l	BOD Surface
LA-39	21-Feb-02	0.6	mg/L	BOD Surface
LA-39	19-Feb-03	0.6	mg/L	BOD Surface
LA-39	7-Feb-07	0.60	mg/l	BOD Surface
LA-39	6-Jul-01	0.7	mg/L	BOD Surface
LA-39	4-Oct-02	0.7	mg/L	BOD Surface
LA-39	12-Jan-06	0.7	mg/l	BOD Surface
LA-39	21-Jan-04	0.8	mg/L	BOD Surface
LA-39	15-Jun-06	0.8	mg/l	BOD Surface
LA-39	13-Mar-03	0.9	mg/L	BOD Surface
LA-39	10-Dec-01	1	mg/L	BOD Surface
LA-39	10-Sep-03	1	mg/L	BOD Surface
LA-39	12-May-05	1	mg/l	BOD Surface
LA-39	17-Apr-08	1.00	mg/l	BOD Surface
LA-39	17-Aug-06	1.1	mg/l	BOD Surface
LA-39	12-Apr-07	1.10	mg/l	BOD Surface
LA-39	15-May-08	1.10	mg/l	BOD Surface
LA-39	16-May-02	1.2	mg/L	BOD Surface
LA-39	13-Nov-02	1.2	mg/L	BOD Surface
LA-39	14-May-03	1.2	mg/L	BOD Surface
LA-39	15-Nov-06	1.2	mg/l	BOD Surface
LA-39	24-Oct-07	1.20	mg/l	BOD Surface
LA-39	17-Jan-08	1.30	mg/l	BOD Surface
LA-39	19-Apr-01	1.3	mg/L	BOD Surface
LA-39	29-Aug-02	1.3	mg/L	BOD Surface
LA-39	10-Mar-05	1.3	mg/l	BOD Surface
LA-39	9-Jun-05	1.3	mg/l	BOD Surface
LA-39	29-Nov-00	1.4	mg/L	BOD Surface
LA-39	5-Nov-01	1.4	mg/L	BOD Surface
LA-39	4-Sep-03	1.4	mg/L	BOD Surface
LA-39	13-Oct-05	1.4	mg/l	BOD Surface
LA-39	18-Feb-04	1.5	mg/L	BOD Surface
LA-39	18-Jul-01	1.6	mg/L	BOD Surface

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LA-39	19-Dec-02	1.6	mg/L	BOD Surface
LA-39	11-May-06	1.6	mg/l	BOD Surface
LA-39	9-Aug-07	1.60	mg/l	BOD Surface
LA-39	19-Dec-07	1.60	mg/l	BOD Surface
LA-39	17-Mar-04	1.7	mg/L	BOD Surface
LA-39	20-Mar-08	1.70	mg/l	BOD Surface
LA-39	18-Jul-07	1.80	mg/l	BOD Surface
LA-39	20-Jan-05	1.8	mg/l	BOD Surface
LA-39	4-Dec-03	1.9	mg/L	BOD Surface
LA-39	13-Oct-04	1.9	mg/l	BOD Surface
LA-39	22-Dec-04	1.9	mg/l	BOD Surface
LA-39	16-Nov-05	1.9	mg/l	BOD Surface
LA-39	3-Oct-00	2	mg/L	BOD Surface
LA-39	10-Jul-03	2	mg/L	BOD Surface
LA-39	16-May-07	2.00	mg/l	BOD Surface
LA-39	15-Nov-07	2.00	mg/l	BOD Surface
LA-39	31-Jul-02	2.1	mg/L	BOD Surface
LA-39	10-Feb-05	2.1	mg/l	BOD Surface
LA-39	11-Aug-05	2.1	mg/l	BOD Surface
LA-39	12-May-04	2.2	mg/L	BOD Surface
LA-39	13-Apr-06	2.2	mg/l	BOD Surface
LA-39	1-May-00	2.3	mg/L	BOD Surface
LA-39	23-Aug-01	2.5	mg/L	BOD Surface
LA-39	20-Jul-06	2.5	mg/l	BOD Surface
LA-39	10-Jan-00	2.6	mg/L	BOD Surface
LA-39	13-Jul-00	2.7	mg/L	BOD Surface
LA-39	15-Feb-01	2.7	mg/L	BOD Surface
LA-39	21-Sep-06	2.7	mg/l	BOD Surface
LA-39	16-Jun-00	2.8	mg/L	BOD Surface
LA-39	30-Aug-00	2.9	mg/L	BOD Surface
LA-39	18-Aug-04	3.3	mg/l	BOD Surface
LA-39	15-Sep-00	3.6	mg/L	BOD Surface
LA-39	25-Feb-00	3.9	mg/L	BOD Surface
LA-39	5-Dec-00	3.9	mg/L	BOD Surface
LA-39	7-Jul-05	3.9	mg/l	BOD Surface
LA-39	21-Jul-04	4.3	mg/l	BOD Surface
LA-39	16-Jun-04	4.7	mg/L	BOD Surface

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LA-39	27-Apr-05	5	mg/l	BOD Surface
LA-39	16-Jan-03	5.2	mg/L	BOD Surface
LA-39	9-Oct-03	5.3	mg/L	BOD Surface
LA-39	15-Sep-04	5.8	mg/l	BOD Surface
LA-39	10-Nov-04	6.1	mg/l	BOD Surface
LA-39	7-Aug-03	7.3	mg/L	BOD Surface
LA-39	12-Jun-08	7.70	mg/l	BOD Surface
LA-41	20-Jan-05	0	mg/l	BOD Surface
LA-41	16-May-07	0.00	mg/l	BOD Surface
LA-41	15-Sep-00	0.1	mg/L	BOD Surface
LA-41	15-Sep-00	0.1	mg/L	BOD Surface
LA-41	13-Dec-01	0.1	mg/L	BOD Surface
LA-41	4-Sep-03	0.1	mg/L	BOD Surface
LA-41	10-Mar-05	0.1	mg/l	BOD Surface
LA-41	15-Mar-07	0.10	mg/l	BOD Surface
LA-41	15-Nov-07	0.10	mg/l	BOD Surface
LA-41	1-May-00	0.2	mg/L	BOD Surface
LA-41	29-Nov-00	0.2	mg/L	BOD Surface
LA-41	11-Jan-01	0.2	mg/L	BOD Surface
LA-41	18-Jul-01	0.2	mg/L	BOD Surface
LA-41	13-Sep-01	0.2	mg/L	BOD Surface
LA-41	4-Oct-02	0.2	mg/L	BOD Surface
LA-41	13-Oct-04	0.2	mg/l	BOD Surface
LA-41	10-Nov-04	0.2	mg/l	BOD Surface
LA-41	16-Feb-06	0.2	mg/l	BOD Surface
LA-41	25-Jan-07	0.2	mg/l	BOD Surface
LA-41	25-Jan-07	0.20	mg/l	BOD Surface
LA-41	6-Jul-01	0.3	mg/L	BOD Surface
LA-41	19-Dec-02	0.3	mg/L	BOD Surface
LA-41	22-Dec-04	0.3	mg/l	BOD Surface
LA-41	16-Nov-05	0.3	mg/l	BOD Surface
LA-41	12-Jan-06	0.3	mg/l	BOD Surface
LA-41	15-Jun-06	0.3	mg/l	BOD Surface
LA-41	12-Apr-07	0.30	mg/l	BOD Surface
LA-41	10-Feb-05	0.4	mg/l	BOD Surface
LA-41	8-Dec-05	0.4	mg/l	BOD Surface
LA-41	7-Feb-07	0.40	mg/l	BOD Surface

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LA-41	18-Jul-07	0.40	mg/l	BOD Surface
LA-41	25-Jan-01	0.5	mg/L	BOD Surface
LA-41	27-Mar-01	0.5	mg/L	BOD Surface
LA-41	14-Mar-02	0.5	mg/L	BOD Surface
LA-41	31-Jul-02	0.5	mg/L	BOD Surface
LA-41	15-Nov-06	0.5	mg/l	BOD Surface
LA-41	15-Feb-01	0.6	mg/L	BOD Surface
LA-41	23-Aug-01	0.6	mg/L	BOD Surface
LA-41	21-Feb-02	0.6	mg/L	BOD Surface
LA-41	16-May-02	0.6	mg/L	BOD Surface
LA-41	13-Mar-03	0.6	mg/L	BOD Surface
LA-41	7-Aug-03	0.6	mg/L	BOD Surface
LA-41	4-Dec-03	0.6	mg/L	BOD Surface
LA-41	17-Mar-04	0.6	mg/L	BOD Surface
LA-41	15-Sep-04	0.6	mg/l	BOD Surface
LA-41	21-Sep-06	0.6	mg/l	BOD Surface
LA-41	9-Aug-07	0.70	mg/l	BOD Surface
LA-41	30-Aug-00	0.7	mg/L	BOD Surface
LA-41	9-Oct-03	0.7	mg/L	BOD Surface
LA-41	13-Apr-00	0.8	mg/L	BOD Surface
LA-41	5-Nov-01	0.8	mg/L	BOD Surface
LA-41	12-May-05	0.8	mg/l	BOD Surface
LA-41	13-Oct-05	0.8	mg/l	BOD Surface
LA-41	13-Apr-06	0.8	mg/l	BOD Surface
LA-41	17-Aug-06	0.8	mg/l	BOD Surface
LA-41	15-May-08	0.80	mg/l	BOD Surface
LA-41	17-Apr-08	0.90	mg/l	BOD Surface
LA-41	29-Aug-02	0.9	mg/L	BOD Surface
LA-41	25-Feb-04	0.9	mg/L	BOD Surface
LA-41	20-Jun-02	1	mg/L	BOD Surface
LA-41	13-Nov-02	1	mg/L	BOD Surface
LA-41	14-May-03	1.1	mg/L	BOD Surface
LA-41	15-Sep-05	1.1	mg/l	BOD Surface
LA-41	11-May-06	1.1	mg/l	BOD Surface
LA-41	20-Mar-08	1.10	mg/l	BOD Surface
LA-41	18-Aug-04	1.2	mg/l	BOD Surface
LA-41	14-Feb-08	1.20	mg/l	BOD Surface

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LA-41	13-Jul-00	1.3	mg/L	BOD Surface
LA-41	19-Apr-01	1.3	mg/L	BOD Surface
LA-41	21-Jan-04	1.3	mg/L	BOD Surface
LA-41	14-Apr-04	1.3	mg/L	BOD Surface
LA-41	25-Feb-00	1.4	mg/L	BOD Surface
LA-41	19-Feb-03	1.4	mg/L	BOD Surface
LA-41	10-Jul-03	1.6	mg/L	BOD Surface
LA-41	9-Jun-05	1.6	mg/l	BOD Surface
LA-41	7-Jul-05	1.6	mg/l	BOD Surface
LA-41	16-Jun-00	1.8	mg/L	BOD Surface
LA-41	12-Jun-08	1.90	mg/l	BOD Surface
LA-41	19-Nov-03	1.9	mg/L	BOD Surface
LA-41	5-Dec-00	2.2	mg/L	BOD Surface
LA-41	11-Aug-05	2.2	mg/l	BOD Surface
LA-41	24-Oct-07	2.20	mg/l	BOD Surface
LA-41	20-Jul-06	2.4	mg/l	BOD Surface
LA-41	12-May-04	2.9	mg/L	BOD Surface
LA-41	21-Jul-04	3.3	mg/l	BOD Surface
LA-41	19-Jun-03	3.9	mg/L	BOD Surface
LA-41	19-Dec-07	4.50	mg/l	BOD Surface
LA-41	16-Jun-04	4.6	mg/L	BOD Surface
LA-41	10-Sep-03	6.7	mg/L	BOD Surface
LA-41	17-Jan-08		mg/l	BOD Surface
LA-44	15-Mar-07	0.00	mg/l	BOD Surface
LA-44	24-Oct-07	0.00	mg/l	BOD Surface
LA-44	15-Sep-00	0.1	mg/L	BOD Surface
LA-44	19-Feb-03	0.1	mg/L	BOD Surface
LA-44	25-Jan-07	0.1	mg/l	BOD Surface
LA-44	25-Jan-07	0.10	mg/l	BOD Surface
LA-44	7-Feb-07	0.10	mg/l	BOD Surface
LA-44	12-Apr-07	0.10	mg/l	BOD Surface
LA-44	25-Feb-00	0.2	mg/L	BOD Surface
LA-44	11-Jan-01	0.2	mg/L	BOD Surface
LA-44	5-Nov-01	0.2	mg/L	BOD Surface
LA-44	17-Jan-02	0.2	mg/L	BOD Surface
LA-44	13-Oct-04	0.2	mg/l	BOD Surface
LA-44	13-Dec-01	0.3	mg/L	BOD Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	9-Dec-02	0.3 mg/L	BOD Surface
LA-44	9-Oct-03	0.3 mg/L	BOD Surface
LA-44	25-Feb-04	0.3 mg/L	BOD Surface
LA-44	20-Jan-05	0.3 mg/l	BOD Surface
LA-44	10-Feb-05	0.3 mg/l	BOD Surface
LA-44	8-Dec-05	0.3 mg/l	BOD Surface
LA-44	12-Jan-06	0.3 mg/l	BOD Surface
LA-44	13-Apr-06	0.3 mg/l	BOD Surface
LA-44	10-Jan-00	0.4 mg/L	BOD Surface
LA-44	13-Sep-01	0.4 mg/L	BOD Surface
LA-44	14-Mar-02	0.4 mg/L	BOD Surface
LA-44	22-Dec-04	0.4 mg/l	BOD Surface
LA-44	16-Nov-05	0.4 mg/l	BOD Surface
LA-44	9-Aug-07	0.40 mg/l	BOD Surface
LA-44	15-Nov-07	0.40 mg/l	BOD Surface
LA-44	20-Mar-08	0.40 mg/l	BOD Surface
LA-44	30-Aug-00	0.5 mg/L	BOD Surface
LA-44	15-Feb-01	0.5 mg/L	BOD Surface
LA-44	18-Jul-01	0.5 mg/L	BOD Surface
LA-44	19-Dec-02	0.5 mg/L	BOD Surface
LA-44	4-Dec-03	0.5 mg/L	BOD Surface
LA-44	10-Nov-04	0.5 mg/l	BOD Surface
LA-44	16-Feb-06	0.5 mg/l	BOD Surface
LA-44	21-Sep-06	0.5 mg/l	BOD Surface
LA-44	15-Nov-06	0.5 mg/l	BOD Surface
LA-44	16-May-07	0.50 mg/l	BOD Surface
LA-44	14-Feb-08	0.50 mg/l	BOD Surface
LA-44	19-Apr-01	0.6 mg/L	BOD Surface
LA-44	23-Aug-01	0.6 mg/L	BOD Surface
LA-44	16-Jan-03	0.6 mg/L	BOD Surface
LA-44	14-May-03	0.6 mg/L	BOD Surface
LA-44	7-Aug-03	0.6 mg/L	BOD Surface
LA-44	17-Apr-08	0.60 mg/l	BOD Surface
LA-44	17-Jan-08	0.70 mg/l	BOD Surface
LA-44	13-Nov-02	0.7 mg/L	BOD Surface
LA-44	4-Sep-03	0.7 mg/L	BOD Surface
LA-44	17-Mar-04	0.7 mg/L	BOD Surface

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LA-44	10-Sep-03	0.8	mg/L	BOD Surface
LA-44	19-Nov-03	0.8	mg/L	BOD Surface
LA-44	13-Oct-05	0.8	mg/l	BOD Surface
LA-44	18-Jul-07	0.80	mg/l	BOD Surface
LA-44	15-May-08	0.90	mg/l	BOD Surface
LA-44	29-Nov-00	0.9	mg/L	BOD Surface
LA-44	5-Dec-00	0.9	mg/L	BOD Surface
LA-44	27-Mar-01	0.9	mg/L	BOD Surface
LA-44	6-Jul-01	0.9	mg/L	BOD Surface
LA-44	18-Aug-04	0.9	mg/l	BOD Surface
LA-44	17-Aug-06	0.9	mg/l	BOD Surface
LA-44	20-Jun-02	1	mg/L	BOD Surface
LA-44	15-Sep-04	1	mg/l	BOD Surface
LA-44	27-Apr-05	1	mg/l	BOD Surface
LA-44	11-Aug-05	1	mg/l	BOD Surface
LA-44	15-Jun-06	1	mg/l	BOD Surface
LA-44	12-Jun-08	1.00	mg/l	BOD Surface
LA-44	13-Jul-00	1.3	mg/L	BOD Surface
LA-44	29-Aug-02	1.3	mg/L	BOD Surface
LA-44	10-Mar-05	1.3	mg/l	BOD Surface
LA-44	20-Jul-06	1.3	mg/l	BOD Surface
LA-44	16-May-02	1.4	mg/L	BOD Surface
LA-44	4-Oct-02	1.4	mg/L	BOD Surface
LA-44	21-Jan-04	1.4	mg/L	BOD Surface
LA-44	7-Jul-05	1.4	mg/l	BOD Surface
LA-44	15-Sep-05	1.4	mg/l	BOD Surface
LA-44	31-Jul-02	1.6	mg/L	BOD Surface
LA-44	14-Apr-04	1.7	mg/L	BOD Surface
LA-44	12-May-05	1.7	mg/l	BOD Surface
LA-44	19-Jun-03	1.8	mg/L	BOD Surface
LA-44	12-May-04	2.1	mg/L	BOD Surface
LA-44	21-Jul-04	2.1	mg/l	BOD Surface
LA-44	9-Jun-05	2.1	mg/l	BOD Surface
LA-44	11-May-06	2.3	mg/l	BOD Surface
LA-44	1-May-00	2.4	mg/L	BOD Surface
LA-44	16-Jun-04	2.4	mg/L	BOD Surface
LA-44	19-Dec-07	3.00	mg/l	BOD Surface

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LA-44	16-Jun-00	3.5	mg/L	BOD Surface
LA-44	10-Jul-03	3.5	mg/L	BOD Surface
LA-46	20-Jan-05	0	mg/l	BOD Surface
LA-46	10-Jan-00	0.1	mg/L	BOD Surface
LA-46	10-Mar-02	0.1	mg/L	BOD Surface
LA-46	19-Feb-03	0.1	mg/L	BOD Surface
LA-46	25-Feb-04	0.1	mg/L	BOD Surface
LA-46	22-Dec-04	0.1	mg/l	BOD Surface
LA-46	25-Jan-07	0.1	mg/l	BOD Surface
LA-46	25-Jan-07	0.10	mg/l	BOD Surface
LA-46	15-Mar-07	0.10	mg/l	BOD Surface
LA-46	12-Apr-07	0.10	mg/l	BOD Surface
LA-46	14-Feb-08	0.10	mg/l	BOD Surface
LA-46	29-Nov-00	0.2	mg/L	BOD Surface
LA-46	19-Apr-01	0.2	mg/L	BOD Surface
LA-46	17-Jan-02	0.2	mg/L	BOD Surface
LA-46	4-Oct-02	0.2	mg/L	BOD Surface
LA-46	19-Dec-02	0.2	mg/L	BOD Surface
LA-46	17-Mar-04	0.2	mg/L	BOD Surface
LA-46	10-Mar-05	0.2	mg/l	BOD Surface
LA-46	16-Feb-06	0.2	mg/l	BOD Surface
LA-46	11-Jan-01	0.3	mg/L	BOD Surface
LA-46	18-Jul-01	0.3	mg/L	BOD Surface
LA-46	13-Oct-04	0.3	mg/l	BOD Surface
LA-46	10-Feb-05	0.3	mg/l	BOD Surface
LA-46	8-Dec-05	0.3	mg/l	BOD Surface
LA-46	17-Jan-08	0.30	mg/l	BOD Surface
LA-46	3-Oct-00	0.4	mg/L	BOD Surface
LA-46	10-Nov-04	0.4	mg/l	BOD Surface
LA-46	16-Nov-05	0.4	mg/l	BOD Surface
LA-46	13-Apr-06	0.4	mg/l	BOD Surface
LA-46	7-Feb-07	0.40	mg/l	BOD Surface
LA-46	17-Apr-08	0.40	mg/l	BOD Surface
LA-46	12-Jun-08	0.40	mg/l	BOD Surface
LA-46	23-Aug-01	0.5	mg/L	BOD Surface
LA-46	5-Nov-01	0.5	mg/L	BOD Surface
LA-46	13-Dec-01	0.5	mg/L	BOD Surface

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LA-46	14-Mar-02	0.5	mg/L	BOD Surface
LA-46	13-Nov-02	0.5	mg/L	BOD Surface
LA-46	10-Sep-03	0.5	mg/L	BOD Surface
LA-46	4-Dec-03	0.5	mg/L	BOD Surface
LA-46	21-Jan-04	0.5	mg/L	BOD Surface
LA-46	12-Jan-06	0.5	mg/l	BOD Surface
LA-46	21-Sep-06	0.5	mg/l	BOD Surface
LA-46	15-Nov-06	0.5	mg/l	BOD Surface
LA-46	25-Feb-00	0.6	mg/L	BOD Surface
LA-46	1-May-00	0.6	mg/L	BOD Surface
LA-46	29-Aug-02	0.6	mg/L	BOD Surface
LA-46	4-Sep-03	0.6	mg/L	BOD Surface
LA-46	9-Oct-03	0.6	mg/L	BOD Surface
LA-46	14-Apr-04	0.6	mg/L	BOD Surface
LA-46	12-May-05	0.6	mg/l	BOD Surface
LA-46	9-Aug-07	0.60	mg/l	BOD Surface
LA-46	15-Nov-07	0.60	mg/l	BOD Surface
LA-46	20-Mar-08	0.60	mg/l	BOD Surface
LA-46	24-Oct-07	0.70	mg/l	BOD Surface
LA-46	27-Mar-01	0.7	mg/L	BOD Surface
LA-46	14-May-03	0.7	mg/L	BOD Surface
LA-46	11-Aug-05	0.7	mg/l	BOD Surface
LA-46	17-Aug-06	0.7	mg/l	BOD Surface
LA-46	6-Jul-01	0.8	mg/L	BOD Surface
LA-46	18-Jul-07	0.80	mg/l	BOD Surface
LA-46	30-Aug-00	0.9	mg/L	BOD Surface
LA-46	15-Feb-01	0.9	mg/L	BOD Surface
LA-46	13-Oct-05	0.9	mg/l	BOD Surface
LA-46	15-Sep-00	1	mg/L	BOD Surface
LA-46	20-Jul-06	1	mg/l	BOD Surface
LA-46	16-May-07	1.00	mg/l	BOD Surface
LA-46	13-Jul-00	1.1	mg/L	BOD Surface
LA-46	16-Jun-00	1.2	mg/L	BOD Surface
LA-46	20-Jun-02	1.2	mg/L	BOD Surface
LA-46	15-Jun-06	1.2	mg/l	BOD Surface
LA-46	19-Dec-07	1.20	mg/l	BOD Surface
LA-46	11-May-06	1.3	mg/l	BOD Surface

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LA-46	19-Jun-03	1.4	mg/L	BOD Surface
LA-46	16-Jun-04	1.4	mg/L	BOD Surface
LA-46	15-Sep-04	1.4	mg/l	BOD Surface
LA-46	5-Dec-00	1.5	mg/L	BOD Surface
LA-46	12-May-04	1.5	mg/L	BOD Surface
LA-46	18-Aug-04	1.5	mg/l	BOD Surface
LA-46	9-Jun-05	1.5	mg/l	BOD Surface
LA-46	7-Jul-05	1.6	mg/l	BOD Surface
LA-46	15-Sep-05	1.6	mg/l	BOD Surface
LA-46	19-Nov-03	1.7	mg/L	BOD Surface
LA-46	15-May-08	1.90	mg/l	BOD Surface
LA-46	31-Jul-02	2.1	mg/L	BOD Surface
LA-46	21-Jul-04	2.2	mg/l	BOD Surface
LA-46	10-Jul-03	3.2	mg/L	BOD Surface
LA-46	16-Jan-03	5.2	mg/L	BOD Surface
LA-47	20-Mar-08	-0.10	mg/l	BOD Surface
LA-47	22-Dec-04	0	mg/l	BOD Surface
LA-47	24-Oct-07	0.00	mg/l	BOD Surface
LA-47	13-Dec-01	0.1	mg/L	BOD Surface
LA-47	17-Jan-02	0.1	mg/L	BOD Surface
LA-47	10-Feb-05	0.1	mg/l	BOD Surface
LA-47	11-Jan-01	0.2	mg/L	BOD Surface
LA-47	16-Nov-05	0.2	mg/l	BOD Surface
LA-47	16-Feb-06	0.2	mg/l	BOD Surface
LA-47	7-Feb-07	0.20	mg/l	BOD Surface
LA-47	23-Aug-01	0.3	mg/L	BOD Surface
LA-47	21-Feb-02	0.3	mg/L	BOD Surface
LA-47	14-Mar-02	0.3	mg/L	BOD Surface
LA-47	15-Mar-07	0.30	mg/l	BOD Surface
LA-47	18-Jul-07	0.30	mg/l	BOD Surface
LA-47	14-Feb-08	0.30	mg/l	BOD Surface
LA-47	17-Apr-08	0.30	mg/l	BOD Surface
LA-47	21-Dec-00	0.4	mg/L	BOD Surface
LA-47	18-Jul-01	0.4	mg/L	BOD Surface
LA-47	19-Dec-02	0.4	mg/L	BOD Surface
LA-47	10-Nov-04	0.4	mg/l	BOD Surface
LA-47	20-Jan-05	0.4	mg/l	BOD Surface

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LA-47	8-Dec-05	0.4	mg/l	BOD Surface
LA-47	25-Jan-07	0.4	mg/l	BOD Surface
LA-47	25-Jan-07	0.40	mg/l	BOD Surface
LA-47	17-Jan-08	0.40	mg/l	BOD Surface
LA-47	13-Mar-03	0.5	mg/L	BOD Surface
LA-47	4-Sep-03	0.5	mg/L	BOD Surface
LA-47	13-Oct-04	0.5	mg/l	BOD Surface
LA-47	12-Jan-06	0.5	mg/l	BOD Surface
LA-47	10-Jan-00	0.6	mg/L	BOD Surface
LA-47	1-May-00	0.6	mg/L	BOD Surface
LA-47	4-Oct-02	0.6	mg/L	BOD Surface
LA-47	21-Sep-06	0.6	mg/l	BOD Surface
LA-47	16-May-07	0.60	mg/l	BOD Surface
LA-47	9-Aug-07	0.60	mg/l	BOD Surface
LA-47	12-Apr-07	0.70	mg/l	BOD Surface
LA-47	3-Oct-00	0.7	mg/L	BOD Surface
LA-47	19-Apr-01	0.7	mg/L	BOD Surface
LA-47	31-Jul-02	0.7	mg/L	BOD Surface
LA-47	19-Feb-03	0.7	mg/L	BOD Surface
LA-47	9-Oct-03	0.7	mg/L	BOD Surface
LA-47	25-Feb-04	0.7	mg/L	BOD Surface
LA-47	17-Mar-04	0.7	mg/L	BOD Surface
LA-47	16-May-02	0.8	mg/L	BOD Surface
LA-47	9-Dec-02	0.8	mg/L	BOD Surface
LA-47	19-Jun-03	0.8	mg/L	BOD Surface
LA-47	21-Jan-04	0.8	mg/L	BOD Surface
LA-47	14-Apr-04	0.8	mg/L	BOD Surface
LA-47	30-Aug-00	0.9	mg/L	BOD Surface
LA-47	15-Feb-01	0.9	mg/L	BOD Surface
LA-47	19-Nov-03	0.9	mg/L	BOD Surface
LA-47	4-Dec-03	0.9	mg/L	BOD Surface
LA-47	16-Jun-04	0.9	mg/L	BOD Surface
LA-47	12-May-05	0.9	mg/l	BOD Surface
LA-47	15-Nov-06	0.9	mg/l	BOD Surface
LA-47	27-Mar-01	1	mg/L	BOD Surface
LA-47	13-Nov-02	1	mg/L	BOD Surface
LA-47	27-Apr-05	1	mg/l	BOD Surface

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LA-47	13-Apr-06	1	mg/l	BOD Surface
LA-47	5-Nov-01	1.1	mg/L	BOD Surface
LA-47	10-Mar-02	1.1	mg/L	BOD Surface
LA-47	29-Aug-02	1.1	mg/L	BOD Surface
LA-47	14-May-03	1.1	mg/L	BOD Surface
LA-47	9-Jun-05	1.1	mg/l	BOD Surface
LA-47	15-Jun-06	1.2	mg/l	BOD Surface
LA-47	25-Feb-00	1.3	mg/L	BOD Surface
LA-47	13-Jul-00	1.3	mg/L	BOD Surface
LA-47	16-Jan-03	1.3	mg/L	BOD Surface
LA-47	11-May-06	1.3	mg/l	BOD Surface
LA-47	15-Sep-05	1.4	mg/l	BOD Surface
LA-47	5-Dec-00	1.5	mg/L	BOD Surface
LA-47	20-Jun-02	1.5	mg/L	BOD Surface
LA-47	15-Sep-04	1.5	mg/l	BOD Surface
LA-47	17-Aug-06	1.5	mg/l	BOD Surface
LA-47	6-Jul-01	1.6	mg/L	BOD Surface
LA-47	18-Aug-04	1.6	mg/l	BOD Surface
LA-47	13-Oct-05	1.7	mg/l	BOD Surface
LA-47	15-Nov-07	1.80	mg/l	BOD Surface
LA-47	12-Jun-08	1.80	mg/l	BOD Surface
LA-47	19-Dec-07	1.90	mg/l	BOD Surface
LA-47	15-May-08	1.90	mg/l	BOD Surface
LA-47	12-May-04	2.1	mg/L	BOD Surface
LA-47	20-Jul-06	2.1	mg/l	BOD Surface
LA-47	7-Jul-05	2.2	mg/l	BOD Surface
LA-47	10-Jul-03	2.4	mg/L	BOD Surface
LA-47	21-Jul-04	2.4	mg/l	BOD Surface
LA-47	11-Aug-05	2.4	mg/l	BOD Surface
LA-47	10-Sep-03	2.5	mg/L	BOD Surface
LA-47	16-Jun-00	3.2	mg/L	BOD Surface
LA-30	10-Jan-00	5.5	mg/L	DO Bottom
LA-30	23-Aug-01	5.5	mg/L	DO Bottom
LA-30	13-Nov-02	5.5	mg/L	DO Bottom
LA-30	4-Sep-03	5.5	mg/L	DO Bottom
LA-30	9-Oct-03	5.5	mg/L	DO Bottom
LA-30	19-Dec-02	5.6	mg/L	DO Bottom

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LA-30	13-Oct-05	5.6	mg/l	DO Bottom
LA-30	19-Jun-03	5.7	mg/L	DO Bottom
LA-30	14-May-03	5.8	mg/L	DO Bottom
LA-30	13-Sep-01	5.9	mg/L	DO Bottom
LA-30	16-Nov-05	5.9	mg/l	DO Bottom
LA-30	14-Feb-08	5.90	mg/l	DO Bottom
LA-30	11-Jan-01	6	mg/L	DO Bottom
LA-30	9-Dec-02	6	mg/L	DO Bottom
LA-30	19-Nov-03	6	mg/L	DO Bottom
LA-30	17-Apr-08	6.00	mg/l	DO Bottom
LA-30	24-Oct-07	6.10	mg/l	DO Bottom
LA-30	5-Dec-00	6.1	mg/L	DO Bottom
LA-30	13-Apr-06	6.1	mg/l	DO Bottom
LA-30	18-Jul-01	6.2	mg/L	DO Bottom
LA-30	10-Mar-02	6.3	mg/L	DO Bottom
LA-30	15-May-08	6.30	mg/l	DO Bottom
LA-30	13-Dec-01	6.4	mg/L	DO Bottom
LA-30	8-Dec-05	6.4	mg/l	DO Bottom
LA-30	11-May-06	6.4	mg/l	DO Bottom
LA-30	15-Jun-06	6.4	mg/l	DO Bottom
LA-30	15-Mar-07	6.40	mg/l	DO Bottom
LA-30	30-Aug-00	6.5	mg/L	DO Bottom
LA-30	25-Jan-01	6.5	mg/L	DO Bottom
LA-30	10-Dec-01	6.5	mg/L	DO Bottom
LA-30	16-Jan-03	6.5	mg/L	DO Bottom
LA-30	16-Jun-04	6.5	mg/L	DO Bottom
LA-30	13-Oct-04	6.5	mg/l	DO Bottom
LA-30	12-Jan-06	6.5	mg/l	DO Bottom
LA-30	20-Mar-08	6.50	mg/l	DO Bottom
LA-30	16-May-07	6.60	mg/l	DO Bottom
LA-30	17-Jan-02	6.6	mg/L	DO Bottom
LA-30	19-Feb-03	6.6	mg/L	DO Bottom
LA-30	22-Dec-04	6.6	mg/l	DO Bottom
LA-30	15-Nov-06	6.6	mg/l	DO Bottom
LA-30	17-Jan-08	6.70	mg/l	DO Bottom
LA-30	21-Feb-02	6.7	mg/L	DO Bottom
LA-30	16-May-02	6.7	mg/L	DO Bottom

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LA-30	13-Mar-03	6.7	mg/L	DO Bottom
LA-30	7-Aug-03	6.7	mg/L	DO Bottom
LA-30	10-Nov-04	6.7	mg/l	DO Bottom
LA-30	10-Mar-05	6.7	mg/l	DO Bottom
LA-30	25-Feb-00	6.8	mg/L	DO Bottom
LA-30	3-Oct-00	6.8	mg/L	DO Bottom
LA-30	29-Nov-00	6.8	mg/L	DO Bottom
LA-30	19-Apr-01	6.8	mg/L	DO Bottom
LA-30	21-Jan-04	6.8	mg/L	DO Bottom
LA-30	12-Apr-07	6.80	mg/l	DO Bottom
LA-30	17-Mar-04	6.9	mg/L	DO Bottom
LA-30	15-Sep-04	6.9	mg/l	DO Bottom
LA-30	20-Jan-05	6.9	mg/l	DO Bottom
LA-30	12-May-05	6.9	mg/l	DO Bottom
LA-30	15-Sep-05	6.9	mg/l	DO Bottom
LA-30	21-Sep-06	6.9	mg/l	DO Bottom
LA-30	13-Jul-00	7	mg/L	DO Bottom
LA-30	15-Sep-00	7	mg/L	DO Bottom
LA-30	29-Aug-02	7	mg/L	DO Bottom
LA-30	18-Aug-04	7	mg/l	DO Bottom
LA-30	27-Apr-05	7	mg/l	DO Bottom
LA-30	16-Feb-06	7	mg/l	DO Bottom
LA-30	25-Jan-07	7.00	mg/l	DO Bottom
LA-30	25-Jan-07	7	mg/l	DO Bottom
LA-30	7-Feb-07	7.00	mg/l	DO Bottom
LA-30	9-Aug-07	7.00	mg/l	DO Bottom
LA-30	15-Nov-07	7.00	mg/l	DO Bottom
LA-30	19-Dec-07	7.00	mg/l	DO Bottom
LA-30	18-Jul-07	7.10	mg/l	DO Bottom
LA-30	13-Apr-00	7.1	mg/L	DO Bottom
LA-30	1-May-00	7.1	mg/L	DO Bottom
LA-30	15-Feb-01	7.1	mg/L	DO Bottom
LA-30	14-Mar-02	7.1	mg/L	DO Bottom
LA-30	25-Feb-04	7.1	mg/L	DO Bottom
LA-30	31-Jul-02	7.2	mg/L	DO Bottom
LA-30	14-Apr-04	7.2	mg/L	DO Bottom
LA-30	10-Feb-05	7.2	mg/l	DO Bottom

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LA-30	9-Jun-05	7.2 mg/l	DO Bottom					
LA-30	17-Aug-06	7.2 mg/l	DO Bottom					
LA-30	27-Mar-01	7.3 mg/L	DO Bottom					
LA-30	6-Jul-01	7.3 mg/L	DO Bottom					
LA-30	10-Sep-03	7.3 mg/L	DO Bottom					
LA-30	4-Dec-03	7.3 mg/L	DO Bottom					
LA-30	12-May-04	7.3 mg/L	DO Bottom					
LA-30	11-Aug-05	7.3 mg/l	DO Bottom					
LA-30	20-Jun-02	7.4 mg/L	DO Bottom					
LA-30	21-Jul-04	7.4 mg/l	DO Bottom					
LA-30	10-Jul-03	7.5 mg/L	DO Bottom					
LA-30	20-Jul-06	7.5 mg/l	DO Bottom					
LA-30	4-Oct-02	7.6 mg/L	DO Bottom					
LA-30	7-Jul-05	7.6 mg/l	DO Bottom					
LA-30	16-Jun-00	7.7 mg/L	DO Bottom					
LA-30	21-Dec-00	7.7 mg/L	DO Bottom					
LA-30	5-Nov-01	7.9 mg/L	DO Bottom					
LA-30	12-Jun-08	8.20 mg/l	DO Bottom	7.3	8.2	7.51875	16	2007-2008
LA-32B	7-Aug-03	4.3 mg/L	DO Bottom					
LA-32B	10-Jan-00	4.8 mg/L	DO Bottom					
LA-32B	19-Jun-03	5.6 mg/L	DO Bottom					
LA-32B	11-Jan-01	5.7 mg/L	DO Bottom					
LA-32B	13-Nov-02	5.7 mg/L	DO Bottom					
LA-32B	9-Oct-03	5.7 mg/L	DO Bottom					
LA-32B	19-Nov-03	5.7 mg/L	DO Bottom					
LA-32B	12-May-05	5.7 mg/l	DO Bottom					
LA-32B	13-Oct-04	5.8 mg/l	DO Bottom					
LA-32B	17-Apr-08	5.80 mg/l	DO Bottom					
LA-32B	9-Dec-02	5.9 mg/L	DO Bottom					
LA-32B	16-Nov-05	5.9 mg/l	DO Bottom					
LA-32B	13-Apr-06	6 mg/l	DO Bottom					
LA-32B	20-Mar-08	6.00 mg/l	DO Bottom					
LA-32B	15-May-08	6.00 mg/l	DO Bottom					
LA-32B	10-Dec-01	6.1 mg/L	DO Bottom					
LA-32B	10-Sep-03	6.1 mg/L	DO Bottom					
LA-32B	4-Dec-03	6.1 mg/L	DO Bottom					
LA-32B	8-Dec-05	6.1 mg/l	DO Bottom					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	15-Jun-06	6.1	mg/l	DO Bottom
LA-32B	30-Aug-00	6.2	mg/L	DO Bottom
LA-32B	23-Aug-01	6.2	mg/L	DO Bottom
LA-32B	13-Oct-05	6.2	mg/l	DO Bottom
LA-32B	5-Dec-00	6.3	mg/L	DO Bottom
LA-32B	25-Jan-01	6.3	mg/L	DO Bottom
LA-32B	13-Sep-01	6.3	mg/L	DO Bottom
LA-32B	21-Jan-04	6.3	mg/L	DO Bottom
LA-32B	15-Mar-07	6.30	mg/l	DO Bottom
LA-32B	14-Feb-08	6.30	mg/l	DO Bottom
LA-32B	18-Feb-04	6.4	mg/L	DO Bottom
LA-32B	21-Sep-06	6.4	mg/l	DO Bottom
LA-32B	19-Feb-03	6.5	mg/L	DO Bottom
LA-32B	12-Apr-07	6.60	mg/l	DO Bottom
LA-32B	15-Nov-07	6.60	mg/l	DO Bottom
LA-32B	17-Jan-08	6.60	mg/l	DO Bottom
LA-32B	25-Feb-00	6.6	mg/L	DO Bottom
LA-32B	29-Nov-00	6.6	mg/L	DO Bottom
LA-32B	17-Jan-02	6.6	mg/L	DO Bottom
LA-32B	21-Feb-02	6.6	mg/L	DO Bottom
LA-32B	12-Jan-06	6.6	mg/l	DO Bottom
LA-32B	3-Oct-00	6.7	mg/L	DO Bottom
LA-32B	27-Mar-01	6.7	mg/L	DO Bottom
LA-32B	10-Mar-02	6.7	mg/L	DO Bottom
LA-32B	13-Mar-03	6.7	mg/L	DO Bottom
LA-32B	17-Mar-04	6.7	mg/L	DO Bottom
LA-32B	16-Jun-04	6.7	mg/L	DO Bottom
LA-32B	20-Jan-05	6.7	mg/l	DO Bottom
LA-32B	18-Jul-01	6.8	mg/L	DO Bottom
LA-32B	13-Dec-01	6.8	mg/L	DO Bottom
LA-32B	10-Jul-03	6.8	mg/L	DO Bottom
LA-32B	14-Apr-04	6.8	mg/L	DO Bottom
LA-32B	15-Sep-04	6.8	mg/l	DO Bottom
LA-32B	22-Dec-04	6.8	mg/l	DO Bottom
LA-32B	9-Jun-05	6.8	mg/l	DO Bottom
LA-32B	15-Nov-06	6.8	mg/l	DO Bottom
LA-32B	24-Oct-07	6.80	mg/l	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	19-Dec-07	6.80	mg/l	DO Bottom					
LA-32B	15-Sep-00	6.9	mg/L	DO Bottom					
LA-32B	15-Feb-01	6.9	mg/L	DO Bottom					
LA-32B	10-Nov-04	6.9	mg/l	DO Bottom					
LA-32B	11-May-06	6.9	mg/l	DO Bottom					
LA-32B	17-Aug-06	6.9	mg/l	DO Bottom					
LA-32B	16-May-07	6.90	mg/l	DO Bottom					
LA-32B	5-Nov-01	7	mg/L	DO Bottom					
LA-32B	16-May-02	7	mg/L	DO Bottom					
LA-32B	12-May-04	7	mg/L	DO Bottom					
LA-32B	11-Aug-05	7	mg/l	DO Bottom					
LA-32B	16-Feb-06	7	mg/l	DO Bottom					
LA-32B	25-Jan-07	7.00	mg/l	DO Bottom					
LA-32B	25-Jan-07	7	mg/l	DO Bottom					
LA-32B	18-Jul-07	7.00	mg/l	DO Bottom					
LA-32B	9-Aug-07	7.10	mg/l	DO Bottom					
LA-32B	10-Feb-05	7.1	mg/l	DO Bottom					
LA-32B	10-Mar-05	7.1	mg/l	DO Bottom					
LA-32B	7-Feb-07	7.20	mg/l	DO Bottom					
LA-32B	1-May-00	7.2	mg/L	DO Bottom					
LA-32B	13-Jul-00	7.2	mg/L	DO Bottom					
LA-32B	29-Aug-02	7.2	mg/L	DO Bottom					
LA-32B	18-Aug-04	7.2	mg/l	DO Bottom					
LA-32B	21-Jul-04	7.3	mg/l	DO Bottom					
LA-32B	13-Apr-00	7.4	mg/L	DO Bottom					
LA-32B	20-Jul-06	7.4	mg/l	DO Bottom					
LA-32B	21-Dec-00	7.5	mg/L	DO Bottom					
LA-32B	27-Apr-05	7.5	mg/l	DO Bottom					
LA-32B	6-Jul-01	7.6	mg/L	DO Bottom					
LA-32B	20-Jun-02	7.6	mg/L	DO Bottom					
LA-32B	19-Apr-01	7.7	mg/L	DO Bottom					
LA-32B	4-Oct-02	7.8	mg/L	DO Bottom					
LA-32B	15-Sep-05	7.9	mg/l	DO Bottom					
LA-32B	16-Jun-00	8	mg/L	DO Bottom					
LA-32B	7-Jul-05	8	mg/l	DO Bottom					
LA-32B	12-Jun-08	8.70	mg/l	DO Bottom	7.2	8.7	7.625	16	2007-2008
LA-33	19-Jun-03	5.4	mg/L	DO Bottom					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	4-Sep-03	5.5	mg/L	DO Bottom
LA-33	9-Oct-03	5.5	mg/L	DO Bottom
LA-33	23-Aug-01	5.8	mg/L	DO Bottom
LA-33	13-Nov-02	5.8	mg/L	DO Bottom
LA-33	19-Nov-03	5.8	mg/L	DO Bottom
LA-33	16-Nov-05	5.8	mg/l	DO Bottom
LA-33	24-Oct-07	5.80	mg/l	DO Bottom
LA-33	9-Dec-02	5.9	mg/L	DO Bottom
LA-33	13-Oct-05	5.9	mg/l	DO Bottom
LA-33	14-May-03	6	mg/L	DO Bottom
LA-33	20-Mar-08	6.00	mg/l	DO Bottom
LA-33	17-Apr-08	6.00	mg/l	DO Bottom
LA-33	14-Feb-08	6.10	mg/l	DO Bottom
LA-33	4-Dec-03	6.1	mg/L	DO Bottom
LA-33	13-Oct-04	6.1	mg/l	DO Bottom
LA-33	13-Apr-06	6.1	mg/l	DO Bottom
LA-33	18-Jul-07	6.20	mg/l	DO Bottom
LA-33	15-May-08	6.20	mg/l	DO Bottom
LA-33	13-Sep-01	6.2	mg/L	DO Bottom
LA-33	12-Jan-06	6.2	mg/l	DO Bottom
LA-33	30-Aug-00	6.3	mg/L	DO Bottom
LA-33	11-Jan-01	6.3	mg/L	DO Bottom
LA-33	19-Apr-01	6.3	mg/L	DO Bottom
LA-33	10-Dec-01	6.3	mg/L	DO Bottom
LA-33	17-Jan-02	6.3	mg/L	DO Bottom
LA-33	8-Dec-05	6.3	mg/l	DO Bottom
LA-33	10-Jan-00	6.4	mg/L	DO Bottom
LA-33	13-Jul-00	6.4	mg/L	DO Bottom
LA-33	5-Dec-00	6.4	mg/L	DO Bottom
LA-33	18-Jul-01	6.4	mg/L	DO Bottom
LA-33	19-Dec-02	6.4	mg/L	DO Bottom
LA-33	12-May-05	6.4	mg/l	DO Bottom
LA-33	11-May-06	6.4	mg/l	DO Bottom
LA-33	15-Jun-06	6.4	mg/l	DO Bottom
LA-33	21-Jan-04	6.5	mg/L	DO Bottom
LA-33	15-Nov-06	6.5	mg/l	DO Bottom
LA-33	12-Apr-07	6.60	mg/l	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	13-Dec-01	6.6	mg/L	DO Bottom
LA-33	7-Aug-03	6.6	mg/L	DO Bottom
LA-33	18-Feb-04	6.6	mg/L	DO Bottom
LA-33	16-Jun-04	6.6	mg/L	DO Bottom
LA-33	15-Sep-05	6.6	mg/l	DO Bottom
LA-33	5-Nov-01	6.7	mg/L	DO Bottom
LA-33	10-Mar-02	6.7	mg/L	DO Bottom
LA-33	16-Jan-03	6.7	mg/L	DO Bottom
LA-33	19-Feb-03	6.7	mg/L	DO Bottom
LA-33	10-Sep-03	6.7	mg/L	DO Bottom
LA-33	22-Dec-04	6.7	mg/l	DO Bottom
LA-33	15-Sep-00	6.8	mg/L	DO Bottom
LA-33	29-Nov-00	6.8	mg/L	DO Bottom
LA-33	21-Feb-02	6.8	mg/L	DO Bottom
LA-33	12-May-04	6.8	mg/L	DO Bottom
LA-33	10-Nov-04	6.8	mg/l	DO Bottom
LA-33	20-Jan-05	6.8	mg/l	DO Bottom
LA-33	9-Jun-05	6.8	mg/l	DO Bottom
LA-33	21-Sep-06	6.8	mg/l	DO Bottom
LA-33	15-Nov-07	6.80	mg/l	DO Bottom
LA-33	17-Jan-08	6.80	mg/l	DO Bottom
LA-33	25-Feb-00	6.9	mg/L	DO Bottom
LA-33	15-Feb-01	6.9	mg/L	DO Bottom
LA-33	27-Mar-01	6.9	mg/L	DO Bottom
LA-33	14-Mar-02	6.9	mg/L	DO Bottom
LA-33	15-Sep-04	6.9	mg/l	DO Bottom
LA-33	16-Feb-06	6.9	mg/l	DO Bottom
LA-33	15-Mar-07	6.90	mg/l	DO Bottom
LA-33	16-May-07	6.90	mg/l	DO Bottom
LA-33	13-Apr-00	7	mg/L	DO Bottom
LA-33	3-Oct-00	7	mg/L	DO Bottom
LA-33	17-Mar-04	7	mg/L	DO Bottom
LA-33	9-Aug-07	7.00	mg/l	DO Bottom
LA-33	19-Dec-07	7.00	mg/l	DO Bottom
LA-33	25-Jan-07	7.10	mg/l	DO Bottom
LA-33	7-Feb-07	7.10	mg/l	DO Bottom
LA-33	31-Jul-02	7.1	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	13-Mar-03	7.1 mg/L	DO Bottom
LA-33	14-Apr-04	7.1 mg/L	DO Bottom
LA-33	27-Apr-05	7.1 mg/l	DO Bottom
LA-33	20-Jul-06	7.1 mg/l	DO Bottom
LA-33	25-Jan-07	7.1 mg/l	DO Bottom
LA-33	25-Jan-01	7.2 mg/L	DO Bottom
LA-33	6-Jul-01	7.2 mg/L	DO Bottom
LA-33	16-May-02	7.2 mg/L	DO Bottom
LA-33	21-Jul-04	7.2 mg/l	DO Bottom
LA-33	18-Aug-04	7.2 mg/l	DO Bottom
LA-33	10-Feb-05	7.2 mg/l	DO Bottom
LA-33	21-Dec-00	7.3 mg/L	DO Bottom
LA-33	29-Aug-02	7.3 mg/L	DO Bottom
LA-33	4-Oct-02	7.3 mg/L	DO Bottom
LA-33	7-Jul-05	7.3 mg/l	DO Bottom
LA-33	1-May-00	7.4 mg/L	DO Bottom
LA-33	17-Aug-06	7.4 mg/l	DO Bottom
LA-33	11-Aug-05	7.5 mg/l	DO Bottom
LA-33	10-Mar-05	7.6 mg/l	DO Bottom
LA-33	10-Jul-03	7.7 mg/L	DO Bottom
LA-33	20-Jun-02	7.8 mg/L	DO Bottom
LA-33	16-Jun-00	8.2 mg/L	DO Bottom
LA-33	12-Jun-08	8.40 mg/l	DO Bottom
LA-35	10-Jan-00	4.9 mg/L	DO Bottom
LA-35	16-Jun-00	5.1 mg/L	DO Bottom
LA-35	19-Nov-03	5.1 mg/L	DO Bottom
LA-35	15-Sep-00	5.3 mg/L	DO Bottom
LA-35	6-Jul-01	5.3 mg/L	DO Bottom
LA-35	27-Mar-01	5.5 mg/L	DO Bottom
LA-35	19-Jun-03	5.5 mg/L	DO Bottom
LA-35	4-Sep-03	5.5 mg/L	DO Bottom
LA-35	27-Apr-05	5.5 mg/l	DO Bottom
LA-35	14-May-03	5.6 mg/L	DO Bottom
LA-35	9-Oct-03	5.6 mg/L	DO Bottom
LA-35	23-Aug-01	5.7 mg/L	DO Bottom
LA-35	13-Jul-00	5.8 mg/L	DO Bottom
LA-35	19-Dec-02	5.9 mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	4-Dec-03	5.9	mg/L	DO Bottom
LA-35	16-Nov-05	5.9	mg/l	DO Bottom
LA-35	13-Apr-06	5.9	mg/l	DO Bottom
LA-35	14-Feb-08	5.90	mg/l	DO Bottom
LA-35	17-Apr-08	6.00	mg/l	DO Bottom
LA-35	15-May-08	6.00	mg/l	DO Bottom
LA-35	13-Sep-01	6.1	mg/L	DO Bottom
LA-35	15-Sep-05	6.1	mg/l	DO Bottom
LA-35	13-Oct-05	6.1	mg/l	DO Bottom
LA-35	21-Jan-04	6.2	mg/L	DO Bottom
LA-35	5-Dec-00	6.3	mg/L	DO Bottom
LA-35	19-Apr-01	6.3	mg/L	DO Bottom
LA-35	10-Dec-01	6.3	mg/L	DO Bottom
LA-35	9-Dec-02	6.3	mg/L	DO Bottom
LA-35	19-Feb-03	6.3	mg/L	DO Bottom
LA-35	12-May-05	6.3	mg/l	DO Bottom
LA-35	8-Dec-05	6.3	mg/l	DO Bottom
LA-35	12-Jan-06	6.3	mg/l	DO Bottom
LA-35	11-May-06	6.3	mg/l	DO Bottom
LA-35	18-Jul-01	6.4	mg/L	DO Bottom
LA-35	17-Jan-02	6.4	mg/L	DO Bottom
LA-35	16-Jan-03	6.4	mg/L	DO Bottom
LA-35	13-Oct-04	6.4	mg/l	DO Bottom
LA-35	3-Oct-00	6.5	mg/L	DO Bottom
LA-35	12-Apr-07	6.50	mg/l	DO Bottom
LA-35	24-Oct-07	6.60	mg/l	DO Bottom
LA-35	25-Feb-00	6.6	mg/L	DO Bottom
LA-35	30-Aug-00	6.6	mg/L	DO Bottom
LA-35	13-Dec-01	6.6	mg/L	DO Bottom
LA-35	12-May-04	6.6	mg/L	DO Bottom
LA-35	15-Jun-06	6.6	mg/l	DO Bottom
LA-35	15-Mar-07	6.70	mg/l	DO Bottom
LA-35	15-Nov-07	6.70	mg/l	DO Bottom
LA-35	29-Nov-00	6.7	mg/L	DO Bottom
LA-35	21-Feb-02	6.7	mg/L	DO Bottom
LA-35	13-Mar-03	6.7	mg/L	DO Bottom
LA-35	17-Mar-04	6.7	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	10-Nov-04	6.7	mg/l	DO Bottom
LA-35	20-Jan-05	6.7	mg/l	DO Bottom
LA-35	15-Nov-06	6.7	mg/l	DO Bottom
LA-35	11-Jan-01	6.8	mg/L	DO Bottom
LA-35	10-Mar-02	6.8	mg/L	DO Bottom
LA-35	7-Aug-03	6.8	mg/L	DO Bottom
LA-35	16-Jun-04	6.8	mg/L	DO Bottom
LA-35	15-Sep-04	6.8	mg/l	DO Bottom
LA-35	22-Dec-04	6.8	mg/l	DO Bottom
LA-35	18-Jul-07	6.80	mg/l	DO Bottom
LA-35	17-Jan-08	6.80	mg/l	DO Bottom
LA-35	20-Mar-08	6.80	mg/l	DO Bottom
LA-35	14-Mar-02	6.9	mg/L	DO Bottom
LA-35	10-Sep-03	6.9	mg/L	DO Bottom
LA-35	13-Apr-00	7	mg/L	DO Bottom
LA-35	25-Jan-01	7	mg/L	DO Bottom
LA-35	15-Feb-01	7	mg/L	DO Bottom
LA-35	5-Nov-01	7	mg/L	DO Bottom
LA-35	16-May-02	7	mg/L	DO Bottom
LA-35	18-Feb-04	7	mg/L	DO Bottom
LA-35	21-Jul-04	7	mg/l	DO Bottom
LA-35	10-Feb-05	7	mg/l	DO Bottom
LA-35	16-Feb-06	7	mg/l	DO Bottom
LA-35	21-Sep-06	7	mg/l	DO Bottom
LA-35	25-Jan-07	7.00	mg/l	DO Bottom
LA-35	25-Jan-07	7	mg/l	DO Bottom
LA-35	19-Dec-07	7.00	mg/l	DO Bottom
LA-35	31-Jul-02	7.1	mg/L	DO Bottom
LA-35	29-Aug-02	7.1	mg/L	DO Bottom
LA-35	9-Aug-07	7.20	mg/l	DO Bottom
LA-35	10-Jul-03	7.2	mg/L	DO Bottom
LA-35	18-Aug-04	7.2	mg/l	DO Bottom
LA-35	14-Apr-04	7.3	mg/L	DO Bottom
LA-35	20-Jul-06	7.3	mg/l	DO Bottom
LA-35	17-Aug-06	7.3	mg/l	DO Bottom
LA-35	7-Feb-07	7.30	mg/l	DO Bottom
LA-35	20-Jun-02	7.4	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	4-Oct-02	7.4	mg/L	DO Bottom
LA-35	9-Jun-05	7.4	mg/l	DO Bottom
LA-35	10-Mar-05	7.5	mg/l	DO Bottom
LA-35	7-Jul-05	7.5	mg/l	DO Bottom
LA-35	11-Aug-05	7.5	mg/l	DO Bottom
LA-35	1-May-00	7.6	mg/L	DO Bottom
LA-35	21-Dec-00	7.6	mg/L	DO Bottom
LA-35	12-Jun-08	8.20	mg/l	DO Bottom
LA-35	16-May-07	8.70	mg/l	DO Bottom
LA-39	13-Oct-04	3.8	mg/l	DO Bottom
LA-39	4-Sep-03	5.5	mg/L	DO Bottom
LA-39	17-Apr-08	5.60	mg/l	DO Bottom
LA-39	9-Oct-03	5.6	mg/L	DO Bottom
LA-39	4-Dec-03	5.6	mg/L	DO Bottom
LA-39	19-Dec-02	5.7	mg/L	DO Bottom
LA-39	13-Oct-05	5.7	mg/l	DO Bottom
LA-39	23-Aug-01	5.8	mg/L	DO Bottom
LA-39	19-Nov-03	5.8	mg/L	DO Bottom
LA-39	12-Jan-06	5.8	mg/l	DO Bottom
LA-39	19-Jun-03	5.9	mg/L	DO Bottom
LA-39	13-Apr-06	5.9	mg/l	DO Bottom
LA-39	10-Jan-00	6	mg/L	DO Bottom
LA-39	18-Jul-01	6	mg/L	DO Bottom
LA-39	13-Nov-02	6	mg/L	DO Bottom
LA-39	20-Jul-06	6	mg/l	DO Bottom
LA-39	15-May-08	6.10	mg/l	DO Bottom
LA-39	14-May-03	6.1	mg/L	DO Bottom
LA-39	11-Jan-01	6.2	mg/L	DO Bottom
LA-39	13-Sep-01	6.2	mg/L	DO Bottom
LA-39	10-Mar-05	6.2	mg/l	DO Bottom
LA-39	16-Nov-05	6.2	mg/l	DO Bottom
LA-39	8-Dec-05	6.3	mg/l	DO Bottom
LA-39	17-Jan-02	6.4	mg/L	DO Bottom
LA-39	15-Jun-06	6.4	mg/l	DO Bottom
LA-39	15-Nov-06	6.4	mg/l	DO Bottom
LA-39	15-Mar-07	6.40	mg/l	DO Bottom
LA-39	12-Apr-07	6.40	mg/l	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	30-Aug-00	6.5	mg/L	DO Bottom
LA-39	16-Feb-06	6.5	mg/l	DO Bottom
LA-39	13-Dec-01	6.6	mg/L	DO Bottom
LA-39	9-Dec-02	6.6	mg/L	DO Bottom
LA-39	17-Mar-04	6.6	mg/L	DO Bottom
LA-39	25-Jan-07	6.70	mg/l	DO Bottom
LA-39	24-Oct-07	6.70	mg/l	DO Bottom
LA-39	15-Nov-07	6.70	mg/l	DO Bottom
LA-39	14-Feb-08	6.70	mg/l	DO Bottom
LA-39	20-Mar-08	6.70	mg/l	DO Bottom
LA-39	29-Nov-00	6.7	mg/L	DO Bottom
LA-39	5-Dec-00	6.7	mg/L	DO Bottom
LA-39	10-Dec-01	6.7	mg/L	DO Bottom
LA-39	21-Feb-02	6.7	mg/L	DO Bottom
LA-39	18-Feb-04	6.7	mg/L	DO Bottom
LA-39	16-Jun-04	6.7	mg/L	DO Bottom
LA-39	12-May-05	6.7	mg/l	DO Bottom
LA-39	15-Sep-05	6.7	mg/l	DO Bottom
LA-39	11-May-06	6.7	mg/l	DO Bottom
LA-39	21-Sep-06	6.7	mg/l	DO Bottom
LA-39	25-Jan-07	6.7	mg/l	DO Bottom
LA-39	25-Feb-00	6.8	mg/L	DO Bottom
LA-39	13-Jul-00	6.8	mg/L	DO Bottom
LA-39	3-Oct-00	6.8	mg/L	DO Bottom
LA-39	25-Jan-01	6.8	mg/L	DO Bottom
LA-39	6-Jul-01	6.8	mg/L	DO Bottom
LA-39	19-Feb-03	6.8	mg/L	DO Bottom
LA-39	13-Mar-03	6.8	mg/L	DO Bottom
LA-39	10-Nov-04	6.8	mg/l	DO Bottom
LA-39	22-Dec-04	6.8	mg/l	DO Bottom
LA-39	15-Sep-00	6.9	mg/L	DO Bottom
LA-39	19-Apr-01	6.9	mg/L	DO Bottom
LA-39	14-Mar-02	6.9	mg/L	DO Bottom
LA-39	31-Jul-02	6.9	mg/L	DO Bottom
LA-39	21-Jan-04	6.9	mg/L	DO Bottom
LA-39	14-Apr-04	6.9	mg/L	DO Bottom
LA-39	15-Sep-04	6.9	mg/l	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	20-Jan-05	6.9	mg/l	DO Bottom
LA-39	9-Jun-05	6.9	mg/l	DO Bottom
LA-39	19-Dec-07	6.90	mg/l	DO Bottom
LA-39	17-Jan-08	6.90	mg/l	DO Bottom
LA-39	10-Mar-02	7	mg/L	DO Bottom
LA-39	12-May-04	7	mg/L	DO Bottom
LA-39	18-Jul-07	7.00	mg/l	DO Bottom
LA-39	9-Aug-07	7.00	mg/l	DO Bottom
LA-39	7-Feb-07	7.10	mg/l	DO Bottom
LA-39	16-May-02	7.1	mg/L	DO Bottom
LA-39	29-Aug-02	7.1	mg/L	DO Bottom
LA-39	11-Aug-05	7.1	mg/l	DO Bottom
LA-39	17-Aug-06	7.1	mg/l	DO Bottom
LA-39	13-Apr-00	7.2	mg/L	DO Bottom
LA-39	21-Dec-00	7.2	mg/L	DO Bottom
LA-39	15-Feb-01	7.2	mg/L	DO Bottom
LA-39	20-Jun-02	7.2	mg/L	DO Bottom
LA-39	10-Jul-03	7.2	mg/L	DO Bottom
LA-39	7-Aug-03	7.2	mg/L	DO Bottom
LA-39	10-Sep-03	7.2	mg/L	DO Bottom
LA-39	10-Feb-05	7.2	mg/l	DO Bottom
LA-39	7-Jul-05	7.2	mg/l	DO Bottom
LA-39	1-May-00	7.3	mg/L	DO Bottom
LA-39	18-Aug-04	7.3	mg/l	DO Bottom
LA-39	16-May-07	7.40	mg/l	DO Bottom
LA-39	27-Mar-01	7.5	mg/L	DO Bottom
LA-39	5-Nov-01	7.5	mg/L	DO Bottom
LA-39	16-Jan-03	7.5	mg/L	DO Bottom
LA-39	21-Jul-04	7.6	mg/l	DO Bottom
LA-39	27-Apr-05	7.6	mg/l	DO Bottom
LA-39	4-Oct-02	7.7	mg/L	DO Bottom
LA-39	16-Jun-00	8.2	mg/L	DO Bottom
LA-39	12-Jun-08	8.30	mg/l	DO Bottom
LA-41	16-Jan-03	4	mg/L	DO Bottom
LA-41	9-Oct-03	5	mg/L	DO Bottom
LA-41	17-Jan-08	5.30	mg/l	DO Bottom
LA-41	19-Nov-03	5.5	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	16-May-07	5.50	mg/l	DO Bottom
LA-41	19-Jun-03	5.6	mg/L	DO Bottom
LA-41	20-Mar-08	5.70	mg/l	DO Bottom
LA-41	16-Nov-05	5.7	mg/l	DO Bottom
LA-41	23-Aug-01	5.8	mg/L	DO Bottom
LA-41	13-Nov-02	5.8	mg/L	DO Bottom
LA-41	14-May-03	5.8	mg/L	DO Bottom
LA-41	13-Apr-06	5.8	mg/l	DO Bottom
LA-41	13-Sep-01	5.9	mg/L	DO Bottom
LA-41	4-Sep-03	5.9	mg/L	DO Bottom
LA-41	4-Dec-03	5.9	mg/L	DO Bottom
LA-41	15-Nov-07	5.90	mg/l	DO Bottom
LA-41	18-Jul-01	6	mg/L	DO Bottom
LA-41	14-Mar-02	6	mg/L	DO Bottom
LA-41	19-Dec-02	6	mg/L	DO Bottom
LA-41	13-Oct-05	6	mg/l	DO Bottom
LA-41	14-Feb-08	6.00	mg/l	DO Bottom
LA-41	10-Jan-00	6.1	mg/L	DO Bottom
LA-41	21-Jan-04	6.1	mg/L	DO Bottom
LA-41	13-Oct-04	6.1	mg/l	DO Bottom
LA-41	17-Apr-08	6.20	mg/l	DO Bottom
LA-41	15-May-08	6.20	mg/l	DO Bottom
LA-41	25-Feb-00	6.2	mg/L	DO Bottom
LA-41	30-Aug-00	6.2	mg/L	DO Bottom
LA-41	5-Dec-00	6.2	mg/L	DO Bottom
LA-41	11-Jan-01	6.2	mg/L	DO Bottom
LA-41	19-Feb-03	6.2	mg/L	DO Bottom
LA-41	16-Jun-04	6.2	mg/L	DO Bottom
LA-41	15-Jun-06	6.2	mg/l	DO Bottom
LA-41	13-Jul-00	6.3	mg/L	DO Bottom
LA-41	19-Apr-01	6.3	mg/L	DO Bottom
LA-41	10-Dec-01	6.3	mg/L	DO Bottom
LA-41	10-Jul-03	6.3	mg/L	DO Bottom
LA-41	8-Dec-05	6.3	mg/l	DO Bottom
LA-41	12-Jan-06	6.3	mg/l	DO Bottom
LA-41	15-Mar-07	6.30	mg/l	DO Bottom
LA-41	16-May-02	6.4	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	16-Feb-06	6.4	mg/l	DO Bottom
LA-41	11-May-06	6.4	mg/l	DO Bottom
LA-41	21-Sep-06	6.4	mg/l	DO Bottom
LA-41	24-Oct-07	6.40	mg/l	DO Bottom
LA-41	27-Mar-01	6.5	mg/L	DO Bottom
LA-41	17-Jan-02	6.5	mg/L	DO Bottom
LA-41	9-Dec-02	6.5	mg/L	DO Bottom
LA-41	13-Mar-03	6.5	mg/L	DO Bottom
LA-41	10-Sep-03	6.5	mg/L	DO Bottom
LA-41	25-Feb-04	6.5	mg/L	DO Bottom
LA-41	15-Sep-04	6.5	mg/l	DO Bottom
LA-41	10-Nov-04	6.5	mg/l	DO Bottom
LA-41	20-Jan-05	6.5	mg/l	DO Bottom
LA-41	7-Feb-07	6.50	mg/l	DO Bottom
LA-41	12-Apr-07	6.50	mg/l	DO Bottom
LA-41	19-Dec-07	6.60	mg/l	DO Bottom
LA-41	3-Oct-00	6.6	mg/L	DO Bottom
LA-41	29-Nov-00	6.6	mg/L	DO Bottom
LA-41	17-Mar-04	6.6	mg/L	DO Bottom
LA-41	12-May-05	6.6	mg/l	DO Bottom
LA-41	25-Jan-07	6.70	mg/l	DO Bottom
LA-41	9-Aug-07	6.70	mg/l	DO Bottom
LA-41	21-Feb-02	6.7	mg/L	DO Bottom
LA-41	10-Mar-02	6.7	mg/L	DO Bottom
LA-41	4-Oct-02	6.7	mg/L	DO Bottom
LA-41	15-Nov-06	6.7	mg/l	DO Bottom
LA-41	25-Jan-07	6.7	mg/l	DO Bottom
LA-41	25-Jan-01	6.8	mg/L	DO Bottom
LA-41	15-Feb-01	6.8	mg/L	DO Bottom
LA-41	6-Jul-01	6.8	mg/L	DO Bottom
LA-41	13-Dec-01	6.8	mg/L	DO Bottom
LA-41	1-May-00	6.9	mg/L	DO Bottom
LA-41	29-Aug-02	6.9	mg/L	DO Bottom
LA-41	7-Aug-03	6.9	mg/L	DO Bottom
LA-41	22-Dec-04	6.9	mg/l	DO Bottom
LA-41	12-May-04	7	mg/L	DO Bottom
LA-41	10-Feb-05	7	mg/l	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	18-Jul-07	7.00	mg/l	DO Bottom
LA-41	13-Apr-00	7.1	mg/L	DO Bottom
LA-41	14-Apr-04	7.1	mg/L	DO Bottom
LA-41	11-Aug-05	7.1	mg/l	DO Bottom
LA-41	5-Nov-01	7.2	mg/L	DO Bottom
LA-41	31-Jul-02	7.2	mg/L	DO Bottom
LA-41	18-Aug-04	7.2	mg/l	DO Bottom
LA-41	15-Sep-05	7.2	mg/l	DO Bottom
LA-41	17-Aug-06	7.2	mg/l	DO Bottom
LA-41	15-Sep-00	7.3	mg/L	DO Bottom
LA-41	15-Sep-00	7.3	mg/L	DO Bottom
LA-41	20-Jun-02	7.3	mg/L	DO Bottom
LA-41	20-Jul-06	7.3	mg/l	DO Bottom
LA-41	10-Mar-05	7.5	mg/l	DO Bottom
LA-41	21-Jul-04	7.8	mg/l	DO Bottom
LA-41	7-Jul-05	7.9	mg/l	DO Bottom
LA-41	12-Jun-08	7.90	mg/l	DO Bottom
LA-41	9-Jun-05	8.1	mg/l	DO Bottom
LA-41	16-Jun-00	8.5	mg/L	DO Bottom
LA-44	20-Jul-06	3.4	mg/l	DO Bottom
LA-44	9-Oct-03	4.8	mg/L	DO Bottom
LA-44	16-Jan-03	4.9	mg/L	DO Bottom
LA-44	10-Jan-00	5.1	mg/L	DO Bottom
LA-44	13-Nov-02	5.4	mg/L	DO Bottom
LA-44	4-Sep-03	5.4	mg/L	DO Bottom
LA-44	13-Oct-04	5.4	mg/l	DO Bottom
LA-44	13-Apr-06	5.4	mg/l	DO Bottom
LA-44	23-Aug-01	5.5	mg/L	DO Bottom
LA-44	16-May-07	5.50	mg/l	DO Bottom
LA-44	19-Dec-02	5.6	mg/L	DO Bottom
LA-44	14-May-03	5.6	mg/L	DO Bottom
LA-44	19-Nov-03	5.6	mg/L	DO Bottom
LA-44	16-Nov-05	5.6	mg/l	DO Bottom
LA-44	17-Apr-08	5.70	mg/l	DO Bottom
LA-44	19-Feb-03	5.7	mg/L	DO Bottom
LA-44	13-Oct-05	5.7	mg/l	DO Bottom
LA-44	5-Dec-00	5.9	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	13-Apr-00	6	mg/L	DO Bottom
LA-44	16-May-02	6	mg/L	DO Bottom
LA-44	8-Dec-05	6	mg/l	DO Bottom
LA-44	11-Jan-01	6.1	mg/L	DO Bottom
LA-44	18-Jul-01	6.1	mg/L	DO Bottom
LA-44	4-Dec-03	6.1	mg/L	DO Bottom
LA-44	30-Aug-00	6.2	mg/L	DO Bottom
LA-44	15-Feb-01	6.2	mg/L	DO Bottom
LA-44	16-Jun-04	6.2	mg/L	DO Bottom
LA-44	15-Sep-00	6.3	mg/L	DO Bottom
LA-44	13-Sep-01	6.3	mg/L	DO Bottom
LA-44	12-Jan-06	6.3	mg/l	DO Bottom
LA-44	11-May-06	6.3	mg/l	DO Bottom
LA-44	12-Apr-07	6.30	mg/l	DO Bottom
LA-44	9-Aug-07	6.30	mg/l	DO Bottom
LA-44	14-Feb-08	6.30	mg/l	DO Bottom
LA-44	25-Feb-00	6.4	mg/L	DO Bottom
LA-44	10-Dec-01	6.4	mg/L	DO Bottom
LA-44	13-Dec-01	6.4	mg/L	DO Bottom
LA-44	10-Nov-04	6.4	mg/l	DO Bottom
LA-44	27-Apr-05	6.4	mg/l	DO Bottom
LA-44	11-Aug-05	6.4	mg/l	DO Bottom
LA-44	24-Oct-07	6.40	mg/l	DO Bottom
LA-44	16-Jun-00	6.5	mg/L	DO Bottom
LA-44	13-Mar-03	6.5	mg/L	DO Bottom
LA-44	20-Jan-05	6.5	mg/l	DO Bottom
LA-44	7-Feb-07	6.50	mg/l	DO Bottom
LA-44	15-Mar-07	6.50	mg/l	DO Bottom
LA-44	15-Nov-07	6.50	mg/l	DO Bottom
LA-44	20-Mar-08	6.50	mg/l	DO Bottom
LA-44	19-Dec-07	6.60	mg/l	DO Bottom
LA-44	15-May-08	6.60	mg/l	DO Bottom
LA-44	3-Oct-00	6.6	mg/L	DO Bottom
LA-44	29-Nov-00	6.6	mg/L	DO Bottom
LA-44	25-Jan-01	6.6	mg/L	DO Bottom
LA-44	21-Feb-02	6.6	mg/L	DO Bottom
LA-44	10-Mar-02	6.6	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	14-Mar-02	6.6	mg/L	DO Bottom
LA-44	9-Dec-02	6.6	mg/L	DO Bottom
LA-44	7-Aug-03	6.6	mg/L	DO Bottom
LA-44	15-Sep-04	6.6	mg/l	DO Bottom
LA-44	15-Jun-06	6.6	mg/l	DO Bottom
LA-44	18-Jul-07	6.70	mg/l	DO Bottom
LA-44	17-Jan-08	6.70	mg/l	DO Bottom
LA-44	17-Jan-02	6.7	mg/L	DO Bottom
LA-44	19-Jun-03	6.7	mg/L	DO Bottom
LA-44	21-Jan-04	6.7	mg/L	DO Bottom
LA-44	25-Feb-04	6.7	mg/L	DO Bottom
LA-44	22-Dec-04	6.7	mg/l	DO Bottom
LA-44	21-Sep-06	6.7	mg/l	DO Bottom
LA-44	15-Nov-06	6.7	mg/l	DO Bottom
LA-44	31-Jul-02	6.8	mg/L	DO Bottom
LA-44	10-Sep-03	6.8	mg/L	DO Bottom
LA-44	25-Jan-07	6.8	mg/l	DO Bottom
LA-44	25-Jan-07	6.80	mg/l	DO Bottom
LA-44	1-May-00	6.9	mg/L	DO Bottom
LA-44	12-May-05	6.9	mg/l	DO Bottom
LA-44	13-Jul-00	7	mg/L	DO Bottom
LA-44	20-Jun-02	7	mg/L	DO Bottom
LA-44	29-Aug-02	7	mg/L	DO Bottom
LA-44	17-Mar-04	7	mg/L	DO Bottom
LA-44	21-Jul-04	7	mg/l	DO Bottom
LA-44	10-Feb-05	7	mg/l	DO Bottom
LA-44	10-Mar-05	7	mg/l	DO Bottom
LA-44	15-Sep-05	7	mg/l	DO Bottom
LA-44	16-Feb-06	7	mg/l	DO Bottom
LA-44	4-Oct-02	7.1	mg/L	DO Bottom
LA-44	14-Apr-04	7.2	mg/L	DO Bottom
LA-44	5-Nov-01	7.3	mg/L	DO Bottom
LA-44	27-Mar-01	7.4	mg/L	DO Bottom
LA-44	19-Apr-01	7.4	mg/L	DO Bottom
LA-44	12-May-04	7.4	mg/L	DO Bottom
LA-44	6-Jul-01	7.5	mg/L	DO Bottom
LA-44	10-Jul-03	7.6	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	18-Aug-04	7.6	mg/l	DO Bottom
LA-44	9-Jun-05	7.6	mg/l	DO Bottom
LA-44	17-Aug-06	7.6	mg/l	DO Bottom
LA-44	12-Jun-08	7.70	mg/l	DO Bottom
LA-44	21-Dec-00	7.8	mg/L	DO Bottom
LA-44	7-Jul-05	7.8	mg/l	DO Bottom
LA-46	16-Jan-03	4.5	mg/L	DO Bottom
LA-46	9-Oct-03	4.5	mg/L	DO Bottom
LA-46	13-Oct-04	4.5	mg/l	DO Bottom
LA-46	23-Aug-01	5.2	mg/L	DO Bottom
LA-46	14-May-03	5.4	mg/L	DO Bottom
LA-46	15-Sep-00	5.5	mg/L	DO Bottom
LA-46	13-Sep-01	5.5	mg/L	DO Bottom
LA-46	13-Nov-02	5.5	mg/L	DO Bottom
LA-46	13-Apr-06	5.6	mg/l	DO Bottom
LA-46	13-Oct-05	5.7	mg/l	DO Bottom
LA-46	16-Nov-05	5.7	mg/l	DO Bottom
LA-46	30-Aug-00	5.8	mg/L	DO Bottom
LA-46	5-Dec-00	5.8	mg/L	DO Bottom
LA-46	16-May-02	5.8	mg/L	DO Bottom
LA-46	4-Dec-03	5.8	mg/L	DO Bottom
LA-46	15-Mar-07	5.80	mg/l	DO Bottom
LA-46	13-Dec-01	5.9	mg/L	DO Bottom
LA-46	9-Dec-02	5.9	mg/L	DO Bottom
LA-46	19-Dec-02	5.9	mg/L	DO Bottom
LA-46	19-Nov-03	5.9	mg/L	DO Bottom
LA-46	10-Mar-02	6	mg/L	DO Bottom
LA-46	4-Sep-03	6	mg/L	DO Bottom
LA-46	11-May-06	6	mg/l	DO Bottom
LA-46	16-May-07	6.00	mg/l	DO Bottom
LA-46	24-Oct-07	6.00	mg/l	DO Bottom
LA-46	11-Jan-01	6.1	mg/L	DO Bottom
LA-46	12-Apr-07	6.20	mg/l	DO Bottom
LA-46	15-Nov-07	6.20	mg/l	DO Bottom
LA-46	10-Dec-01	6.2	mg/L	DO Bottom
LA-46	14-Mar-02	6.2	mg/L	DO Bottom
LA-46	8-Dec-05	6.2	mg/l	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	17-Jan-02	6.3	mg/L	DO Bottom
LA-46	25-Feb-04	6.3	mg/L	DO Bottom
LA-46	16-Jun-04	6.3	mg/L	DO Bottom
LA-46	12-Jan-06	6.3	mg/l	DO Bottom
LA-46	17-Jan-08	6.30	mg/l	DO Bottom
LA-46	17-Apr-08	6.30	mg/l	DO Bottom
LA-46	15-Sep-04	6.4	mg/l	DO Bottom
LA-46	11-Aug-05	6.4	mg/l	DO Bottom
LA-46	15-Jun-06	6.4	mg/l	DO Bottom
LA-46	10-Jan-00	6.5	mg/L	DO Bottom
LA-46	25-Feb-00	6.5	mg/L	DO Bottom
LA-46	25-Jan-01	6.5	mg/L	DO Bottom
LA-46	15-Feb-01	6.5	mg/L	DO Bottom
LA-46	27-Mar-01	6.5	mg/L	DO Bottom
LA-46	19-Apr-01	6.5	mg/L	DO Bottom
LA-46	6-Jul-01	6.5	mg/L	DO Bottom
LA-46	18-Jul-01	6.5	mg/L	DO Bottom
LA-46	5-Nov-01	6.5	mg/L	DO Bottom
LA-46	21-Feb-02	6.5	mg/L	DO Bottom
LA-46	13-Mar-03	6.5	mg/L	DO Bottom
LA-46	10-Nov-04	6.5	mg/l	DO Bottom
LA-46	20-Jan-05	6.5	mg/l	DO Bottom
LA-46	21-Sep-06	6.5	mg/l	DO Bottom
LA-46	7-Feb-07	6.50	mg/l	DO Bottom
LA-46	9-Aug-07	6.60	mg/l	DO Bottom
LA-46	14-Feb-08	6.60	mg/l	DO Bottom
LA-46	20-Mar-08	6.60	mg/l	DO Bottom
LA-46	19-Jun-03	6.6	mg/L	DO Bottom
LA-46	17-Aug-06	6.6	mg/l	DO Bottom
LA-46	15-Nov-06	6.6	mg/l	DO Bottom
LA-46	18-Jul-07	6.70	mg/l	DO Bottom
LA-46	19-Dec-07	6.70	mg/l	DO Bottom
LA-46	15-May-08	6.70	mg/l	DO Bottom
LA-46	3-Oct-00	6.7	mg/L	DO Bottom
LA-46	19-Feb-03	6.7	mg/L	DO Bottom
LA-46	21-Jan-04	6.7	mg/L	DO Bottom
LA-46	12-May-04	6.7	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	12-May-05	6.7	mg/l	DO Bottom
LA-46	1-May-00	6.8	mg/L	DO Bottom
LA-46	13-Jul-00	6.8	mg/L	DO Bottom
LA-46	29-Nov-00	6.8	mg/L	DO Bottom
LA-46	17-Mar-04	6.8	mg/L	DO Bottom
LA-46	27-Apr-05	6.8	mg/l	DO Bottom
LA-46	22-Dec-04	6.9	mg/l	DO Bottom
LA-46	10-Feb-05	6.9	mg/l	DO Bottom
LA-46	16-Feb-06	6.9	mg/l	DO Bottom
LA-46	25-Jan-07	6.9	mg/l	DO Bottom
LA-46	25-Jan-07	6.90	mg/l	DO Bottom
LA-46	13-Apr-00	7	mg/L	DO Bottom
LA-46	7-Aug-03	7	mg/L	DO Bottom
LA-46	10-Sep-03	7	mg/L	DO Bottom
LA-46	14-Apr-04	7	mg/L	DO Bottom
LA-46	21-Jul-04	7	mg/l	DO Bottom
LA-46	29-Aug-02	7.1	mg/L	DO Bottom
LA-46	4-Oct-02	7.1	mg/L	DO Bottom
LA-46	16-Jun-00	7.2	mg/L	DO Bottom
LA-46	21-Dec-00	7.2	mg/L	DO Bottom
LA-46	18-Aug-04	7.2	mg/l	DO Bottom
LA-46	10-Mar-05	7.3	mg/l	DO Bottom
LA-46	15-Sep-05	7.3	mg/l	DO Bottom
LA-46	7-Jul-05	7.4	mg/l	DO Bottom
LA-46	10-Jul-03	7.5	mg/L	DO Bottom
LA-46	31-Jul-02	7.6	mg/L	DO Bottom
LA-46	20-Jul-06	7.7	mg/l	DO Bottom
LA-46	20-Jun-02	7.8	mg/L	DO Bottom
LA-46	9-Jun-05	7.9	mg/l	DO Bottom
LA-46	12-Jun-08	7.90	mg/l	DO Bottom
LA-47	16-Jan-03	2.1	mg/L	DO Bottom
LA-47	9-Oct-03	5	mg/L	DO Bottom
LA-47	19-Dec-02	5.1	mg/L	DO Bottom
LA-47	19-Nov-03	5.1	mg/L	DO Bottom
LA-47	14-May-03	5.4	mg/L	DO Bottom
LA-47	5-Dec-00	5.5	mg/L	DO Bottom
LA-47	4-Sep-03	5.5	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	16-Nov-05	5.5	mg/l	DO Bottom
LA-47	17-Apr-08	5.60	mg/l	DO Bottom
LA-47	23-Aug-01	5.6	mg/L	DO Bottom
LA-47	13-Sep-01	5.6	mg/L	DO Bottom
LA-47	13-Nov-02	5.7	mg/L	DO Bottom
LA-47	13-Apr-06	5.8	mg/l	DO Bottom
LA-47	19-Jun-03	5.9	mg/L	DO Bottom
LA-47	22-Dec-04	5.9	mg/l	DO Bottom
LA-47	10-Jan-00	6	mg/L	DO Bottom
LA-47	11-Jan-01	6	mg/L	DO Bottom
LA-47	18-Jul-01	6	mg/L	DO Bottom
LA-47	24-Oct-07	6.00	mg/l	DO Bottom
LA-47	14-Feb-08	6.00	mg/l	DO Bottom
LA-47	15-Sep-00	6.1	mg/L	DO Bottom
LA-47	4-Dec-03	6.1	mg/L	DO Bottom
LA-47	8-Dec-05	6.1	mg/l	DO Bottom
LA-47	12-Jan-06	6.1	mg/l	DO Bottom
LA-47	16-May-07	6.20	mg/l	DO Bottom
LA-47	3-Oct-00	6.3	mg/L	DO Bottom
LA-47	13-Dec-01	6.3	mg/L	DO Bottom
LA-47	10-Nov-04	6.3	mg/l	DO Bottom
LA-47	12-Apr-07	6.30	mg/l	DO Bottom
LA-47	17-Jan-02	6.4	mg/L	DO Bottom
LA-47	19-Feb-03	6.4	mg/L	DO Bottom
LA-47	15-Sep-04	6.4	mg/l	DO Bottom
LA-47	11-May-06	6.4	mg/l	DO Bottom
LA-47	13-Apr-00	6.5	mg/L	DO Bottom
LA-47	15-Feb-01	6.5	mg/L	DO Bottom
LA-47	21-Feb-02	6.5	mg/L	DO Bottom
LA-47	16-May-02	6.5	mg/L	DO Bottom
LA-47	13-Mar-03	6.5	mg/L	DO Bottom
LA-47	16-Feb-06	6.5	mg/l	DO Bottom
LA-47	7-Feb-07	6.50	mg/l	DO Bottom
LA-47	15-Mar-07	6.50	mg/l	DO Bottom
LA-47	19-Dec-07	6.50	mg/l	DO Bottom
LA-47	20-Mar-08	6.50	mg/l	DO Bottom
LA-47	15-May-08	6.50	mg/l	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	18-Jul-07	6.60	mg/l	DO Bottom
LA-47	25-Feb-00	6.6	mg/L	DO Bottom
LA-47	30-Aug-00	6.6	mg/L	DO Bottom
LA-47	10-Dec-01	6.6	mg/L	DO Bottom
LA-47	7-Aug-03	6.6	mg/L	DO Bottom
LA-47	13-Oct-05	6.6	mg/l	DO Bottom
LA-47	21-Sep-06	6.6	mg/l	DO Bottom
LA-47	25-Jan-07	6.70	mg/l	DO Bottom
LA-47	15-Nov-07	6.70	mg/l	DO Bottom
LA-47	25-Jan-01	6.7	mg/L	DO Bottom
LA-47	31-Jul-02	6.7	mg/L	DO Bottom
LA-47	13-Oct-04	6.7	mg/l	DO Bottom
LA-47	15-Jun-06	6.7	mg/l	DO Bottom
LA-47	25-Jan-07	6.7	mg/l	DO Bottom
LA-47	21-Dec-00	6.8	mg/L	DO Bottom
LA-47	19-Apr-01	6.8	mg/L	DO Bottom
LA-47	25-Feb-04	6.8	mg/L	DO Bottom
LA-47	17-Mar-04	6.8	mg/L	DO Bottom
LA-47	9-Aug-07	6.80	mg/l	DO Bottom
LA-47	1-May-00	6.9	mg/L	DO Bottom
LA-47	9-Dec-02	6.9	mg/L	DO Bottom
LA-47	21-Jan-04	6.9	mg/L	DO Bottom
LA-47	16-Jun-04	6.9	mg/L	DO Bottom
LA-47	20-Jan-05	6.9	mg/l	DO Bottom
LA-47	15-Nov-06	6.9	mg/l	DO Bottom
LA-47	17-Jan-08	6.90	mg/l	DO Bottom
LA-47	29-Nov-00	7	mg/L	DO Bottom
LA-47	4-Oct-02	7	mg/L	DO Bottom
LA-47	10-Jul-03	7	mg/L	DO Bottom
LA-47	10-Feb-05	7	mg/l	DO Bottom
LA-47	12-May-05	7	mg/l	DO Bottom
LA-47	13-Jul-00	7.1	mg/L	DO Bottom
LA-47	10-Mar-02	7.1	mg/L	DO Bottom
LA-47	14-Mar-02	7.1	mg/L	DO Bottom
LA-47	27-Apr-05	7.1	mg/l	DO Bottom
LA-47	5-Nov-01	7.2	mg/L	DO Bottom
LA-47	10-Sep-03	7.2	mg/L	DO Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	20-Jun-02	7.3	mg/L	DO Bottom
LA-47	29-Aug-02	7.4	mg/L	DO Bottom
LA-47	27-Mar-01	7.6	mg/L	DO Bottom
LA-47	6-Jul-01	7.6	mg/L	DO Bottom
LA-47	14-Apr-04	7.6	mg/L	DO Bottom
LA-47	17-Aug-06	7.6	mg/l	DO Bottom
LA-47	12-May-04	7.7	mg/L	DO Bottom
LA-47	15-Sep-05	7.7	mg/l	DO Bottom
LA-47	21-Jul-04	7.8	mg/l	DO Bottom
LA-47	18-Aug-04	7.8	mg/l	DO Bottom
LA-47	11-Aug-05	7.8	mg/l	DO Bottom
LA-47	12-Jun-08	7.90	mg/l	DO Bottom
LA-47	10-Mar-05	8.1	mg/l	DO Bottom
LA-47	7-Jul-05	8.2	mg/l	DO Bottom
LA-47	16-Jun-00	8.3	mg/L	DO Bottom
LA-47	9-Jun-05	8.3	mg/l	DO Bottom
LA-47	20-Jul-06	8.3	mg/l	DO Bottom
LA-30	16-Jan-03	2.5	mg/L	DO Surface
LA-30	9-Oct-03	4.3	mg/L	DO Surface
LA-30	23-Aug-01	5	mg/L	DO Surface
LA-30	19-Nov-03	5.1	mg/L	DO Surface
LA-30	11-Jan-01	5.2	mg/L	DO Surface
LA-30	14-May-03	5.2	mg/L	DO Surface
LA-30	16-Nov-05	5.2	mg/l	DO Surface
LA-30	13-Oct-05	5.3	mg/l	DO Surface
LA-30	17-Apr-08	5.30	mg/l	DO Surface
LA-30	13-Sep-01	5.4	mg/L	DO Surface
LA-30	4-Sep-03	5.4	mg/L	DO Surface
LA-30	18-Jul-01	5.5	mg/L	DO Surface
LA-30	13-Nov-02	5.5	mg/L	DO Surface
LA-30	19-Jun-03	5.5	mg/L	DO Surface
LA-30	16-Jun-00	5.6	mg/L	DO Surface
LA-30	10-Jan-00	5.7	mg/L	DO Surface
LA-30	13-Dec-01	5.7	mg/L	DO Surface
LA-30	19-Dec-02	5.7	mg/L	DO Surface
LA-30	13-Oct-04	5.7	mg/l	DO Surface
LA-30	13-Apr-06	5.7	mg/l	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	5-Dec-00	5.8	mg/L	DO Surface
LA-30	13-Mar-03	5.8	mg/L	DO Surface
LA-30	8-Dec-05	5.9	mg/l	DO Surface
LA-30	10-Dec-01	6	mg/L	DO Surface
LA-30	9-Dec-02	6	mg/L	DO Surface
LA-30	4-Dec-03	6	mg/L	DO Surface
LA-30	10-Mar-02	6.1	mg/L	DO Surface
LA-30	21-Jan-04	6.1	mg/L	DO Surface
LA-30	24-Oct-07	6.20	mg/l	DO Surface
LA-30	1-May-00	6.2	mg/L	DO Surface
LA-30	17-Jan-02	6.2	mg/L	DO Surface
LA-30	16-May-02	6.2	mg/L	DO Surface
LA-30	19-Feb-03	6.2	mg/L	DO Surface
LA-30	16-Jun-04	6.2	mg/L	DO Surface
LA-30	3-Oct-00	6.3	mg/L	DO Surface
LA-30	12-Jan-06	6.3	mg/l	DO Surface
LA-30	11-May-06	6.3	mg/l	DO Surface
LA-30	14-Feb-08	6.30	mg/l	DO Surface
LA-30	20-Mar-08	6.30	mg/l	DO Surface
LA-30	15-May-08	6.30	mg/l	DO Surface
LA-30	13-Jul-00	6.4	mg/L	DO Surface
LA-30	7-Aug-03	6.4	mg/L	DO Surface
LA-30	10-Nov-04	6.4	mg/l	DO Surface
LA-30	15-Mar-07	6.40	mg/l	DO Surface
LA-30	16-May-07	6.50	mg/l	DO Surface
LA-30	12-Apr-07	6.60	mg/l	DO Surface
LA-30	13-Apr-00	6.6	mg/L	DO Surface
LA-30	30-Aug-00	6.6	mg/L	DO Surface
LA-30	21-Feb-02	6.6	mg/L	DO Surface
LA-30	20-Jan-05	6.6	mg/l	DO Surface
LA-30	15-Jun-06	6.6	mg/l	DO Surface
LA-30	15-Nov-06	6.6	mg/l	DO Surface
LA-30	25-Jan-07	6.70	mg/l	DO Surface
LA-30	25-Jan-01	6.7	mg/L	DO Surface
LA-30	15-Sep-04	6.7	mg/l	DO Surface
LA-30	25-Jan-07	6.7	mg/l	DO Surface
LA-30	29-Nov-00	6.8	mg/L	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	15-Feb-01	6.8	mg/L	DO Surface
LA-30	6-Jul-01	6.8	mg/L	DO Surface
LA-30	14-Mar-02	6.8	mg/L	DO Surface
LA-30	29-Aug-02	6.8	mg/L	DO Surface
LA-30	25-Feb-04	6.8	mg/L	DO Surface
LA-30	17-Mar-04	6.8	mg/L	DO Surface
LA-30	22-Dec-04	6.8	mg/l	DO Surface
LA-30	12-May-05	6.8	mg/l	DO Surface
LA-30	15-Sep-05	6.8	mg/l	DO Surface
LA-30	21-Sep-06	6.8	mg/l	DO Surface
LA-30	15-Nov-07	6.80	mg/l	DO Surface
LA-30	15-Sep-00	6.9	mg/L	DO Surface
LA-30	21-Dec-00	6.9	mg/L	DO Surface
LA-30	19-Apr-01	6.9	mg/L	DO Surface
LA-30	18-Aug-04	6.9	mg/l	DO Surface
LA-30	10-Feb-05	6.9	mg/l	DO Surface
LA-30	7-Feb-07	6.90	mg/l	DO Surface
LA-30	19-Dec-07	6.90	mg/l	DO Surface
LA-30	16-Feb-06	7	mg/l	DO Surface
LA-30	18-Jul-07	7.10	mg/l	DO Surface
LA-30	9-Aug-07	7.10	mg/l	DO Surface
LA-30	17-Jan-08	7.10	mg/l	DO Surface
LA-30	25-Feb-00	7.1	mg/L	DO Surface
LA-30	31-Jul-02	7.1	mg/L	DO Surface
LA-30	14-Apr-04	7.1	mg/L	DO Surface
LA-30	4-Oct-02	7.2	mg/L	DO Surface
LA-30	12-May-04	7.2	mg/L	DO Surface
LA-30	20-Jun-02	7.3	mg/L	DO Surface
LA-30	10-Jul-03	7.3	mg/L	DO Surface
LA-30	10-Mar-05	7.3	mg/l	DO Surface
LA-30	5-Nov-01	7.4	mg/L	DO Surface
LA-30	21-Jul-04	7.4	mg/l	DO Surface
LA-30	7-Jul-05	7.4	mg/l	DO Surface
LA-30	11-Aug-05	7.4	mg/l	DO Surface
LA-30	20-Jul-06	7.4	mg/l	DO Surface
LA-30	9-Jun-05	7.5	mg/l	DO Surface
LA-30	17-Aug-06	7.5	mg/l	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	27-Mar-01	7.6	mg/L	DO Surface					
LA-30	27-Apr-05	7.6	mg/l	DO Surface					
LA-30	10-Sep-03	8	mg/L	DO Surface					
LA-30	12-Jun-08	8.30	mg/l	DO Surface	7.2	8.3	7.4875	16	2007-2008
LA-32B	13-Oct-04	4.3	mg/l	DO Surface					
LA-32B	7-Aug-03	4.5	mg/L	DO Surface					
LA-32B	16-Nov-05	4.7	mg/l	DO Surface					
LA-32B	19-Nov-03	4.8	mg/L	DO Surface					
LA-32B	12-May-05	4.8	mg/l	DO Surface					
LA-32B	8-Dec-05	5.1	mg/l	DO Surface					
LA-32B	11-Jan-01	5.2	mg/L	DO Surface					
LA-32B	9-Dec-02	5.2	mg/L	DO Surface					
LA-32B	9-Oct-03	5.3	mg/L	DO Surface					
LA-32B	19-Jun-03	5.5	mg/L	DO Surface					
LA-32B	17-Apr-08	5.50	mg/l	DO Surface					
LA-32B	15-May-08	5.60	mg/l	DO Surface					
LA-32B	10-Mar-05	5.6	mg/l	DO Surface					
LA-32B	13-Sep-01	5.7	mg/L	DO Surface					
LA-32B	13-Nov-02	5.8	mg/L	DO Surface					
LA-32B	13-Apr-06	5.8	mg/l	DO Surface					
LA-32B	15-Jun-06	5.9	mg/l	DO Surface					
LA-32B	17-Jan-02	6	mg/L	DO Surface					
LA-32B	21-Feb-02	6	mg/L	DO Surface					
LA-32B	4-Dec-03	6	mg/L	DO Surface					
LA-32B	21-Jan-04	6	mg/L	DO Surface					
LA-32B	15-Nov-07	6.10	mg/l	DO Surface					
LA-32B	20-Jan-05	6.1	mg/l	DO Surface					
LA-32B	12-Jan-06	6.1	mg/l	DO Surface					
LA-32B	20-Jul-06	6.1	mg/l	DO Surface					
LA-32B	14-Feb-08	6.20	mg/l	DO Surface					
LA-32B	23-Aug-01	6.2	mg/L	DO Surface					
LA-32B	13-Dec-01	6.2	mg/L	DO Surface					
LA-32B	13-Oct-05	6.2	mg/l	DO Surface					
LA-32B	29-Nov-00	6.3	mg/L	DO Surface					
LA-32B	10-Sep-03	6.3	mg/L	DO Surface					
LA-32B	15-Mar-07	6.30	mg/l	DO Surface					
LA-32B	24-Oct-07	6.30	mg/l	DO Surface					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	25-Feb-00	6.4	mg/L	DO Surface
LA-32B	30-Aug-00	6.4	mg/L	DO Surface
LA-32B	10-Dec-01	6.4	mg/L	DO Surface
LA-32B	21-Sep-06	6.4	mg/l	DO Surface
LA-32B	5-Dec-00	6.5	mg/L	DO Surface
LA-32B	6-Jul-01	6.5	mg/L	DO Surface
LA-32B	10-Mar-02	6.5	mg/L	DO Surface
LA-32B	13-Mar-03	6.5	mg/L	DO Surface
LA-32B	22-Dec-04	6.5	mg/l	DO Surface
LA-32B	27-Apr-05	6.5	mg/l	DO Surface
LA-32B	11-Aug-05	6.5	mg/l	DO Surface
LA-32B	15-Nov-06	6.5	mg/l	DO Surface
LA-32B	12-Apr-07	6.60	mg/l	DO Surface
LA-32B	17-Jan-08	6.60	mg/l	DO Surface
LA-32B	3-Oct-00	6.6	mg/L	DO Surface
LA-32B	19-Feb-03	6.6	mg/L	DO Surface
LA-32B	10-Jul-03	6.6	mg/L	DO Surface
LA-32B	14-Apr-04	6.6	mg/L	DO Surface
LA-32B	10-Nov-04	6.6	mg/l	DO Surface
LA-32B	9-Jun-05	6.6	mg/l	DO Surface
LA-32B	11-May-06	6.6	mg/l	DO Surface
LA-32B	25-Jan-07	6.70	mg/l	DO Surface
LA-32B	16-May-07	6.70	mg/l	DO Surface
LA-32B	19-Dec-07	6.70	mg/l	DO Surface
LA-32B	10-Jan-00	6.7	mg/L	DO Surface
LA-32B	16-Jun-04	6.7	mg/L	DO Surface
LA-32B	15-Sep-04	6.7	mg/l	DO Surface
LA-32B	16-Feb-06	6.7	mg/l	DO Surface
LA-32B	25-Jan-07	6.7	mg/l	DO Surface
LA-32B	18-Feb-04	6.8	mg/L	DO Surface
LA-32B	7-Feb-07	6.80	mg/l	DO Surface
LA-32B	15-Sep-00	6.9	mg/L	DO Surface
LA-32B	29-Aug-02	6.9	mg/L	DO Surface
LA-32B	17-Mar-04	6.9	mg/L	DO Surface
LA-32B	10-Feb-05	6.9	mg/l	DO Surface
LA-32B	13-Apr-00	7	mg/L	DO Surface
LA-32B	1-May-00	7	mg/L	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	25-Jan-01	7	mg/L	DO Surface					
LA-32B	15-Feb-01	7	mg/L	DO Surface					
LA-32B	16-May-02	7	mg/L	DO Surface					
LA-32B	18-Jul-07	7.10	mg/l	DO Surface					
LA-32B	27-Mar-01	7.1	mg/L	DO Surface					
LA-32B	18-Jul-01	7.1	mg/L	DO Surface					
LA-32B	21-Jul-04	7.1	mg/l	DO Surface					
LA-32B	9-Aug-07	7.20	mg/l	DO Surface					
LA-32B	20-Mar-08	7.20	mg/l	DO Surface					
LA-32B	5-Nov-01	7.2	mg/L	DO Surface					
LA-32B	12-May-04	7.3	mg/L	DO Surface					
LA-32B	13-Jul-00	7.4	mg/L	DO Surface					
LA-32B	21-Dec-00	7.4	mg/L	DO Surface					
LA-32B	18-Aug-04	7.4	mg/l	DO Surface					
LA-32B	4-Oct-02	7.5	mg/L	DO Surface					
LA-32B	16-Jun-00	7.7	mg/L	DO Surface					
LA-32B	19-Apr-01	7.7	mg/L	DO Surface					
LA-32B	12-Jun-08	7.80	mg/l	DO Surface	7	7.8	7.325	16	2007-2008
LA-32B	17-Aug-06	7.9	mg/l	DO Surface					
LA-32B	15-Sep-05	8.4	mg/l	DO Surface					
LA-32B	7-Jul-05	8.7	mg/l	DO Surface					
LA-32B	20-Jun-02	9.1	mg/L	DO Surface					
LA-33	16-Jun-00	4.5	mg/L	DO Surface					
LA-33	9-Oct-03	4.9	mg/L	DO Surface					
LA-33	19-Nov-03	5.3	mg/L	DO Surface					
LA-33	14-May-03	5.5	mg/L	DO Surface					
LA-33	13-Oct-05	5.5	mg/l	DO Surface					
LA-33	13-Sep-01	5.6	mg/L	DO Surface					
LA-33	13-Nov-02	5.6	mg/L	DO Surface					
LA-33	19-Dec-02	5.6	mg/L	DO Surface					
LA-33	16-Jan-03	5.6	mg/L	DO Surface					
LA-33	19-Jun-03	5.6	mg/L	DO Surface					
LA-33	16-Nov-05	5.6	mg/l	DO Surface					
LA-33	13-Apr-06	5.6	mg/l	DO Surface					
LA-33	17-Apr-08	5.70	mg/l	DO Surface					
LA-33	4-Sep-03	5.7	mg/L	DO Surface					
LA-33	23-Aug-01	5.8	mg/L	DO Surface					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	4-Dec-03	5.8	mg/L	DO Surface
LA-33	11-Jan-01	5.9	mg/L	DO Surface
LA-33	17-Jan-02	5.9	mg/L	DO Surface
LA-33	15-May-08	5.90	mg/l	DO Surface
LA-33	10-Sep-03	6	mg/L	DO Surface
LA-33	8-Dec-05	6	mg/l	DO Surface
LA-33	18-Jul-01	6.1	mg/L	DO Surface
LA-33	13-Oct-04	6.1	mg/l	DO Surface
LA-33	12-May-05	6.1	mg/l	DO Surface
LA-33	12-Apr-07	6.20	mg/l	DO Surface
LA-33	10-Dec-01	6.2	mg/L	DO Surface
LA-33	13-Dec-01	6.2	mg/L	DO Surface
LA-33	12-Jan-06	6.2	mg/l	DO Surface
LA-33	19-Apr-01	6.3	mg/L	DO Surface
LA-33	5-Dec-00	6.4	mg/L	DO Surface
LA-33	21-Feb-02	6.4	mg/L	DO Surface
LA-33	14-Mar-02	6.4	mg/L	DO Surface
LA-33	9-Dec-02	6.4	mg/L	DO Surface
LA-33	19-Feb-03	6.4	mg/L	DO Surface
LA-33	15-Sep-05	6.4	mg/l	DO Surface
LA-33	10-Jan-00	6.5	mg/L	DO Surface
LA-33	13-Apr-00	6.5	mg/L	DO Surface
LA-33	3-Oct-00	6.5	mg/L	DO Surface
LA-33	7-Aug-03	6.5	mg/L	DO Surface
LA-33	18-Feb-04	6.5	mg/L	DO Surface
LA-33	10-Nov-04	6.5	mg/l	DO Surface
LA-33	20-Jan-05	6.5	mg/l	DO Surface
LA-33	27-Apr-05	6.5	mg/l	DO Surface
LA-33	11-May-06	6.5	mg/l	DO Surface
LA-33	15-Jun-06	6.5	mg/l	DO Surface
LA-33	15-Nov-06	6.5	mg/l	DO Surface
LA-33	24-Oct-07	6.50	mg/l	DO Surface
LA-33	15-Nov-07	6.60	mg/l	DO Surface
LA-33	14-Feb-08	6.60	mg/l	DO Surface
LA-33	25-Feb-00	6.6	mg/L	DO Surface
LA-33	27-Mar-01	6.6	mg/L	DO Surface
LA-33	20-Mar-08	6.70	mg/l	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	30-Aug-00	6.7	mg/L	DO Surface
LA-33	29-Nov-00	6.7	mg/L	DO Surface
LA-33	10-Mar-02	6.7	mg/L	DO Surface
LA-33	21-Jan-04	6.7	mg/L	DO Surface
LA-33	16-Jun-04	6.7	mg/L	DO Surface
LA-33	9-Jun-05	6.7	mg/l	DO Surface
LA-33	25-Jan-01	6.8	mg/L	DO Surface
LA-33	16-May-02	6.8	mg/L	DO Surface
LA-33	13-Mar-03	6.8	mg/L	DO Surface
LA-33	12-May-04	6.8	mg/L	DO Surface
LA-33	15-Sep-04	6.8	mg/l	DO Surface
LA-33	21-Sep-06	6.8	mg/l	DO Surface
LA-33	25-Jan-07	6.8	mg/l	DO Surface
LA-33	25-Jan-07	6.80	mg/l	DO Surface
LA-33	15-Mar-07	6.80	mg/l	DO Surface
LA-33	16-May-07	6.80	mg/l	DO Surface
LA-33	18-Jul-07	6.80	mg/l	DO Surface
LA-33	17-Jan-08	6.80	mg/l	DO Surface
LA-33	31-Jul-02	6.9	mg/L	DO Surface
LA-33	10-Feb-05	6.9	mg/l	DO Surface
LA-33	7-Feb-07	6.90	mg/l	DO Surface
LA-33	15-Feb-01	7	mg/L	DO Surface
LA-33	17-Mar-04	7	mg/L	DO Surface
LA-33	22-Dec-04	7	mg/l	DO Surface
LA-33	16-Feb-06	7	mg/l	DO Surface
LA-33	9-Aug-07	7.00	mg/l	DO Surface
LA-33	19-Dec-07	7.00	mg/l	DO Surface
LA-33	1-May-00	7.1	mg/L	DO Surface
LA-33	13-Jul-00	7.1	mg/L	DO Surface
LA-33	21-Dec-00	7.1	mg/L	DO Surface
LA-33	29-Aug-02	7.1	mg/L	DO Surface
LA-33	10-Jul-03	7.1	mg/L	DO Surface
LA-33	18-Aug-04	7.1	mg/l	DO Surface
LA-33	15-Sep-00	7.2	mg/L	DO Surface
LA-33	5-Nov-01	7.2	mg/L	DO Surface
LA-33	7-Jul-05	7.2	mg/l	DO Surface
LA-33	4-Oct-02	7.3	mg/L	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	21-Jul-04	7.3	mg/l	DO Surface
LA-33	20-Jul-06	7.3	mg/l	DO Surface
LA-33	6-Jul-01	7.4	mg/L	DO Surface
LA-33	14-Apr-04	7.5	mg/L	DO Surface
LA-33	17-Aug-06	7.5	mg/l	DO Surface
LA-33	20-Jun-02	7.6	mg/L	DO Surface
LA-33	11-Aug-05	7.6	mg/l	DO Surface
LA-33	10-Mar-05	8.2	mg/l	DO Surface
LA-33	12-Jun-08	9.00	mg/l	DO Surface
LA-35	13-Sep-01	5	mg/L	DO Surface
LA-35	10-Jan-00	5.2	mg/L	DO Surface
LA-35	19-Nov-03	5.2	mg/L	DO Surface
LA-35	10-Dec-01	5.3	mg/L	DO Surface
LA-35	9-Oct-03	5.4	mg/L	DO Surface
LA-35	16-Nov-05	5.4	mg/l	DO Surface
LA-35	19-Jun-03	5.5	mg/L	DO Surface
LA-35	24-Oct-07	5.50	mg/l	DO Surface
LA-35	19-Dec-02	5.6	mg/L	DO Surface
LA-35	13-Oct-05	5.6	mg/l	DO Surface
LA-35	4-Sep-03	5.7	mg/L	DO Surface
LA-35	4-Dec-03	5.7	mg/L	DO Surface
LA-35	23-Aug-01	5.8	mg/L	DO Surface
LA-35	19-Feb-03	5.8	mg/L	DO Surface
LA-35	21-Jan-04	5.8	mg/L	DO Surface
LA-35	12-May-05	5.8	mg/l	DO Surface
LA-35	13-Apr-06	5.8	mg/l	DO Surface
LA-35	3-Oct-00	5.9	mg/L	DO Surface
LA-35	9-Dec-02	5.9	mg/L	DO Surface
LA-35	16-Jan-03	5.9	mg/L	DO Surface
LA-35	15-Sep-05	5.9	mg/l	DO Surface
LA-35	8-Dec-05	5.9	mg/l	DO Surface
LA-35	15-Mar-07	5.90	mg/l	DO Surface
LA-35	14-May-03	6	mg/L	DO Surface
LA-35	15-May-08	6.00	mg/l	DO Surface
LA-35	25-Feb-00	6.1	mg/L	DO Surface
LA-35	13-Dec-01	6.1	mg/L	DO Surface
LA-35	12-Jan-06	6.1	mg/l	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	17-Apr-08	6.20	mg/l	DO Surface
LA-35	11-Jan-01	6.2	mg/L	DO Surface
LA-35	11-May-06	6.2	mg/l	DO Surface
LA-35	13-Oct-04	6.3	mg/l	DO Surface
LA-35	13-Jul-00	6.4	mg/L	DO Surface
LA-35	30-Aug-00	6.4	mg/L	DO Surface
LA-35	5-Dec-00	6.4	mg/L	DO Surface
LA-35	19-Apr-01	6.4	mg/L	DO Surface
LA-35	10-Mar-02	6.4	mg/L	DO Surface
LA-35	13-Mar-03	6.4	mg/L	DO Surface
LA-35	20-Jan-05	6.4	mg/l	DO Surface
LA-35	20-Mar-08	6.40	mg/l	DO Surface
LA-35	29-Nov-00	6.5	mg/L	DO Surface
LA-35	14-Mar-02	6.5	mg/L	DO Surface
LA-35	12-Apr-07	6.50	mg/l	DO Surface
LA-35	15-Nov-07	6.50	mg/l	DO Surface
LA-35	14-Feb-08	6.50	mg/l	DO Surface
LA-35	17-Jan-08	6.60	mg/l	DO Surface
LA-35	18-Jul-01	6.6	mg/L	DO Surface
LA-35	17-Jan-02	6.6	mg/L	DO Surface
LA-35	21-Feb-02	6.6	mg/L	DO Surface
LA-35	15-Sep-04	6.6	mg/l	DO Surface
LA-35	10-Nov-04	6.6	mg/l	DO Surface
LA-35	22-Dec-04	6.6	mg/l	DO Surface
LA-35	15-Jun-06	6.6	mg/l	DO Surface
LA-35	25-Jan-07	6.70	mg/l	DO Surface
LA-35	13-Apr-00	6.7	mg/L	DO Surface
LA-35	15-Feb-01	6.7	mg/L	DO Surface
LA-35	31-Jul-02	6.7	mg/L	DO Surface
LA-35	7-Aug-03	6.7	mg/L	DO Surface
LA-35	18-Feb-04	6.7	mg/L	DO Surface
LA-35	20-Jul-06	6.7	mg/l	DO Surface
LA-35	15-Nov-06	6.7	mg/l	DO Surface
LA-35	25-Jan-07	6.7	mg/l	DO Surface
LA-35	15-Sep-00	6.8	mg/L	DO Surface
LA-35	25-Jan-01	6.8	mg/L	DO Surface
LA-35	27-Mar-01	6.8	mg/L	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	6-Jul-01	6.8	mg/L	DO Surface
LA-35	5-Nov-01	6.8	mg/L	DO Surface
LA-35	17-Mar-04	6.8	mg/L	DO Surface
LA-35	12-May-04	6.8	mg/L	DO Surface
LA-35	10-Feb-05	6.8	mg/l	DO Surface
LA-35	19-Dec-07	6.80	mg/l	DO Surface
LA-35	16-May-02	6.9	mg/L	DO Surface
LA-35	29-Aug-02	6.9	mg/L	DO Surface
LA-35	16-Jun-04	6.9	mg/L	DO Surface
LA-35	16-Feb-06	6.9	mg/l	DO Surface
LA-35	21-Sep-06	6.9	mg/l	DO Surface
LA-35	1-May-00	7	mg/L	DO Surface
LA-35	10-Sep-03	7	mg/L	DO Surface
LA-35	21-Jul-04	7	mg/l	DO Surface
LA-35	7-Feb-07	7.10	mg/l	DO Surface
LA-35	18-Jul-07	7.10	mg/l	DO Surface
LA-35	9-Aug-07	7.10	mg/l	DO Surface
LA-35	21-Dec-00	7.1	mg/L	DO Surface
LA-35	27-Apr-05	7.1	mg/l	DO Surface
LA-35	4-Oct-02	7.2	mg/L	DO Surface
LA-35	10-Jul-03	7.2	mg/L	DO Surface
LA-35	18-Aug-04	7.2	mg/l	DO Surface
LA-35	20-Jun-02	7.3	mg/L	DO Surface
LA-35	14-Apr-04	7.6	mg/L	DO Surface
LA-35	10-Mar-05	7.7	mg/l	DO Surface
LA-35	9-Jun-05	7.7	mg/l	DO Surface
LA-35	11-Aug-05	7.7	mg/l	DO Surface
LA-35	16-Jun-00	7.8	mg/L	DO Surface
LA-35	7-Jul-05	7.8	mg/l	DO Surface
LA-35	17-Aug-06	8.1	mg/l	DO Surface
LA-35	12-Jun-08	8.40	mg/l	DO Surface
LA-35	16-May-07	8.60	mg/l	DO Surface
LA-39	13-Oct-04	4	mg/l	DO Surface
LA-39	19-Nov-03	4.9	mg/L	DO Surface
LA-39	10-Mar-02	5	mg/L	DO Surface
LA-39	17-Apr-08	5.20	mg/l	DO Surface
LA-39	13-Sep-01	5.3	mg/L	DO Surface

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LA-39	9-Oct-03	5.4	mg/L	DO Surface
LA-39	11-Jan-01	5.5	mg/L	DO Surface
LA-39	13-Oct-05	5.5	mg/l	DO Surface
LA-39	14-May-03	5.6	mg/L	DO Surface
LA-39	4-Sep-03	5.6	mg/L	DO Surface
LA-39	13-Apr-06	5.6	mg/l	DO Surface
LA-39	13-Nov-02	5.7	mg/L	DO Surface
LA-39	18-Jul-01	5.8	mg/L	DO Surface
LA-39	17-Jan-02	5.8	mg/L	DO Surface
LA-39	8-Dec-05	5.8	mg/l	DO Surface
LA-39	19-Dec-02	5.9	mg/L	DO Surface
LA-39	4-Dec-03	5.9	mg/L	DO Surface
LA-39	12-Jan-06	6	mg/l	DO Surface
LA-39	24-Oct-07	6.10	mg/l	DO Surface
LA-39	15-May-08	6.10	mg/l	DO Surface
LA-39	19-Feb-03	6.1	mg/L	DO Surface
LA-39	19-Jun-03	6.1	mg/L	DO Surface
LA-39	16-Nov-05	6.1	mg/l	DO Surface
LA-39	15-Mar-07	6.20	mg/l	DO Surface
LA-39	12-Apr-07	6.20	mg/l	DO Surface
LA-39	13-Dec-01	6.2	mg/L	DO Surface
LA-39	30-Aug-00	6.3	mg/L	DO Surface
LA-39	15-Sep-00	6.3	mg/L	DO Surface
LA-39	15-Nov-06	6.3	mg/l	DO Surface
LA-39	10-Jan-00	6.4	mg/L	DO Surface
LA-39	25-Feb-00	6.4	mg/L	DO Surface
LA-39	23-Aug-01	6.4	mg/L	DO Surface
LA-39	9-Dec-02	6.4	mg/L	DO Surface
LA-39	10-Jul-03	6.4	mg/L	DO Surface
LA-39	12-May-05	6.4	mg/l	DO Surface
LA-39	25-Jan-01	6.5	mg/L	DO Surface
LA-39	29-Aug-02	6.5	mg/L	DO Surface
LA-39	13-Mar-03	6.5	mg/L	DO Surface
LA-39	10-Nov-04	6.5	mg/l	DO Surface
LA-39	22-Dec-04	6.5	mg/l	DO Surface
LA-39	20-Jan-05	6.5	mg/l	DO Surface
LA-39	16-Feb-06	6.5	mg/l	DO Surface

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LA-39	15-Jun-06	6.5	mg/l	DO Surface
LA-39	15-Nov-07	6.60	mg/l	DO Surface
LA-39	14-Feb-08	6.60	mg/l	DO Surface
LA-39	13-Jul-00	6.6	mg/L	DO Surface
LA-39	10-Dec-01	6.6	mg/L	DO Surface
LA-39	14-Mar-02	6.6	mg/L	DO Surface
LA-39	12-May-04	6.6	mg/L	DO Surface
LA-39	15-Sep-05	6.6	mg/l	DO Surface
LA-39	21-Sep-06	6.6	mg/l	DO Surface
LA-39	1-May-00	6.7	mg/L	DO Surface
LA-39	21-Feb-02	6.7	mg/L	DO Surface
LA-39	21-Jan-04	6.7	mg/L	DO Surface
LA-39	18-Feb-04	6.7	mg/L	DO Surface
LA-39	16-Jun-04	6.7	mg/L	DO Surface
LA-39	15-Sep-04	6.7	mg/l	DO Surface
LA-39	3-Oct-00	6.8	mg/L	DO Surface
LA-39	31-Jul-02	6.8	mg/L	DO Surface
LA-39	11-May-06	6.8	mg/l	DO Surface
LA-39	17-Jan-08	6.80	mg/l	DO Surface
LA-39	20-Mar-08	6.80	mg/l	DO Surface
LA-39	5-Dec-00	6.9	mg/L	DO Surface
LA-39	14-Apr-04	6.9	mg/L	DO Surface
LA-39	9-Jun-05	6.9	mg/l	DO Surface
LA-39	17-Aug-06	6.9	mg/l	DO Surface
LA-39	25-Jan-07	6.9	mg/l	DO Surface
LA-39	25-Jan-07	6.90	mg/l	DO Surface
LA-39	7-Feb-07	6.90	mg/l	DO Surface
LA-39	19-Dec-07	6.90	mg/l	DO Surface
LA-39	13-Apr-00	7	mg/L	DO Surface
LA-39	21-Dec-00	7	mg/L	DO Surface
LA-39	15-Feb-01	7	mg/L	DO Surface
LA-39	16-Jan-03	7	mg/L	DO Surface
LA-39	18-Jul-07	7.10	mg/l	DO Surface
LA-39	29-Nov-00	7.1	mg/L	DO Surface
LA-39	16-May-02	7.1	mg/L	DO Surface
LA-39	17-Mar-04	7.1	mg/L	DO Surface
LA-39	10-Feb-05	7.1	mg/l	DO Surface

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LA-39	7-Jul-05	7.1	mg/l	DO Surface
LA-39	11-Aug-05	7.1	mg/l	DO Surface
LA-39	6-Jul-01	7.2	mg/L	DO Surface
LA-39	20-Jun-02	7.2	mg/L	DO Surface
LA-39	18-Aug-04	7.2	mg/l	DO Surface
LA-39	10-Sep-03	7.3	mg/L	DO Surface
LA-39	27-Apr-05	7.3	mg/l	DO Surface
LA-39	4-Oct-02	7.4	mg/L	DO Surface
LA-39	21-Jul-04	7.4	mg/l	DO Surface
LA-39	10-Mar-05	7.4	mg/l	DO Surface
LA-39	20-Jul-06	7.4	mg/l	DO Surface
LA-39	9-Aug-07	7.40	mg/l	DO Surface
LA-39	27-Mar-01	7.5	mg/L	DO Surface
LA-39	7-Aug-03	7.5	mg/L	DO Surface
LA-39	16-May-07	7.50	mg/l	DO Surface
LA-39	19-Apr-01	7.6	mg/L	DO Surface
LA-39	5-Nov-01	7.7	mg/L	DO Surface
LA-39	16-Jun-00	8	mg/L	DO Surface
LA-39	12-Jun-08	8.70	mg/l	DO Surface
LA-41	9-Oct-03	4.3	mg/L	DO Surface
LA-41	18-Jul-01	4.8	mg/L	DO Surface
LA-41	13-Sep-01	5	mg/L	DO Surface
LA-41	16-Nov-05	5.1	mg/l	DO Surface
LA-41	16-May-07	5.20	mg/l	DO Surface
LA-41	23-Aug-01	5.2	mg/L	DO Surface
LA-41	19-Nov-03	5.4	mg/L	DO Surface
LA-41	13-Apr-06	5.4	mg/l	DO Surface
LA-41	10-Mar-02	5.5	mg/L	DO Surface
LA-41	13-Nov-02	5.5	mg/L	DO Surface
LA-41	4-Dec-03	5.5	mg/L	DO Surface
LA-41	19-Dec-02	5.6	mg/L	DO Surface
LA-41	15-May-08	5.70	mg/l	DO Surface
LA-41	11-Jan-01	5.7	mg/L	DO Surface
LA-41	16-Jan-03	5.7	mg/L	DO Surface
LA-41	19-Feb-03	5.7	mg/L	DO Surface
LA-41	13-Oct-05	5.7	mg/l	DO Surface
LA-41	15-Sep-00	5.8	mg/L	DO Surface

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LA-41	15-Sep-00	5.8	mg/L	DO Surface
LA-41	16-May-02	5.8	mg/L	DO Surface
LA-41	14-May-03	5.8	mg/L	DO Surface
LA-41	17-Apr-08	5.80	mg/l	DO Surface
LA-41	5-Dec-00	5.9	mg/L	DO Surface
LA-41	8-Dec-05	5.9	mg/l	DO Surface
LA-41	10-Jan-00	6	mg/L	DO Surface
LA-41	10-Dec-01	6	mg/L	DO Surface
LA-41	21-Feb-02	6	mg/L	DO Surface
LA-41	14-Mar-02	6	mg/L	DO Surface
LA-41	12-Jan-06	6	mg/l	DO Surface
LA-41	15-Jun-06	6	mg/l	DO Surface
LA-41	17-Jan-08	6.00	mg/l	DO Surface
LA-41	17-Jan-02	6.1	mg/L	DO Surface
LA-41	20-Jan-05	6.1	mg/l	DO Surface
LA-41	30-Aug-00	6.2	mg/L	DO Surface
LA-41	13-Dec-01	6.2	mg/L	DO Surface
LA-41	10-Nov-04	6.2	mg/l	DO Surface
LA-41	29-Nov-00	6.3	mg/L	DO Surface
LA-41	6-Jul-01	6.3	mg/L	DO Surface
LA-41	9-Dec-02	6.3	mg/L	DO Surface
LA-41	16-Feb-06	6.3	mg/l	DO Surface
LA-41	11-May-06	6.3	mg/l	DO Surface
LA-41	12-Apr-07	6.30	mg/l	DO Surface
LA-41	15-Nov-07	6.30	mg/l	DO Surface
LA-41	19-Jun-03	6.4	mg/L	DO Surface
LA-41	10-Jul-03	6.4	mg/L	DO Surface
LA-41	25-Feb-04	6.4	mg/L	DO Surface
LA-41	20-Mar-08	6.40	mg/l	DO Surface
LA-41	25-Jan-01	6.5	mg/L	DO Surface
LA-41	4-Sep-03	6.5	mg/L	DO Surface
LA-41	15-Sep-04	6.5	mg/l	DO Surface
LA-41	15-Mar-07	6.50	mg/l	DO Surface
LA-41	18-Jul-07	6.50	mg/l	DO Surface
LA-41	19-Dec-07	6.60	mg/l	DO Surface
LA-41	3-Oct-00	6.6	mg/L	DO Surface
LA-41	13-Mar-03	6.6	mg/L	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	16-Jun-04	6.6	mg/L	DO Surface
LA-41	13-Oct-04	6.6	mg/l	DO Surface
LA-41	22-Dec-04	6.6	mg/l	DO Surface
LA-41	12-May-05	6.6	mg/l	DO Surface
LA-41	21-Sep-06	6.6	mg/l	DO Surface
LA-41	15-Nov-06	6.6	mg/l	DO Surface
LA-41	7-Feb-07	6.70	mg/l	DO Surface
LA-41	9-Aug-07	6.70	mg/l	DO Surface
LA-41	7-Aug-03	6.7	mg/L	DO Surface
LA-41	25-Feb-00	6.8	mg/L	DO Surface
LA-41	1-May-00	6.8	mg/L	DO Surface
LA-41	13-Jul-00	6.8	mg/L	DO Surface
LA-41	15-Feb-01	6.8	mg/L	DO Surface
LA-41	21-Jan-04	6.8	mg/L	DO Surface
LA-41	25-Jan-07	6.8	mg/l	DO Surface
LA-41	25-Jan-07	6.80	mg/l	DO Surface
LA-41	10-Feb-05	6.9	mg/l	DO Surface
LA-41	15-Sep-05	6.9	mg/l	DO Surface
LA-41	14-Feb-08	6.90	mg/l	DO Surface
LA-41	5-Nov-01	7	mg/L	DO Surface
LA-41	20-Jun-02	7	mg/L	DO Surface
LA-41	31-Jul-02	7	mg/L	DO Surface
LA-41	29-Aug-02	7	mg/L	DO Surface
LA-41	4-Oct-02	7	mg/L	DO Surface
LA-41	17-Mar-04	7	mg/L	DO Surface
LA-41	14-Apr-04	7	mg/L	DO Surface
LA-41	13-Apr-00	7.2	mg/L	DO Surface
LA-41	27-Mar-01	7.3	mg/L	DO Surface
LA-41	11-Aug-05	7.3	mg/l	DO Surface
LA-41	17-Aug-06	7.3	mg/l	DO Surface
LA-41	18-Aug-04	7.5	mg/l	DO Surface
LA-41	10-Mar-05	7.5	mg/l	DO Surface
LA-41	24-Oct-07	7.70	mg/l	DO Surface
LA-41	19-Apr-01	7.7	mg/L	DO Surface
LA-41	16-Jun-00	8	mg/L	DO Surface
LA-41	12-May-04	8	mg/L	DO Surface
LA-41	7-Jul-05	8	mg/l	DO Surface

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LA-41	21-Jul-04	8.1	mg/l	DO Surface
LA-41	9-Jun-05	8.2	mg/l	DO Surface
LA-41	20-Jul-06	8.4	mg/l	DO Surface
LA-41	12-Jun-08	8.80	mg/l	DO Surface
LA-41	10-Sep-03	9.6	mg/L	DO Surface
LA-44	10-Jan-00	6.1	mg/L	DO Surface
LA-44	25-Feb-00	5.9	mg/L	DO Surface
LA-44	13-Apr-00	5	mg/L	DO Surface
LA-44	1-May-00	6.7	mg/L	DO Surface
LA-44	16-Jun-00	8.5	mg/L	DO Surface
LA-44	13-Jul-00	6.4	mg/L	DO Surface
LA-44	30-Aug-00	6.3	mg/L	DO Surface
LA-44	15-Sep-00	6	mg/L	DO Surface
LA-44	3-Oct-00	6	mg/L	DO Surface
LA-44	29-Nov-00	6.6	mg/L	DO Surface
LA-44	5-Dec-00	5.8	mg/L	DO Surface
LA-44	21-Dec-00	7	mg/L	DO Surface
LA-44	11-Jan-01	5.6	mg/L	DO Surface
LA-44	25-Jan-01	6.1	mg/L	DO Surface
LA-44	15-Feb-01	6.5	mg/L	DO Surface
LA-44	27-Mar-01	8	mg/L	DO Surface
LA-44	19-Apr-01	7.4	mg/L	DO Surface
LA-44	6-Jul-01	7	mg/L	DO Surface
LA-44	18-Jul-01	5.4	mg/L	DO Surface
LA-44	23-Aug-01	5.3	mg/L	DO Surface
LA-44	13-Sep-01	5.2	mg/L	DO Surface
LA-44	5-Nov-01	6.3	mg/L	DO Surface
LA-44	10-Dec-01	6	mg/L	DO Surface
LA-44	13-Dec-01	5.7	mg/L	DO Surface
LA-44	17-Jan-02	5.8	mg/L	DO Surface
LA-44	21-Feb-02	6.1	mg/L	DO Surface
LA-44	10-Mar-02	6	mg/L	DO Surface
LA-44	14-Mar-02	6.5	mg/L	DO Surface
LA-44	16-May-02	6.3	mg/L	DO Surface
LA-44	20-Jun-02	7.3	mg/L	DO Surface
LA-44	31-Jul-02	7.1	mg/L	DO Surface
LA-44	29-Aug-02	7	mg/L	DO Surface

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LA-44	4-Oct-02	7.1	mg/L	DO Surface
LA-44	13-Nov-02	5.1	mg/L	DO Surface
LA-44	9-Dec-02	6.6	mg/L	DO Surface
LA-44	19-Dec-02	5.2	mg/L	DO Surface
LA-44	16-Jan-03	6.4	mg/L	DO Surface
LA-44	19-Feb-03	5	mg/L	DO Surface
LA-44	13-Mar-03	6	mg/L	DO Surface
LA-44	14-May-03	5.6	mg/L	DO Surface
LA-44	19-Jun-03	6.5	mg/L	DO Surface
LA-44	10-Jul-03	7.9	mg/L	DO Surface
LA-44	7-Aug-03	7	mg/L	DO Surface
LA-44	4-Sep-03	5.7	mg/L	DO Surface
LA-44	10-Sep-03	7.3	mg/L	DO Surface
LA-44	9-Oct-03	4.6	mg/L	DO Surface
LA-44	19-Nov-03	5.3	mg/L	DO Surface
LA-44	4-Dec-03	5.6	mg/L	DO Surface
LA-44	21-Jan-04	6.8	mg/L	DO Surface
LA-44	25-Feb-04	6.7	mg/L	DO Surface
LA-44	17-Mar-04	6.7	mg/L	DO Surface
LA-44	14-Apr-04	7.2	mg/L	DO Surface
LA-44	12-May-04	7.9	mg/L	DO Surface
LA-44	16-Jun-04	6.8	mg/L	DO Surface
LA-44	21-Jul-04	7.5	mg/l	DO Surface
LA-44	18-Aug-04	7.6	mg/l	DO Surface
LA-44	15-Sep-04	6.6	mg/l	DO Surface
LA-44	13-Oct-04	6.3	mg/l	DO Surface
LA-44	10-Nov-04	6.4	mg/l	DO Surface
LA-44	22-Dec-04	6.3	mg/l	DO Surface
LA-44	20-Jan-05	6.3	mg/l	DO Surface
LA-44	10-Feb-05	6.8	mg/l	DO Surface
LA-44	10-Mar-05	8.5	mg/l	DO Surface
LA-44	27-Apr-05	7.5	mg/l	DO Surface
LA-44	12-May-05	6.9	mg/l	DO Surface
LA-44	9-Jun-05	8.6	mg/l	DO Surface
LA-44	7-Jul-05	8	mg/l	DO Surface
LA-44	11-Aug-05	6.1	mg/l	DO Surface
LA-44	15-Sep-05	7	mg/l	DO Surface

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LA-44	13-Oct-05	5.5	mg/l	DO Surface
LA-44	16-Nov-05	5.1	mg/l	DO Surface
LA-44	8-Dec-05	5.9	mg/l	DO Surface
LA-44	12-Jan-06	6	mg/l	DO Surface
LA-44	16-Feb-06	5.8	mg/l	DO Surface
LA-44	13-Apr-06	5.2	mg/l	DO Surface
LA-44	11-May-06	6.2	mg/l	DO Surface
LA-44	15-Jun-06	6.6	mg/l	DO Surface
LA-44	20-Jul-06	7.7	mg/l	DO Surface
LA-44	17-Aug-06	7.6	mg/l	DO Surface
LA-44	21-Sep-06	6.5	mg/l	DO Surface
LA-44	15-Nov-06	6.6	mg/l	DO Surface
LA-44	25-Jan-07	6.60	mg/l	DO Surface
LA-44	25-Jan-07	6.6	mg/l	DO Surface
LA-44	7-Feb-07	6.70	mg/l	DO Surface
LA-44	15-Mar-07	6.10	mg/l	DO Surface
LA-44	12-Apr-07	5.80	mg/l	DO Surface
LA-44	16-May-07	5.70	mg/l	DO Surface
LA-44	18-Jul-07	6.80	mg/l	DO Surface
LA-44	9-Aug-07	6.80	mg/l	DO Surface
LA-44	24-Oct-07	5.60	mg/l	DO Surface
LA-44	15-Nov-07	6.30	mg/l	DO Surface
LA-44	19-Dec-07	6.50	mg/l	DO Surface
LA-44	17-Jan-08	6.50	mg/l	DO Surface
LA-44	14-Feb-08	6.20	mg/l	DO Surface
LA-44	20-Mar-08	6.50	mg/l	DO Surface
LA-44	17-Apr-08	5.40	mg/l	DO Surface
LA-44	15-May-08	6.40	mg/l	DO Surface
LA-44	12-Jun-08	8.50	mg/l	DO Surface
LA-46	10-Jan-00	5.8	mg/L	DO Surface
LA-46	25-Feb-00	6.7	mg/L	DO Surface
LA-46	13-Apr-00	5.9	mg/L	DO Surface
LA-46	1-May-00	6.6	mg/L	DO Surface
LA-46	16-Jun-00	7.3	mg/L	DO Surface
LA-46	13-Jul-00	6.4	mg/L	DO Surface
LA-46	30-Aug-00	6.5	mg/L	DO Surface
LA-46	15-Sep-00	7.4	mg/L	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	3-Oct-00	6.3	mg/L	DO Surface
LA-46	29-Nov-00	6.5	mg/L	DO Surface
LA-46	5-Dec-00	6	mg/L	DO Surface
LA-46	21-Dec-00	7.3	mg/L	DO Surface
LA-46	11-Jan-01	6	mg/L	DO Surface
LA-46	25-Jan-01	5.9	mg/L	DO Surface
LA-46	15-Feb-01	7	mg/L	DO Surface
LA-46	27-Mar-01	7.8	mg/L	DO Surface
LA-46	19-Apr-01	6.9	mg/L	DO Surface
LA-46	6-Jul-01	7.3	mg/L	DO Surface
LA-46	18-Jul-01	4.7	mg/L	DO Surface
LA-46	23-Aug-01	5.3	mg/L	DO Surface
LA-46	13-Sep-01	3.7	mg/L	DO Surface
LA-46	5-Nov-01	6.9	mg/L	DO Surface
LA-46	10-Dec-01	5.6	mg/L	DO Surface
LA-46	13-Dec-01	5.4	mg/L	DO Surface
LA-46	17-Jan-02	5.3	mg/L	DO Surface
LA-46	21-Feb-02	6.1	mg/L	DO Surface
LA-46	10-Mar-02	6.4	mg/L	DO Surface
LA-46	14-Mar-02	5.9	mg/L	DO Surface
LA-46	16-May-02	5.3	mg/L	DO Surface
LA-46	20-Jun-02	7.5	mg/L	DO Surface
LA-46	31-Jul-02	6.8	mg/L	DO Surface
LA-46	29-Aug-02	7	mg/L	DO Surface
LA-46	4-Oct-02	6.6	mg/L	DO Surface
LA-46	13-Nov-02	5	mg/L	DO Surface
LA-46	9-Dec-02	6	mg/L	DO Surface
LA-46	19-Dec-02	4.8	mg/L	DO Surface
LA-46	16-Jan-03	0.8	mg/L	DO Surface
LA-46	19-Feb-03	5.3	mg/L	DO Surface
LA-46	13-Mar-03	6	mg/L	DO Surface
LA-46	14-May-03	5.6	mg/L	DO Surface
LA-46	19-Jun-03	6.7	mg/L	DO Surface
LA-46	10-Jul-03	7.7	mg/L	DO Surface
LA-46	7-Aug-03	6.3	mg/L	DO Surface
LA-46	4-Sep-03	5.7	mg/L	DO Surface
LA-46	10-Sep-03	7.3	mg/L	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	9-Oct-03	5	mg/L	DO Surface
LA-46	19-Nov-03	5.4	mg/L	DO Surface
LA-46	4-Dec-03	5.4	mg/L	DO Surface
LA-46	21-Jan-04	6.4	mg/L	DO Surface
LA-46	25-Feb-04	6.7	mg/L	DO Surface
LA-46	17-Mar-04	6.7	mg/L	DO Surface
LA-46	14-Apr-04	6.8	mg/L	DO Surface
LA-46	12-May-04	7.1	mg/L	DO Surface
LA-46	16-Jun-04	6.3	mg/L	DO Surface
LA-46	21-Jul-04	7.4	mg/l	DO Surface
LA-46	18-Aug-04	8	mg/l	DO Surface
LA-46	15-Sep-04	6.9	mg/l	DO Surface
LA-46	13-Oct-04	6.3	mg/l	DO Surface
LA-46	10-Nov-04	6.4	mg/l	DO Surface
LA-46	22-Dec-04	6.4	mg/l	DO Surface
LA-46	20-Jan-05	6.1	mg/l	DO Surface
LA-46	10-Feb-05	6.8	mg/l	DO Surface
LA-46	10-Mar-05	7.4	mg/l	DO Surface
LA-46	27-Apr-05	6	mg/l	DO Surface
LA-46	12-May-05	6.5	mg/l	DO Surface
LA-46	9-Jun-05	7.9	mg/l	DO Surface
LA-46	7-Jul-05	7.7	mg/l	DO Surface
LA-46	11-Aug-05	6.2	mg/l	DO Surface
LA-46	15-Sep-05	7.3	mg/l	DO Surface
LA-46	13-Oct-05	5.3	mg/l	DO Surface
LA-46	16-Nov-05	5	mg/l	DO Surface
LA-46	8-Dec-05	5.8	mg/l	DO Surface
LA-46	12-Jan-06	6.1	mg/l	DO Surface
LA-46	16-Feb-06	6.5	mg/l	DO Surface
LA-46	13-Apr-06	5.4	mg/l	DO Surface
LA-46	11-May-06	6.2	mg/l	DO Surface
LA-46	15-Jun-06	6.2	mg/l	DO Surface
LA-46	20-Jul-06	7.2	mg/l	DO Surface
LA-46	17-Aug-06	7.3	mg/l	DO Surface
LA-46	21-Sep-06	6.5	mg/l	DO Surface
LA-46	15-Nov-06	6.6	mg/l	DO Surface
LA-46	25-Jan-07	6.50	mg/l	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	25-Jan-07	6.5	mg/l	DO Surface
LA-46	7-Feb-07	6.50	mg/l	DO Surface
LA-46	15-Mar-07	6.00	mg/l	DO Surface
LA-46	12-Apr-07	6.00	mg/l	DO Surface
LA-46	16-May-07	5.00	mg/l	DO Surface
LA-46	18-Jul-07	6.90	mg/l	DO Surface
LA-46	9-Aug-07	6.60	mg/l	DO Surface
LA-46	24-Oct-07	6.50	mg/l	DO Surface
LA-46	15-Nov-07	6.50	mg/l	DO Surface
LA-46	19-Dec-07	6.40	mg/l	DO Surface
LA-46	17-Jan-08	6.30	mg/l	DO Surface
LA-46	14-Feb-08	5.70	mg/l	DO Surface
LA-46	20-Mar-08	6.50	mg/l	DO Surface
LA-46	17-Apr-08	5.90	mg/l	DO Surface
LA-46	15-May-08	6.70	mg/l	DO Surface
LA-46	12-Jun-08	7.60	mg/l	DO Surface
LA-47	10-Jan-00	6	mg/L	DO Surface
LA-47	25-Feb-00	6.6	mg/L	DO Surface
LA-47	13-Apr-00	6.1	mg/L	DO Surface
LA-47	1-May-00	6.7	mg/L	DO Surface
LA-47	16-Jun-00	8.6	mg/L	DO Surface
LA-47	13-Jul-00	6.9	mg/L	DO Surface
LA-47	30-Aug-00	6.6	mg/L	DO Surface
LA-47	15-Sep-00	6.4	mg/L	DO Surface
LA-47	3-Oct-00	6.3	mg/L	DO Surface
LA-47	29-Nov-00	6	mg/L	DO Surface
LA-47	5-Dec-00	5	mg/L	DO Surface
LA-47	21-Dec-00	7.5	mg/L	DO Surface
LA-47	11-Jan-01	5.5	mg/L	DO Surface
LA-47	25-Jan-01	5.6	mg/L	DO Surface
LA-47	15-Feb-01	6.9	mg/L	DO Surface
LA-47	27-Mar-01	7.8	mg/L	DO Surface
LA-47	19-Apr-01	6.7	mg/L	DO Surface
LA-47	6-Jul-01	7.3	mg/L	DO Surface
LA-47	18-Jul-01	5	mg/L	DO Surface
LA-47	23-Aug-01	5.2	mg/L	DO Surface
LA-47	13-Sep-01	4	mg/L	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	5-Nov-01	7.4	mg/L	DO Surface
LA-47	10-Dec-01	4.8	mg/L	DO Surface
LA-47	13-Dec-01	5.7	mg/L	DO Surface
LA-47	17-Jan-02	5.9	mg/L	DO Surface
LA-47	21-Feb-02	6.3	mg/L	DO Surface
LA-47	10-Mar-02	7	mg/L	DO Surface
LA-47	14-Mar-02	7	mg/L	DO Surface
LA-47	16-May-02	6	mg/L	DO Surface
LA-47	20-Jun-02	7.3	mg/L	DO Surface
LA-47	31-Jul-02	6.9	mg/L	DO Surface
LA-47	29-Aug-02	7.2	mg/L	DO Surface
LA-47	4-Oct-02	7	mg/L	DO Surface
LA-47	13-Nov-02	4.5	mg/L	DO Surface
LA-47	9-Dec-02	7.1	mg/L	DO Surface
LA-47	19-Dec-02	5.3	mg/L	DO Surface
LA-47	16-Jan-03	4.3	mg/L	DO Surface
LA-47	19-Feb-03	5.8	mg/L	DO Surface
LA-47	13-Mar-03	5.7	mg/L	DO Surface
LA-47	14-May-03	5.3	mg/L	DO Surface
LA-47	19-Jun-03	5.6	mg/L	DO Surface
LA-47	10-Jul-03	7.4	mg/L	DO Surface
LA-47	7-Aug-03	6.4	mg/L	DO Surface
LA-47	4-Sep-03	6.5	mg/L	DO Surface
LA-47	10-Sep-03	7.6	mg/L	DO Surface
LA-47	9-Oct-03	4.5	mg/L	DO Surface
LA-47	19-Nov-03	4.6	mg/L	DO Surface
LA-47	4-Dec-03	5.5	mg/L	DO Surface
LA-47	21-Jan-04	6.3	mg/L	DO Surface
LA-47	25-Feb-04	6.7	mg/L	DO Surface
LA-47	17-Mar-04	6.5	mg/L	DO Surface
LA-47	14-Apr-04	6.8	mg/L	DO Surface
LA-47	12-May-04	7.7	mg/L	DO Surface
LA-47	16-Jun-04	6.2	mg/L	DO Surface
LA-47	21-Jul-04	8.4	mg/l	DO Surface
LA-47	18-Aug-04	7.7	mg/l	DO Surface
LA-47	15-Sep-04	6.1	mg/l	DO Surface
LA-47	13-Oct-04	6.6	mg/l	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	10-Nov-04	6.1	mg/l	DO Surface
LA-47	22-Dec-04	6.1	mg/l	DO Surface
LA-47	20-Jan-05	6.3	mg/l	DO Surface
LA-47	10-Feb-05	6.2	mg/l	DO Surface
LA-47	10-Mar-05	7.1	mg/l	DO Surface
LA-47	27-Apr-05	7.4	mg/l	DO Surface
LA-47	12-May-05	6.9	mg/l	DO Surface
LA-47	9-Jun-05	7.7	mg/l	DO Surface
LA-47	7-Jul-05	8.5	mg/l	DO Surface
LA-47	11-Aug-05	7.4	mg/l	DO Surface
LA-47	15-Sep-05	7.5	mg/l	DO Surface
LA-47	13-Oct-05	6	mg/l	DO Surface
LA-47	16-Nov-05	4.9	mg/l	DO Surface
LA-47	8-Dec-05	5.7	mg/l	DO Surface
LA-47	12-Jan-06	5.6	mg/l	DO Surface
LA-47	16-Feb-06	6.7	mg/l	DO Surface
LA-47	13-Apr-06	5.3	mg/l	DO Surface
LA-47	11-May-06	6.3	mg/l	DO Surface
LA-47	15-Jun-06	6.3	mg/l	DO Surface
LA-47	20-Jul-06	7.5	mg/l	DO Surface
LA-47	17-Aug-06	8.1	mg/l	DO Surface
LA-47	21-Sep-06	6.4	mg/l	DO Surface
LA-47	15-Nov-06	6.7	mg/l	DO Surface
LA-47	25-Jan-07	6.50	mg/l	DO Surface
LA-47	25-Jan-07	6.5	mg/l	DO Surface
LA-47	7-Feb-07	6.30	mg/l	DO Surface
LA-47	15-Mar-07	6.40	mg/l	DO Surface
LA-47	12-Apr-07	6.30	mg/l	DO Surface
LA-47	16-May-07	6.00	mg/l	DO Surface
LA-47	18-Jul-07	6.10	mg/l	DO Surface
LA-47	9-Aug-07	6.50	mg/l	DO Surface
LA-47	24-Oct-07	5.40	mg/l	DO Surface
LA-47	15-Nov-07	6.70	mg/l	DO Surface
LA-47	19-Dec-07	6.10	mg/l	DO Surface
LA-47	17-Jan-08	6.70	mg/l	DO Surface
LA-47	14-Feb-08	6.10	mg/l	DO Surface
LA-47	20-Mar-08	6.30	mg/l	DO Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	17-Apr-08	5.40	mg/l	DO Surface
LA-47	15-May-08	6.60	mg/l	DO Surface
LA-47	12-Jun-08	8.50	mg/l	DO Surface
LA-30	14-Feb-08	12.20	°C	Temperature, Bottom
LA-30	17-Jan-08	13.00	°C	Temperature, Bottom
LA-30	4-Sep-03	13.5	C	Temperature, Bottom
LA-30	16-May-07	13.50	°C	Temperature, Bottom
LA-30	20-Mar-08	13.60	°C	Temperature, Bottom
LA-30	7-Feb-07	13.80	°C	Temperature, Bottom
LA-30	21-Jan-04	14	C	Temperature, Bottom
LA-30	25-Feb-04	14	C	Temperature, Bottom
LA-30	22-Dec-04	14	C	Temperature, Bottom
LA-30	13-Apr-06	14	C	Temperature, Bottom
LA-30	25-Jan-07	14.00	C	Temperature, Bottom
LA-30	25-Jan-07	14	C	Temperature, Bottom
LA-30	19-Dec-07	14.00	°C	Temperature, Bottom
LA-30	16-Feb-06	14.1	C	Temperature, Bottom
LA-30	8-Dec-05	14.5	C	Temperature, Bottom
LA-30	25-Feb-00	14.8	C	Temperature, Bottom
LA-30	15-Mar-07	14.90	°C	Temperature, Bottom
LA-30	15-Feb-01	15	C	Temperature, Bottom
LA-30	14-Mar-02	15	C	Temperature, Bottom
LA-30	19-Dec-02	15	C	Temperature, Bottom
LA-30	10-Feb-05	15	C	Temperature, Bottom
LA-30	12-Jan-06	15	C	Temperature, Bottom
LA-30	11-May-06	15	C	Temperature, Bottom
LA-30	12-Apr-07	15.00	°C	Temperature, Bottom
LA-30	17-Apr-08	15.00	°C	Temperature, Bottom
LA-30	13-Apr-00	15.1	C	Temperature, Bottom
LA-30	3-Oct-00	15.5	C	Temperature, Bottom
LA-30	25-Jan-01	15.5	C	Temperature, Bottom
LA-30	27-Mar-01	15.5	C	Temperature, Bottom
LA-30	19-Apr-01	15.5	C	Temperature, Bottom
LA-30	13-Dec-01	15.5	C	Temperature, Bottom
LA-30	17-Jan-02	15.5	C	Temperature, Bottom
LA-30	13-Mar-03	15.5	C	Temperature, Bottom
LA-30	14-Apr-04	15.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	20-Jan-05	15.5	C	Temperature, Bottom
LA-30	27-Apr-05	15.5	C	Temperature, Bottom
LA-30	7-Jul-05	15.5	C	Temperature, Bottom
LA-30	24-Oct-07	15.80	°C	Temperature, Bottom
LA-30	29-Nov-00	16	C	Temperature, Bottom
LA-30	21-Dec-00	16	C	Temperature, Bottom
LA-30	16-Jan-03	16	C	Temperature, Bottom
LA-30	4-Dec-03	16	C	Temperature, Bottom
LA-30	10-Mar-05	16	C	Temperature, Bottom
LA-30	21-Feb-02	16.5	C	Temperature, Bottom
LA-30	4-Oct-02	16.5	C	Temperature, Bottom
LA-30	19-Feb-03	16.5	C	Temperature, Bottom
LA-30	14-May-03	16.5	C	Temperature, Bottom
LA-30	15-Sep-05	16.5	C	Temperature, Bottom
LA-30	15-Nov-07	16.50	°C	Temperature, Bottom
LA-30	15-May-08	16.80	°C	Temperature, Bottom
LA-30	16-May-02	17	C	Temperature, Bottom
LA-30	13-Nov-02	17	C	Temperature, Bottom
LA-30	17-Mar-04	17	C	Temperature, Bottom
LA-30	12-May-05	17	C	Temperature, Bottom
LA-30	9-Jun-05	17	C	Temperature, Bottom
LA-30	13-Oct-05	17	C	Temperature, Bottom
LA-30	16-Nov-05	17	C	Temperature, Bottom
LA-30	6-Jul-01	17.5	C	Temperature, Bottom
LA-30	5-Nov-01	17.5	C	Temperature, Bottom
LA-30	19-Jun-03	17.5	C	Temperature, Bottom
LA-30	12-May-04	17.5	C	Temperature, Bottom
LA-30	15-Jun-06	17.5	C	Temperature, Bottom
LA-30	17-Aug-06	17.5	C	Temperature, Bottom
LA-30	5-Dec-00	18	C	Temperature, Bottom
LA-30	11-Jan-01	18	C	Temperature, Bottom
LA-30	18-Jul-01	18	C	Temperature, Bottom
LA-30	10-Mar-02	18	C	Temperature, Bottom
LA-30	20-Jun-02	18	C	Temperature, Bottom
LA-30	9-Dec-02	18	C	Temperature, Bottom
LA-30	19-Nov-03	18	C	Temperature, Bottom
LA-30	16-Jun-04	18	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	10-Nov-04	18	C	Temperature, Bottom					
LA-30	11-Aug-05	18	C	Temperature, Bottom					
LA-30	21-Sep-06	18	C	Temperature, Bottom					
LA-30	15-Nov-06	18	C	Temperature, Bottom					
LA-30	18-Jul-07	18.20	°C	Temperature, Bottom					
LA-30	10-Jan-00	18.5	C	Temperature, Bottom					
LA-30	9-Oct-03	18.5	C	Temperature, Bottom					
LA-30	10-Dec-01	19	C	Temperature, Bottom					
LA-30	29-Aug-02	19	C	Temperature, Bottom					
LA-30	10-Jul-03	19	C	Temperature, Bottom					
LA-30	18-Aug-04	19	C	Temperature, Bottom					
LA-30	13-Oct-04	19	C	Temperature, Bottom					
LA-30	12-Jun-08	19.00	°C	Temperature, Bottom	18	19	18.45	16	2007-2008
LA-30	15-Sep-00	19.5	C	Temperature, Bottom					
LA-30	31-Jul-02	19.5	C	Temperature, Bottom					
LA-30	21-Jul-04	19.5	C	Temperature, Bottom					
LA-30	9-Aug-07	19.50	°C	Temperature, Bottom					
LA-30	16-Jun-00	20	C	Temperature, Bottom					
LA-30	30-Aug-00	20	C	Temperature, Bottom					
LA-30	13-Sep-01	20	C	Temperature, Bottom					
LA-30	7-Aug-03	20	C	Temperature, Bottom					
LA-30	20-Jul-06	20	C	Temperature, Bottom					
LA-30	23-Aug-01	20.5	C	Temperature, Bottom					
LA-30	15-Sep-04	20.5	C	Temperature, Bottom					
LA-30	13-Jul-00	21	C	Temperature, Bottom					
LA-30	10-Sep-03	23	C	Temperature, Bottom					
LA-32B	14-Feb-08	12.30	°C	Temperature, Bottom					
LA-32B	17-Jan-08	12.80	°C	Temperature, Bottom					
LA-32B	20-Mar-08	12.80	°C	Temperature, Bottom					
LA-32B	25-Jan-07	13.00	C	Temperature, Bottom					
LA-32B	25-Jan-07	13	C	Temperature, Bottom					
LA-32B	16-May-07	13.00	°C	Temperature, Bottom					
LA-32B	7-Feb-07	13.20	°C	Temperature, Bottom					
LA-32B	25-Feb-00	13.3	C	Temperature, Bottom					
LA-32B	13-Dec-01	13.5	C	Temperature, Bottom					
LA-32B	21-Jan-04	13.5	C	Temperature, Bottom					
LA-32B	15-Mar-07	13.90	°C	Temperature, Bottom					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	25-Jan-01	14	C	Temperature, Bottom
LA-32B	15-Feb-01	14	C	Temperature, Bottom
LA-32B	18-Feb-04	14	C	Temperature, Bottom
LA-32B	20-Jan-05	14	C	Temperature, Bottom
LA-32B	16-Feb-06	14	C	Temperature, Bottom
LA-32B	13-Apr-06	14	C	Temperature, Bottom
LA-32B	12-Apr-07	14.00	°C	Temperature, Bottom
LA-32B	19-Dec-07	14.00	°C	Temperature, Bottom
LA-32B	17-Jan-02	14.5	C	Temperature, Bottom
LA-32B	22-Dec-04	14.5	C	Temperature, Bottom
LA-32B	8-Dec-05	14.5	C	Temperature, Bottom
LA-32B	13-Apr-00	15	C	Temperature, Bottom
LA-32B	3-Oct-00	15	C	Temperature, Bottom
LA-32B	21-Dec-00	15	C	Temperature, Bottom
LA-32B	4-Oct-02	15	C	Temperature, Bottom
LA-32B	13-Mar-03	15	C	Temperature, Bottom
LA-32B	14-Apr-04	15	C	Temperature, Bottom
LA-32B	10-Feb-05	15	C	Temperature, Bottom
LA-32B	27-Apr-05	15	C	Temperature, Bottom
LA-32B	7-Jul-05	15	C	Temperature, Bottom
LA-32B	12-Jan-06	15	C	Temperature, Bottom
LA-32B	11-May-06	15	C	Temperature, Bottom
LA-32B	24-Oct-07	15.00	°C	Temperature, Bottom
LA-32B	15-Nov-07	15.20	°C	Temperature, Bottom
LA-32B	17-Apr-08	15.40	°C	Temperature, Bottom
LA-32B	5-Dec-00	15.5	C	Temperature, Bottom
LA-32B	27-Mar-01	15.5	C	Temperature, Bottom
LA-32B	19-Apr-01	15.5	C	Temperature, Bottom
LA-32B	21-Feb-02	15.5	C	Temperature, Bottom
LA-32B	16-May-02	15.5	C	Temperature, Bottom
LA-32B	4-Dec-03	15.5	C	Temperature, Bottom
LA-32B	29-Nov-00	16	C	Temperature, Bottom
LA-32B	13-Nov-02	16	C	Temperature, Bottom
LA-32B	10-Mar-05	16	C	Temperature, Bottom
LA-32B	12-May-05	16	C	Temperature, Bottom
LA-32B	9-Jun-05	16	C	Temperature, Bottom
LA-32B	15-Sep-05	16	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	13-Oct-05	16	C	Temperature, Bottom					
LA-32B	16-Nov-05	16	C	Temperature, Bottom					
LA-32B	15-May-08	16.00	°C	Temperature, Bottom					
LA-32B	10-Mar-02	16.5	C	Temperature, Bottom					
LA-32B	19-Feb-03	16.5	C	Temperature, Bottom					
LA-32B	19-Jun-03	16.5	C	Temperature, Bottom					
LA-32B	11-Aug-05	16.5	C	Temperature, Bottom					
LA-32B	11-Jan-01	17	C	Temperature, Bottom					
LA-32B	9-Dec-02	17	C	Temperature, Bottom					
LA-32B	17-Mar-04	17	C	Temperature, Bottom					
LA-32B	12-May-04	17	C	Temperature, Bottom					
LA-32B	13-Oct-04	17	C	Temperature, Bottom					
LA-32B	10-Nov-04	17	C	Temperature, Bottom					
LA-32B	15-Jun-06	17	C	Temperature, Bottom					
LA-32B	17-Aug-06	17	C	Temperature, Bottom					
LA-32B	15-Nov-06	17	C	Temperature, Bottom					
LA-32B	6-Jul-01	17.5	C	Temperature, Bottom					
LA-32B	19-Nov-03	17.5	C	Temperature, Bottom					
LA-32B	12-Jun-08	17.50	°C	Temperature, Bottom	16.5	17.5	16.96875	16	2007-2008
LA-32B	21-Sep-06	17.8	C	Temperature, Bottom					
LA-32B	10-Jan-00	18	C	Temperature, Bottom					
LA-32B	18-Jul-01	18	C	Temperature, Bottom					
LA-32B	5-Nov-01	18	C	Temperature, Bottom					
LA-32B	10-Dec-01	18	C	Temperature, Bottom					
LA-32B	20-Jun-02	18	C	Temperature, Bottom					
LA-32B	29-Aug-02	18	C	Temperature, Bottom					
LA-32B	7-Aug-03	18	C	Temperature, Bottom					
LA-32B	16-Jun-04	18	C	Temperature, Bottom					
LA-32B	18-Aug-04	18	C	Temperature, Bottom					
LA-32B	18-Jul-07	18.00	°C	Temperature, Bottom					
LA-32B	15-Sep-00	18.5	C	Temperature, Bottom					
LA-32B	16-Jun-00	19	C	Temperature, Bottom					
LA-32B	10-Jul-03	19	C	Temperature, Bottom					
LA-32B	9-Oct-03	19	C	Temperature, Bottom					
LA-32B	21-Jul-04	19	C	Temperature, Bottom					
LA-32B	9-Aug-07	19.00	°C	Temperature, Bottom					
LA-32B	30-Aug-00	19.5	C	Temperature, Bottom					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	13-Sep-01	19.5	C	Temperature, Bottom
LA-32B	10-Sep-03	19.5	C	Temperature, Bottom
LA-32B	20-Jul-06	19.5	C	Temperature, Bottom
LA-32B	13-Jul-00	19.7	C	Temperature, Bottom
LA-32B	23-Aug-01	20	C	Temperature, Bottom
LA-32B	15-Sep-04	21	C	Temperature, Bottom
LA-33	14-Feb-08	12.80	°C	Temperature, Bottom
LA-33	20-Mar-08	12.90	°C	Temperature, Bottom
LA-33	25-Jan-07	13.00	C	Temperature, Bottom
LA-33	25-Jan-07	13	C	Temperature, Bottom
LA-33	16-May-07	13.00	°C	Temperature, Bottom
LA-33	17-Jan-08	13.00	°C	Temperature, Bottom
LA-33	17-Apr-08	13.20	°C	Temperature, Bottom
LA-33	21-Jan-04	13.5	C	Temperature, Bottom
LA-33	13-Apr-06	13.5	C	Temperature, Bottom
LA-33	7-Feb-07	13.50	°C	Temperature, Bottom
LA-33	15-Feb-01	14	C	Temperature, Bottom
LA-33	13-Dec-01	14	C	Temperature, Bottom
LA-33	17-Jan-02	14	C	Temperature, Bottom
LA-33	4-Sep-03	14	C	Temperature, Bottom
LA-33	18-Feb-04	14	C	Temperature, Bottom
LA-33	22-Dec-04	14	C	Temperature, Bottom
LA-33	20-Jan-05	14	C	Temperature, Bottom
LA-33	16-Feb-06	14	C	Temperature, Bottom
LA-33	12-Apr-07	14.00	°C	Temperature, Bottom
LA-33	19-Dec-07	14.00	°C	Temperature, Bottom
LA-33	15-Mar-07	14.20	°C	Temperature, Bottom
LA-33	25-Feb-00	14.3	C	Temperature, Bottom
LA-33	25-Jan-01	14.5	C	Temperature, Bottom
LA-33	4-Oct-02	14.5	C	Temperature, Bottom
LA-33	16-Jan-03	14.5	C	Temperature, Bottom
LA-33	8-Dec-05	14.5	C	Temperature, Bottom
LA-33	3-Oct-00	15	C	Temperature, Bottom
LA-33	21-Dec-00	15	C	Temperature, Bottom
LA-33	27-Mar-01	15	C	Temperature, Bottom
LA-33	19-Apr-01	15	C	Temperature, Bottom
LA-33	21-Feb-02	15	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	14-Mar-02	15	C	Temperature, Bottom
LA-33	19-Dec-02	15	C	Temperature, Bottom
LA-33	13-Mar-03	15	C	Temperature, Bottom
LA-33	4-Dec-03	15	C	Temperature, Bottom
LA-33	10-Feb-05	15	C	Temperature, Bottom
LA-33	10-Mar-05	15	C	Temperature, Bottom
LA-33	27-Apr-05	15	C	Temperature, Bottom
LA-33	7-Jul-05	15	C	Temperature, Bottom
LA-33	12-Jan-06	15	C	Temperature, Bottom
LA-33	11-May-06	15	C	Temperature, Bottom
LA-33	24-Oct-07	15.00	°C	Temperature, Bottom
LA-33	13-Apr-00	15.2	C	Temperature, Bottom
LA-33	16-May-02	15.5	C	Temperature, Bottom
LA-33	19-Feb-03	15.5	C	Temperature, Bottom
LA-33	14-May-03	15.5	C	Temperature, Bottom
LA-33	15-Sep-05	15.5	C	Temperature, Bottom
LA-33	15-May-08	15.80	°C	Temperature, Bottom
LA-33	29-Nov-00	16	C	Temperature, Bottom
LA-33	5-Dec-00	16	C	Temperature, Bottom
LA-33	13-Nov-02	16	C	Temperature, Bottom
LA-33	17-Mar-04	16	C	Temperature, Bottom
LA-33	12-May-05	16	C	Temperature, Bottom
LA-33	9-Jun-05	16	C	Temperature, Bottom
LA-33	13-Oct-05	16	C	Temperature, Bottom
LA-33	16-Nov-05	16	C	Temperature, Bottom
LA-33	15-Nov-07	16.00	°C	Temperature, Bottom
LA-33	19-Jun-03	16.5	C	Temperature, Bottom
LA-33	17-Aug-06	16.5	C	Temperature, Bottom
LA-33	11-Jan-01	17	C	Temperature, Bottom
LA-33	18-Jul-01	17	C	Temperature, Bottom
LA-33	10-Mar-02	17	C	Temperature, Bottom
LA-33	19-Nov-03	17	C	Temperature, Bottom
LA-33	12-May-04	17	C	Temperature, Bottom
LA-33	10-Nov-04	17	C	Temperature, Bottom
LA-33	11-Aug-05	17	C	Temperature, Bottom
LA-33	15-Nov-06	17	C	Temperature, Bottom
LA-33	6-Jul-01	17.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	7-Aug-03	17.5	C	Temperature, Bottom
LA-33	13-Oct-04	17.5	C	Temperature, Bottom
LA-33	12-Jun-08	17.80	°C	Temperature, Bottom
LA-33	21-Sep-06	17.8	C	Temperature, Bottom
LA-33	10-Jan-00	18	C	Temperature, Bottom
LA-33	23-Aug-01	18	C	Temperature, Bottom
LA-33	5-Nov-01	18	C	Temperature, Bottom
LA-33	10-Dec-01	18	C	Temperature, Bottom
LA-33	20-Jun-02	18	C	Temperature, Bottom
LA-33	29-Aug-02	18	C	Temperature, Bottom
LA-33	9-Dec-02	18	C	Temperature, Bottom
LA-33	16-Jun-04	18	C	Temperature, Bottom
LA-33	21-Jul-04	18	C	Temperature, Bottom
LA-33	18-Aug-04	18	C	Temperature, Bottom
LA-33	15-Jun-06	18	C	Temperature, Bottom
LA-33	18-Jul-07	18.00	°C	Temperature, Bottom
LA-33	9-Aug-07	18.00	°C	Temperature, Bottom
LA-33	15-Sep-00	18.5	C	Temperature, Bottom
LA-33	31-Jul-02	18.5	C	Temperature, Bottom
LA-33	9-Oct-03	18.5	C	Temperature, Bottom
LA-33	14-Apr-04	18.5	C	Temperature, Bottom
LA-33	16-Jun-00	19	C	Temperature, Bottom
LA-33	13-Sep-01	19	C	Temperature, Bottom
LA-33	10-Jul-03	19	C	Temperature, Bottom
LA-33	10-Sep-03	19	C	Temperature, Bottom
LA-33	20-Jul-06	19	C	Temperature, Bottom
LA-33	13-Jul-00	19.5	C	Temperature, Bottom
LA-33	30-Aug-00	19.5	C	Temperature, Bottom
LA-33	15-Sep-04	20.5	C	Temperature, Bottom
LA-35	25-Jan-07	12.50	C	Temperature, Bottom
LA-35	25-Jan-07	12.5	C	Temperature, Bottom
LA-35	14-Feb-08	12.60	°C	Temperature, Bottom
LA-35	13-Apr-06	13	C	Temperature, Bottom
LA-35	20-Mar-08	13.00	°C	Temperature, Bottom
LA-35	17-Apr-08	13.00	°C	Temperature, Bottom
LA-35	17-Jan-08	13.10	°C	Temperature, Bottom
LA-35	7-Feb-07	13.40	°C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	21-Jan-04	13.5	C	Temperature, Bottom
LA-35	16-May-07	13.50	°C	Temperature, Bottom
LA-35	13-Dec-01	14	C	Temperature, Bottom
LA-35	17-Jan-02	14	C	Temperature, Bottom
LA-35	19-Dec-02	14	C	Temperature, Bottom
LA-35	16-Jan-03	14	C	Temperature, Bottom
LA-35	4-Sep-03	14	C	Temperature, Bottom
LA-35	18-Feb-04	14	C	Temperature, Bottom
LA-35	15-Mar-07	14.00	°C	Temperature, Bottom
LA-35	19-Dec-07	14.00	°C	Temperature, Bottom
LA-35	16-Feb-06	14.1	C	Temperature, Bottom
LA-35	15-Feb-01	14.5	C	Temperature, Bottom
LA-35	14-Mar-02	14.5	C	Temperature, Bottom
LA-35	22-Dec-04	14.5	C	Temperature, Bottom
LA-35	20-Jan-05	14.5	C	Temperature, Bottom
LA-35	8-Dec-05	14.5	C	Temperature, Bottom
LA-35	12-Apr-07	14.50	°C	Temperature, Bottom
LA-35	25-Feb-00	14.7	C	Temperature, Bottom
LA-35	13-Apr-00	15	C	Temperature, Bottom
LA-35	3-Oct-00	15	C	Temperature, Bottom
LA-35	25-Jan-01	15	C	Temperature, Bottom
LA-35	21-Feb-02	15	C	Temperature, Bottom
LA-35	4-Oct-02	15	C	Temperature, Bottom
LA-35	13-Mar-03	15	C	Temperature, Bottom
LA-35	14-Apr-04	15	C	Temperature, Bottom
LA-35	10-Feb-05	15	C	Temperature, Bottom
LA-35	27-Apr-05	15	C	Temperature, Bottom
LA-35	7-Jul-05	15	C	Temperature, Bottom
LA-35	12-Jan-06	15	C	Temperature, Bottom
LA-35	24-Oct-07	15.00	°C	Temperature, Bottom
LA-35	11-May-06	15.1	C	Temperature, Bottom
LA-35	21-Dec-00	15.5	C	Temperature, Bottom
LA-35	27-Mar-01	15.5	C	Temperature, Bottom
LA-35	19-Apr-01	15.5	C	Temperature, Bottom
LA-35	16-May-02	15.5	C	Temperature, Bottom
LA-35	14-May-03	15.5	C	Temperature, Bottom
LA-35	4-Dec-03	15.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	17-Mar-04	15.5	C	Temperature, Bottom
LA-35	15-Nov-07	15.50	°C	Temperature, Bottom
LA-35	15-May-08	15.80	°C	Temperature, Bottom
LA-35	19-Feb-03	16	C	Temperature, Bottom
LA-35	10-Mar-05	16	C	Temperature, Bottom
LA-35	12-May-05	16	C	Temperature, Bottom
LA-35	15-Sep-05	16	C	Temperature, Bottom
LA-35	13-Oct-05	16	C	Temperature, Bottom
LA-35	16-Nov-05	16	C	Temperature, Bottom
LA-35	29-Nov-00	16.5	C	Temperature, Bottom
LA-35	5-Dec-00	16.5	C	Temperature, Bottom
LA-35	19-Jun-03	16.5	C	Temperature, Bottom
LA-35	9-Jun-05	16.5	C	Temperature, Bottom
LA-35	11-Jan-01	17	C	Temperature, Bottom
LA-35	10-Mar-02	17	C	Temperature, Bottom
LA-35	9-Dec-02	17	C	Temperature, Bottom
LA-35	7-Aug-03	17	C	Temperature, Bottom
LA-35	19-Nov-03	17	C	Temperature, Bottom
LA-35	12-May-04	17	C	Temperature, Bottom
LA-35	11-Aug-05	17	C	Temperature, Bottom
LA-35	15-Jun-06	17	C	Temperature, Bottom
LA-35	17-Aug-06	17	C	Temperature, Bottom
LA-35	15-Nov-06	17	C	Temperature, Bottom
LA-35	6-Jul-01	17.5	C	Temperature, Bottom
LA-35	18-Jul-01	17.5	C	Temperature, Bottom
LA-35	10-Nov-04	17.5	C	Temperature, Bottom
LA-35	21-Sep-06	17.8	C	Temperature, Bottom
LA-35	12-Jun-08	17.90	°C	Temperature, Bottom
LA-35	5-Nov-01	18	C	Temperature, Bottom
LA-35	10-Dec-01	18	C	Temperature, Bottom
LA-35	20-Jun-02	18	C	Temperature, Bottom
LA-35	10-Jul-03	18	C	Temperature, Bottom
LA-35	16-Jun-04	18	C	Temperature, Bottom
LA-35	18-Aug-04	18	C	Temperature, Bottom
LA-35	13-Oct-04	18	C	Temperature, Bottom
LA-35	18-Jul-07	18.00	°C	Temperature, Bottom
LA-35	10-Jan-00	18.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-35	13-Sep-01	19	C	Temperature, Bottom
LA-35	31-Jul-02	19	C	Temperature, Bottom
LA-35	29-Aug-02	19	C	Temperature, Bottom
LA-35	9-Oct-03	19	C	Temperature, Bottom
LA-35	21-Jul-04	19	C	Temperature, Bottom
LA-35	20-Jul-06	19	C	Temperature, Bottom
LA-35	13-Jul-00	19.5	C	Temperature, Bottom
LA-35	30-Aug-00	19.5	C	Temperature, Bottom
LA-35	15-Sep-00	19.5	C	Temperature, Bottom
LA-35	23-Aug-01	19.5	C	Temperature, Bottom
LA-35	9-Aug-07	19.50	°C	Temperature, Bottom
LA-35	16-Jun-00	20	C	Temperature, Bottom
LA-35	10-Sep-03	20	C	Temperature, Bottom
LA-35	15-Sep-04	21	C	Temperature, Bottom
LA-39	17-Jan-08	12.50	°C	Temperature, Bottom
LA-39	25-Jan-07	12.8	C	Temperature, Bottom
LA-39	25-Jan-07	12.80	C	Temperature, Bottom
LA-39	14-Feb-08	12.80	°C	Temperature, Bottom
LA-39	13-Apr-06	13	C	Temperature, Bottom
LA-39	20-Mar-08	13.00	°C	Temperature, Bottom
LA-39	15-Feb-01	13.5	C	Temperature, Bottom
LA-39	21-Jan-04	13.5	C	Temperature, Bottom
LA-39	16-May-07	13.50	°C	Temperature, Bottom
LA-39	7-Feb-07	13.80	°C	Temperature, Bottom
LA-39	25-Feb-00	14	C	Temperature, Bottom
LA-39	13-Dec-01	14	C	Temperature, Bottom
LA-39	4-Sep-03	14	C	Temperature, Bottom
LA-39	18-Feb-04	14	C	Temperature, Bottom
LA-39	20-Jan-05	14	C	Temperature, Bottom
LA-39	10-Feb-05	14	C	Temperature, Bottom
LA-39	12-Jan-06	14	C	Temperature, Bottom
LA-39	15-Mar-07	14.00	°C	Temperature, Bottom
LA-39	12-Apr-07	14.00	°C	Temperature, Bottom
LA-39	19-Dec-07	14.00	°C	Temperature, Bottom
LA-39	3-Oct-00	14.5	C	Temperature, Bottom
LA-39	21-Dec-00	14.5	C	Temperature, Bottom
LA-39	25-Jan-01	14.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	17-Jan-02	14.5	C	Temperature, Bottom
LA-39	4-Oct-02	14.5	C	Temperature, Bottom
LA-39	16-Jan-03	14.5	C	Temperature, Bottom
LA-39	22-Dec-04	14.5	C	Temperature, Bottom
LA-39	7-Jul-05	14.5	C	Temperature, Bottom
LA-39	8-Dec-05	14.5	C	Temperature, Bottom
LA-39	11-May-06	14.8	C	Temperature, Bottom
LA-39	13-Apr-00	15	C	Temperature, Bottom
LA-39	21-Feb-02	15	C	Temperature, Bottom
LA-39	14-Mar-02	15	C	Temperature, Bottom
LA-39	13-Mar-03	15	C	Temperature, Bottom
LA-39	4-Dec-03	15	C	Temperature, Bottom
LA-39	14-Apr-04	15	C	Temperature, Bottom
LA-39	27-Apr-05	15	C	Temperature, Bottom
LA-39	16-Feb-06	15	C	Temperature, Bottom
LA-39	24-Oct-07	15.10	°C	Temperature, Bottom
LA-39	27-Mar-01	15.5	C	Temperature, Bottom
LA-39	19-Apr-01	15.5	C	Temperature, Bottom
LA-39	19-Dec-02	15.5	C	Temperature, Bottom
LA-39	19-Feb-03	15.5	C	Temperature, Bottom
LA-39	14-May-03	15.5	C	Temperature, Bottom
LA-39	15-Nov-07	15.50	°C	Temperature, Bottom
LA-39	29-Nov-00	16	C	Temperature, Bottom
LA-39	10-Mar-02	16	C	Temperature, Bottom
LA-39	16-May-02	16	C	Temperature, Bottom
LA-39	13-Nov-02	16	C	Temperature, Bottom
LA-39	17-Mar-04	16	C	Temperature, Bottom
LA-39	10-Mar-05	16	C	Temperature, Bottom
LA-39	12-May-05	16	C	Temperature, Bottom
LA-39	9-Jun-05	16	C	Temperature, Bottom
LA-39	15-Sep-05	16	C	Temperature, Bottom
LA-39	13-Oct-05	16	C	Temperature, Bottom
LA-39	16-Nov-05	16	C	Temperature, Bottom
LA-39	17-Apr-08	16.00	°C	Temperature, Bottom
LA-39	15-May-08	16.00	°C	Temperature, Bottom
LA-39	19-Jun-03	16.5	C	Temperature, Bottom
LA-39	11-Aug-05	16.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	17-Aug-06	16.5	C	Temperature, Bottom
LA-39	15-Nov-06	16.8	C	Temperature, Bottom
LA-39	5-Dec-00	17	C	Temperature, Bottom
LA-39	11-Jan-01	17	C	Temperature, Bottom
LA-39	6-Jul-01	17	C	Temperature, Bottom
LA-39	5-Nov-01	17	C	Temperature, Bottom
LA-39	9-Dec-02	17	C	Temperature, Bottom
LA-39	7-Aug-03	17	C	Temperature, Bottom
LA-39	19-Nov-03	17	C	Temperature, Bottom
LA-39	12-May-04	17	C	Temperature, Bottom
LA-39	12-Jun-08	17.00	°C	Temperature, Bottom
LA-39	10-Nov-04	17.5	C	Temperature, Bottom
LA-39	15-Jun-06	17.5	C	Temperature, Bottom
LA-39	21-Sep-06	17.5	C	Temperature, Bottom
LA-39	10-Jan-00	18	C	Temperature, Bottom
LA-39	15-Sep-00	18	C	Temperature, Bottom
LA-39	18-Jul-01	18	C	Temperature, Bottom
LA-39	23-Aug-01	18	C	Temperature, Bottom
LA-39	10-Dec-01	18	C	Temperature, Bottom
LA-39	20-Jun-02	18	C	Temperature, Bottom
LA-39	31-Jul-02	18	C	Temperature, Bottom
LA-39	10-Jul-03	18	C	Temperature, Bottom
LA-39	16-Jun-04	18	C	Temperature, Bottom
LA-39	18-Aug-04	18	C	Temperature, Bottom
LA-39	13-Oct-04	18	C	Temperature, Bottom
LA-39	18-Jul-07	18.00	°C	Temperature, Bottom
LA-39	9-Aug-07	18.00	°C	Temperature, Bottom
LA-39	29-Aug-02	18.5	C	Temperature, Bottom
LA-39	16-Jun-00	19	C	Temperature, Bottom
LA-39	13-Sep-01	19	C	Temperature, Bottom
LA-39	9-Oct-03	19	C	Temperature, Bottom
LA-39	21-Jul-04	19	C	Temperature, Bottom
LA-39	30-Aug-00	19.5	C	Temperature, Bottom
LA-39	10-Sep-03	19.5	C	Temperature, Bottom
LA-39	20-Jul-06	19.5	C	Temperature, Bottom
LA-39	13-Jul-00	20	C	Temperature, Bottom
LA-39	15-Sep-04	20.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	17-Jan-08	13.00	°C	Temperature, Bottom
LA-41	14-Feb-08	13.10	°C	Temperature, Bottom
LA-41	25-Jan-07	13.50	C	Temperature, Bottom
LA-41	25-Jan-07	13.5	C	Temperature, Bottom
LA-41	20-Mar-08	13.50	°C	Temperature, Bottom
LA-41	7-Feb-07	13.80	°C	Temperature, Bottom
LA-41	15-Feb-01	14	C	Temperature, Bottom
LA-41	25-Feb-04	14	C	Temperature, Bottom
LA-41	22-Dec-04	14	C	Temperature, Bottom
LA-41	12-Jan-06	14	C	Temperature, Bottom
LA-41	16-May-07	14.00	°C	Temperature, Bottom
LA-41	19-Dec-07	14.00	°C	Temperature, Bottom
LA-41	25-Feb-00	14.4	C	Temperature, Bottom
LA-41	25-Jan-01	14.5	C	Temperature, Bottom
LA-41	19-Dec-02	14.5	C	Temperature, Bottom
LA-41	4-Sep-03	14.5	C	Temperature, Bottom
LA-41	21-Jan-04	14.5	C	Temperature, Bottom
LA-41	8-Dec-05	14.5	C	Temperature, Bottom
LA-41	12-Apr-07	14.50	°C	Temperature, Bottom
LA-41	17-Apr-08	14.50	°C	Temperature, Bottom
LA-41	13-Dec-01	15	C	Temperature, Bottom
LA-41	17-Jan-02	15	C	Temperature, Bottom
LA-41	14-Mar-02	15	C	Temperature, Bottom
LA-41	4-Oct-02	15	C	Temperature, Bottom
LA-41	16-Jan-03	15	C	Temperature, Bottom
LA-41	13-Mar-03	15	C	Temperature, Bottom
LA-41	20-Jan-05	15	C	Temperature, Bottom
LA-41	10-Feb-05	15	C	Temperature, Bottom
LA-41	16-Feb-06	15	C	Temperature, Bottom
LA-41	13-Apr-06	15	C	Temperature, Bottom
LA-41	15-Mar-07	15.00	°C	Temperature, Bottom
LA-41	11-May-06	15.2	C	Temperature, Bottom
LA-41	3-Oct-00	15.5	C	Temperature, Bottom
LA-41	29-Nov-00	15.5	C	Temperature, Bottom
LA-41	13-Apr-00	16	C	Temperature, Bottom
LA-41	27-Mar-01	16	C	Temperature, Bottom
LA-41	19-Apr-01	16	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	21-Feb-02	16	C	Temperature, Bottom
LA-41	16-May-02	16	C	Temperature, Bottom
LA-41	19-Feb-03	16	C	Temperature, Bottom
LA-41	4-Dec-03	16	C	Temperature, Bottom
LA-41	17-Mar-04	16	C	Temperature, Bottom
LA-41	14-Apr-04	16	C	Temperature, Bottom
LA-41	10-Mar-05	16	C	Temperature, Bottom
LA-41	7-Jul-05	16	C	Temperature, Bottom
LA-41	24-Oct-07	16.00	°C	Temperature, Bottom
LA-41	15-Nov-07	16.00	°C	Temperature, Bottom
LA-41	13-Nov-02	16.5	C	Temperature, Bottom
LA-41	12-May-05	16.5	C	Temperature, Bottom
LA-41	15-Sep-05	16.5	C	Temperature, Bottom
LA-41	11-Jan-01	17	C	Temperature, Bottom
LA-41	14-May-03	17	C	Temperature, Bottom
LA-41	13-Oct-05	17	C	Temperature, Bottom
LA-41	16-Nov-05	17	C	Temperature, Bottom
LA-41	15-Nov-06	17	C	Temperature, Bottom
LA-41	15-May-08	17.00	°C	Temperature, Bottom
LA-41	10-Dec-01	17.5	C	Temperature, Bottom
LA-41	19-Nov-03	17.5	C	Temperature, Bottom
LA-41	10-Jan-00	18	C	Temperature, Bottom
LA-41	5-Dec-00	18	C	Temperature, Bottom
LA-41	18-Jul-01	18	C	Temperature, Bottom
LA-41	5-Nov-01	18	C	Temperature, Bottom
LA-41	19-Jun-03	18	C	Temperature, Bottom
LA-41	7-Aug-03	18	C	Temperature, Bottom
LA-41	12-May-04	18	C	Temperature, Bottom
LA-41	10-Nov-04	18	C	Temperature, Bottom
LA-41	9-Jun-05	18	C	Temperature, Bottom
LA-41	17-Aug-06	18	C	Temperature, Bottom
LA-41	6-Jul-01	18.5	C	Temperature, Bottom
LA-41	10-Mar-02	18.5	C	Temperature, Bottom
LA-41	29-Aug-02	18.5	C	Temperature, Bottom
LA-41	9-Dec-02	18.5	C	Temperature, Bottom
LA-41	16-Jun-04	18.5	C	Temperature, Bottom
LA-41	12-Jun-08	18.80	°C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	21-Sep-06	18.9	C	Temperature, Bottom
LA-41	9-Oct-03	19	C	Temperature, Bottom
LA-41	18-Aug-04	19	C	Temperature, Bottom
LA-41	13-Oct-04	19	C	Temperature, Bottom
LA-41	15-Jun-06	19	C	Temperature, Bottom
LA-41	18-Jul-07	19.80	°C	Temperature, Bottom
LA-41	16-Jun-00	20	C	Temperature, Bottom
LA-41	30-Aug-00	20	C	Temperature, Bottom
LA-41	15-Sep-00	20	C	Temperature, Bottom
LA-41	15-Sep-00	20	C	Temperature, Bottom
LA-41	23-Aug-01	20	C	Temperature, Bottom
LA-41	20-Jun-02	20	C	Temperature, Bottom
LA-41	21-Jul-04	20	C	Temperature, Bottom
LA-41	11-Aug-05	20	C	Temperature, Bottom
LA-41	9-Aug-07	20.00	°C	Temperature, Bottom
LA-41	10-Jul-03	20.5	C	Temperature, Bottom
LA-41	15-Sep-04	20.5	C	Temperature, Bottom
LA-41	13-Jul-00	21	C	Temperature, Bottom
LA-41	13-Sep-01	21	C	Temperature, Bottom
LA-41	31-Jul-02	21	C	Temperature, Bottom
LA-41	20-Jul-06	21	C	Temperature, Bottom
LA-41	10-Sep-03	22.5	C	Temperature, Bottom
LA-44	14-Feb-08	12.90	°C	Temperature, Bottom
LA-44	17-Jan-08	13.00	°C	Temperature, Bottom
LA-44	16-May-07	13.50	°C	Temperature, Bottom
LA-44	7-Feb-07	13.80	°C	Temperature, Bottom
LA-44	15-Feb-01	14	C	Temperature, Bottom
LA-44	21-Jan-04	14	C	Temperature, Bottom
LA-44	25-Feb-04	14	C	Temperature, Bottom
LA-44	22-Dec-04	14	C	Temperature, Bottom
LA-44	12-Jan-06	14	C	Temperature, Bottom
LA-44	25-Jan-07	14.00	C	Temperature, Bottom
LA-44	25-Jan-07	14	C	Temperature, Bottom
LA-44	19-Dec-07	14.00	°C	Temperature, Bottom
LA-44	20-Mar-08	14.00	°C	Temperature, Bottom
LA-44	17-Apr-08	14.00	°C	Temperature, Bottom
LA-44	25-Feb-00	14.4	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	25-Jan-01	14.5	C	Temperature, Bottom
LA-44	4-Sep-03	14.5	C	Temperature, Bottom
LA-44	8-Dec-05	14.5	C	Temperature, Bottom
LA-44	16-Feb-06	14.8	C	Temperature, Bottom
LA-44	15-Mar-07	14.80	°C	Temperature, Bottom
LA-44	3-Oct-00	15	C	Temperature, Bottom
LA-44	21-Dec-00	15	C	Temperature, Bottom
LA-44	13-Dec-01	15	C	Temperature, Bottom
LA-44	14-Mar-02	15	C	Temperature, Bottom
LA-44	4-Oct-02	15	C	Temperature, Bottom
LA-44	19-Dec-02	15	C	Temperature, Bottom
LA-44	13-Mar-03	15	C	Temperature, Bottom
LA-44	20-Jan-05	15	C	Temperature, Bottom
LA-44	10-Feb-05	15	C	Temperature, Bottom
LA-44	13-Apr-06	15	C	Temperature, Bottom
LA-44	12-Apr-07	15.00	°C	Temperature, Bottom
LA-44	29-Nov-00	15.5	C	Temperature, Bottom
LA-44	17-Jan-02	15.5	C	Temperature, Bottom
LA-44	11-May-06	15.5	C	Temperature, Bottom
LA-44	13-Apr-00	16	C	Temperature, Bottom
LA-44	27-Mar-01	16	C	Temperature, Bottom
LA-44	19-Apr-01	16	C	Temperature, Bottom
LA-44	21-Feb-02	16	C	Temperature, Bottom
LA-44	16-May-02	16	C	Temperature, Bottom
LA-44	16-Jan-03	16	C	Temperature, Bottom
LA-44	19-Feb-03	16	C	Temperature, Bottom
LA-44	4-Dec-03	16	C	Temperature, Bottom
LA-44	17-Mar-04	16	C	Temperature, Bottom
LA-44	14-Apr-04	16	C	Temperature, Bottom
LA-44	10-Mar-05	16	C	Temperature, Bottom
LA-44	27-Apr-05	16	C	Temperature, Bottom
LA-44	12-May-05	16	C	Temperature, Bottom
LA-44	7-Jul-05	16	C	Temperature, Bottom
LA-44	15-Nov-07	16.00	°C	Temperature, Bottom
LA-44	13-Nov-02	16.5	C	Temperature, Bottom
LA-44	15-Sep-05	16.5	C	Temperature, Bottom
LA-44	24-Oct-07	16.80	°C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	5-Dec-00	17	C	Temperature, Bottom
LA-44	14-May-03	17	C	Temperature, Bottom
LA-44	13-Oct-05	17	C	Temperature, Bottom
LA-44	16-Nov-05	17	C	Temperature, Bottom
LA-44	15-Nov-06	17	C	Temperature, Bottom
LA-44	15-May-08	17.00	°C	Temperature, Bottom
LA-44	11-Jan-01	17.5	C	Temperature, Bottom
LA-44	7-Aug-03	17.5	C	Temperature, Bottom
LA-44	19-Nov-03	17.5	C	Temperature, Bottom
LA-44	18-Jul-01	18	C	Temperature, Bottom
LA-44	5-Nov-01	18	C	Temperature, Bottom
LA-44	10-Mar-02	18	C	Temperature, Bottom
LA-44	19-Jun-03	18	C	Temperature, Bottom
LA-44	13-Oct-04	18	C	Temperature, Bottom
LA-44	10-Nov-04	18	C	Temperature, Bottom
LA-44	9-Jun-05	18	C	Temperature, Bottom
LA-44	11-Aug-05	18	C	Temperature, Bottom
LA-44	17-Aug-06	18	C	Temperature, Bottom
LA-44	10-Jan-00	18.5	C	Temperature, Bottom
LA-44	10-Dec-01	18.5	C	Temperature, Bottom
LA-44	9-Oct-03	18.5	C	Temperature, Bottom
LA-44	12-May-04	18.5	C	Temperature, Bottom
LA-44	16-Jun-04	18.5	C	Temperature, Bottom
LA-44	15-Jun-06	18.5	C	Temperature, Bottom
LA-44	21-Sep-06	18.8	C	Temperature, Bottom
LA-44	6-Jul-01	19	C	Temperature, Bottom
LA-44	20-Jun-02	19	C	Temperature, Bottom
LA-44	29-Aug-02	19	C	Temperature, Bottom
LA-44	9-Dec-02	19	C	Temperature, Bottom
LA-44	12-Jun-08	19.00	°C	Temperature, Bottom
LA-44	23-Aug-01	19.5	C	Temperature, Bottom
LA-44	18-Aug-04	19.5	C	Temperature, Bottom
LA-44	18-Jul-07	19.50	°C	Temperature, Bottom
LA-44	16-Jun-00	20	C	Temperature, Bottom
LA-44	13-Jul-00	20	C	Temperature, Bottom
LA-44	15-Sep-00	20	C	Temperature, Bottom
LA-44	21-Jul-04	20	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	20-Jul-06	20	C	Temperature, Bottom
LA-44	30-Aug-00	20.5	C	Temperature, Bottom
LA-44	31-Jul-02	20.5	C	Temperature, Bottom
LA-44	10-Jul-03	20.5	C	Temperature, Bottom
LA-44	15-Sep-04	20.5	C	Temperature, Bottom
LA-44	9-Aug-07	20.50	°C	Temperature, Bottom
LA-44	13-Sep-01	21	C	Temperature, Bottom
LA-44	10-Sep-03	21	C	Temperature, Bottom
LA-46	17-Jan-08	13.00	°C	Temperature, Bottom
LA-46	14-Feb-08	13.00	°C	Temperature, Bottom
LA-46	25-Feb-04	14	C	Temperature, Bottom
LA-46	22-Dec-04	14	C	Temperature, Bottom
LA-46	25-Jan-07	14.00	C	Temperature, Bottom
LA-46	25-Jan-07	14	C	Temperature, Bottom
LA-46	7-Feb-07	14.00	°C	Temperature, Bottom
LA-46	16-May-07	14.00	°C	Temperature, Bottom
LA-46	19-Dec-07	14.00	°C	Temperature, Bottom
LA-46	20-Mar-08	14.00	°C	Temperature, Bottom
LA-46	15-Feb-01	14.5	C	Temperature, Bottom
LA-46	21-Jan-04	14.5	C	Temperature, Bottom
LA-46	10-Feb-05	14.5	C	Temperature, Bottom
LA-46	8-Dec-05	14.5	C	Temperature, Bottom
LA-46	12-Jan-06	14.5	C	Temperature, Bottom
LA-46	25-Feb-00	14.8	C	Temperature, Bottom
LA-46	16-Feb-06	14.8	C	Temperature, Bottom
LA-46	15-Mar-07	14.90	°C	Temperature, Bottom
LA-46	25-Jan-01	15	C	Temperature, Bottom
LA-46	13-Dec-01	15	C	Temperature, Bottom
LA-46	19-Dec-02	15	C	Temperature, Bottom
LA-46	4-Sep-03	15	C	Temperature, Bottom
LA-46	20-Jan-05	15	C	Temperature, Bottom
LA-46	13-Apr-06	15	C	Temperature, Bottom
LA-46	12-Apr-07	15.00	°C	Temperature, Bottom
LA-46	11-May-06	15.2	C	Temperature, Bottom
LA-46	3-Oct-00	15.5	C	Temperature, Bottom
LA-46	21-Dec-00	15.5	C	Temperature, Bottom
LA-46	17-Jan-02	15.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	14-Mar-02	15.5	C	Temperature, Bottom
LA-46	16-Jan-03	15.5	C	Temperature, Bottom
LA-46	29-Nov-00	16	C	Temperature, Bottom
LA-46	27-Mar-01	16	C	Temperature, Bottom
LA-46	19-Apr-01	16	C	Temperature, Bottom
LA-46	16-May-02	16	C	Temperature, Bottom
LA-46	4-Oct-02	16	C	Temperature, Bottom
LA-46	19-Feb-03	16	C	Temperature, Bottom
LA-46	13-Mar-03	16	C	Temperature, Bottom
LA-46	4-Dec-03	16	C	Temperature, Bottom
LA-46	17-Mar-04	16	C	Temperature, Bottom
LA-46	14-Apr-04	16	C	Temperature, Bottom
LA-46	10-Mar-05	16	C	Temperature, Bottom
LA-46	7-Jul-05	16	C	Temperature, Bottom
LA-46	24-Oct-07	16.00	°C	Temperature, Bottom
LA-46	15-Nov-07	16.00	°C	Temperature, Bottom
LA-46	17-Apr-08	16.00	°C	Temperature, Bottom
LA-46	13-Apr-00	16.5	C	Temperature, Bottom
LA-46	21-Feb-02	16.5	C	Temperature, Bottom
LA-46	13-Nov-02	16.5	C	Temperature, Bottom
LA-46	27-Apr-05	16.5	C	Temperature, Bottom
LA-46	12-May-05	16.5	C	Temperature, Bottom
LA-46	14-May-03	17	C	Temperature, Bottom
LA-46	7-Aug-03	17	C	Temperature, Bottom
LA-46	15-Sep-05	17	C	Temperature, Bottom
LA-46	13-Oct-05	17	C	Temperature, Bottom
LA-46	16-Nov-05	17	C	Temperature, Bottom
LA-46	15-May-08	17.00	°C	Temperature, Bottom
LA-46	5-Dec-00	17.5	C	Temperature, Bottom
LA-46	19-Jun-03	17.5	C	Temperature, Bottom
LA-46	15-Nov-06	17.5	C	Temperature, Bottom
LA-46	10-Jan-00	18	C	Temperature, Bottom
LA-46	11-Jan-01	18	C	Temperature, Bottom
LA-46	5-Nov-01	18	C	Temperature, Bottom
LA-46	10-Mar-02	18	C	Temperature, Bottom
LA-46	19-Nov-03	18	C	Temperature, Bottom
LA-46	10-Nov-04	18	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	9-Jun-05	18	C	Temperature, Bottom
LA-46	11-Aug-05	18	C	Temperature, Bottom
LA-46	17-Aug-06	18	C	Temperature, Bottom
LA-46	18-Jul-01	18.5	C	Temperature, Bottom
LA-46	12-May-04	18.5	C	Temperature, Bottom
LA-46	16-Jun-04	18.5	C	Temperature, Bottom
LA-46	6-Jul-01	19	C	Temperature, Bottom
LA-46	10-Dec-01	19	C	Temperature, Bottom
LA-46	9-Dec-02	19	C	Temperature, Bottom
LA-46	9-Oct-03	19	C	Temperature, Bottom
LA-46	18-Aug-04	19	C	Temperature, Bottom
LA-46	13-Oct-04	19	C	Temperature, Bottom
LA-46	15-Jun-06	19	C	Temperature, Bottom
LA-46	21-Sep-06	19	C	Temperature, Bottom
LA-46	12-Jun-08	19.00	°C	Temperature, Bottom
LA-46	20-Jun-02	19.5	C	Temperature, Bottom
LA-46	29-Aug-02	19.5	C	Temperature, Bottom
LA-46	18-Jul-07	19.50	°C	Temperature, Bottom
LA-46	15-Sep-00	20	C	Temperature, Bottom
LA-46	23-Aug-01	20	C	Temperature, Bottom
LA-46	31-Jul-02	20	C	Temperature, Bottom
LA-46	9-Aug-07	20.00	°C	Temperature, Bottom
LA-46	16-Jun-00	20.5	C	Temperature, Bottom
LA-46	13-Jul-00	20.5	C	Temperature, Bottom
LA-46	30-Aug-00	20.5	C	Temperature, Bottom
LA-46	10-Jul-03	20.5	C	Temperature, Bottom
LA-46	21-Jul-04	20.5	C	Temperature, Bottom
LA-46	15-Sep-04	20.5	C	Temperature, Bottom
LA-46	13-Sep-01	21	C	Temperature, Bottom
LA-46	20-Jul-06	21	C	Temperature, Bottom
LA-46	10-Sep-03	22	C	Temperature, Bottom
LA-47	14-Feb-08	12.80	°C	Temperature, Bottom
LA-47	17-Jan-08	12.90	°C	Temperature, Bottom
LA-47	25-Jan-07	13.50	C	Temperature, Bottom
LA-47	25-Jan-07	13.5	C	Temperature, Bottom
LA-47	19-Dec-07	13.80	°C	Temperature, Bottom
LA-47	25-Feb-04	14	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	22-Dec-04	14	C	Temperature, Bottom
LA-47	7-Feb-07	14.00	°C	Temperature, Bottom
LA-47	16-May-07	14.00	°C	Temperature, Bottom
LA-47	20-Mar-08	14.00	°C	Temperature, Bottom
LA-47	25-Feb-00	14.4	C	Temperature, Bottom
LA-47	25-Jan-01	14.5	C	Temperature, Bottom
LA-47	15-Feb-01	14.5	C	Temperature, Bottom
LA-47	21-Jan-04	14.5	C	Temperature, Bottom
LA-47	8-Dec-05	14.5	C	Temperature, Bottom
LA-47	12-Jan-06	14.5	C	Temperature, Bottom
LA-47	16-Feb-06	14.5	C	Temperature, Bottom
LA-47	15-Mar-07	14.80	°C	Temperature, Bottom
LA-47	21-Dec-00	15	C	Temperature, Bottom
LA-47	13-Dec-01	15	C	Temperature, Bottom
LA-47	17-Jan-02	15	C	Temperature, Bottom
LA-47	4-Oct-02	15	C	Temperature, Bottom
LA-47	19-Dec-02	15	C	Temperature, Bottom
LA-47	16-Jan-03	15	C	Temperature, Bottom
LA-47	4-Sep-03	15	C	Temperature, Bottom
LA-47	4-Dec-03	15	C	Temperature, Bottom
LA-47	10-Feb-05	15	C	Temperature, Bottom
LA-47	13-Apr-06	15	C	Temperature, Bottom
LA-47	11-May-06	15	C	Temperature, Bottom
LA-47	12-Apr-07	15.00	°C	Temperature, Bottom
LA-47	17-Apr-08	15.10	°C	Temperature, Bottom
LA-47	29-Nov-00	15.5	C	Temperature, Bottom
LA-47	14-Mar-02	15.5	C	Temperature, Bottom
LA-47	13-Mar-03	15.5	C	Temperature, Bottom
LA-47	20-Jan-05	15.5	C	Temperature, Bottom
LA-47	3-Oct-00	16	C	Temperature, Bottom
LA-47	27-Mar-01	16	C	Temperature, Bottom
LA-47	19-Apr-01	16	C	Temperature, Bottom
LA-47	21-Feb-02	16	C	Temperature, Bottom
LA-47	16-May-02	16	C	Temperature, Bottom
LA-47	19-Feb-03	16	C	Temperature, Bottom
LA-47	17-Mar-04	16	C	Temperature, Bottom
LA-47	10-Mar-05	16	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	7-Jul-05	16	C	Temperature, Bottom
LA-47	15-Nov-07	16.00	°C	Temperature, Bottom
LA-47	13-Apr-00	16.5	C	Temperature, Bottom
LA-47	13-Nov-02	16.5	C	Temperature, Bottom
LA-47	14-Apr-04	16.5	C	Temperature, Bottom
LA-47	27-Apr-05	16.5	C	Temperature, Bottom
LA-47	12-May-05	16.5	C	Temperature, Bottom
LA-47	24-Oct-07	16.50	°C	Temperature, Bottom
LA-47	10-Mar-02	17	C	Temperature, Bottom
LA-47	14-May-03	17	C	Temperature, Bottom
LA-47	15-Sep-05	17	C	Temperature, Bottom
LA-47	13-Oct-05	17	C	Temperature, Bottom
LA-47	16-Nov-05	17	C	Temperature, Bottom
LA-47	15-May-08	17.10	°C	Temperature, Bottom
LA-47	5-Dec-00	17.5	C	Temperature, Bottom
LA-47	11-Jan-01	17.5	C	Temperature, Bottom
LA-47	19-Jun-03	17.5	C	Temperature, Bottom
LA-47	7-Aug-03	17.5	C	Temperature, Bottom
LA-47	19-Nov-03	17.5	C	Temperature, Bottom
LA-47	10-Nov-04	17.5	C	Temperature, Bottom
LA-47	10-Jan-00	18	C	Temperature, Bottom
LA-47	5-Nov-01	18	C	Temperature, Bottom
LA-47	12-May-04	18	C	Temperature, Bottom
LA-47	13-Oct-04	18	C	Temperature, Bottom
LA-47	9-Jun-05	18	C	Temperature, Bottom
LA-47	17-Aug-06	18	C	Temperature, Bottom
LA-47	15-Nov-06	18	C	Temperature, Bottom
LA-47	18-Jul-01	18.5	C	Temperature, Bottom
LA-47	16-Jun-04	18.5	C	Temperature, Bottom
LA-47	11-Aug-05	18.5	C	Temperature, Bottom
LA-47	6-Jul-01	19	C	Temperature, Bottom
LA-47	10-Dec-01	19	C	Temperature, Bottom
LA-47	20-Jun-02	19	C	Temperature, Bottom
LA-47	29-Aug-02	19	C	Temperature, Bottom
LA-47	9-Dec-02	19	C	Temperature, Bottom
LA-47	9-Oct-03	19	C	Temperature, Bottom
LA-47	21-Sep-06	19	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	18-Jul-07	19.00	°C	Temperature, Bottom
LA-47	12-Jun-08	19.10	°C	Temperature, Bottom
LA-47	31-Jul-02	19.5	C	Temperature, Bottom
LA-47	18-Aug-04	19.5	C	Temperature, Bottom
LA-47	10-Jul-03	20	C	Temperature, Bottom
LA-47	15-Jun-06	20	C	Temperature, Bottom
LA-47	16-Jun-00	20.5	C	Temperature, Bottom
LA-47	30-Aug-00	20.5	C	Temperature, Bottom
LA-47	21-Jul-04	20.5	C	Temperature, Bottom
LA-47	9-Aug-07	20.50	°C	Temperature, Bottom
LA-47	13-Jul-00	21	C	Temperature, Bottom
LA-47	15-Sep-00	21	C	Temperature, Bottom
LA-47	23-Aug-01	21	C	Temperature, Bottom
LA-47	13-Sep-01	21	C	Temperature, Bottom
LA-47	10-Sep-03	21	C	Temperature, Bottom
LA-47	15-Sep-04	21	C	Temperature, Bottom
LA-47	20-Jul-06	21	C	Temperature, Bottom
LA-49	15-Feb-01	14	C	Temperature, Bottom
LA-49	25-Feb-04	14	C	Temperature, Bottom
LA-49	22-Dec-04	14	C	Temperature, Bottom
LA-49	12-Jan-06	14	C	Temperature, Bottom
LA-49	16-Feb-06	14.2	C	Temperature, Bottom
LA-49	25-Feb-00	14.4	C	Temperature, Bottom
LA-49	25-Jan-01	14.5	C	Temperature, Bottom
LA-49	8-Dec-05	14.5	C	Temperature, Bottom
LA-49	13-Apr-06	14.5	C	Temperature, Bottom
LA-49	21-Dec-00	15	C	Temperature, Bottom
LA-49	13-Dec-01	15	C	Temperature, Bottom
LA-49	4-Oct-02	15	C	Temperature, Bottom
LA-49	19-Dec-02	15	C	Temperature, Bottom
LA-49	16-Jan-03	15	C	Temperature, Bottom
LA-49	13-Mar-03	15	C	Temperature, Bottom
LA-49	4-Sep-03	15	C	Temperature, Bottom
LA-49	4-Dec-03	15	C	Temperature, Bottom
LA-49	21-Jan-04	15	C	Temperature, Bottom
LA-49	10-Feb-05	15	C	Temperature, Bottom
LA-49	3-Oct-00	15.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-49	17-Jan-02	15.5	C	Temperature, Bottom
LA-49	20-Jan-05	15.5	C	Temperature, Bottom
LA-49	29-Nov-00	16	C	Temperature, Bottom
LA-49	27-Mar-01	16	C	Temperature, Bottom
LA-49	19-Apr-01	16	C	Temperature, Bottom
LA-49	14-Mar-02	16	C	Temperature, Bottom
LA-49	16-May-02	16	C	Temperature, Bottom
LA-49	19-Feb-03	16	C	Temperature, Bottom
LA-49	17-Mar-04	16	C	Temperature, Bottom
LA-49	10-Mar-05	16	C	Temperature, Bottom
LA-49	11-May-06	16.1	C	Temperature, Bottom
LA-49	13-Apr-00	16.5	C	Temperature, Bottom
LA-49	13-Nov-02	16.5	C	Temperature, Bottom
LA-49	14-Apr-04	16.5	C	Temperature, Bottom
LA-49	27-Apr-05	16.5	C	Temperature, Bottom
LA-49	11-Jan-01	17	C	Temperature, Bottom
LA-49	21-Feb-02	17	C	Temperature, Bottom
LA-49	14-May-03	17	C	Temperature, Bottom
LA-49	19-Nov-03	17	C	Temperature, Bottom
LA-49	12-May-05	17	C	Temperature, Bottom
LA-49	7-Jul-05	17	C	Temperature, Bottom
LA-49	16-Nov-05	17	C	Temperature, Bottom
LA-49	7-Aug-03	17.5	C	Temperature, Bottom
LA-49	15-Sep-05	17.5	C	Temperature, Bottom
LA-49	13-Oct-05	17.5	C	Temperature, Bottom
LA-49	15-Nov-06	17.5	C	Temperature, Bottom
LA-49	5-Dec-00	18	C	Temperature, Bottom
LA-49	5-Nov-01	18	C	Temperature, Bottom
LA-49	10-Mar-02	18	C	Temperature, Bottom
LA-49	12-May-04	18	C	Temperature, Bottom
LA-49	13-Oct-04	18	C	Temperature, Bottom
LA-49	10-Nov-04	18	C	Temperature, Bottom
LA-49	10-Jan-00	18.5	C	Temperature, Bottom
LA-49	18-Jul-01	18.5	C	Temperature, Bottom
LA-49	10-Dec-01	18.5	C	Temperature, Bottom
LA-49	19-Jun-03	18.5	C	Temperature, Bottom
LA-49	16-Jun-04	18.5	C	Temperature, Bottom

Port of Los Angeles - Inner Harbor Water Quality Data

LA-49	9-Jun-05	18.5	C	Temperature, Bottom
LA-49	6-Jul-01	19	C	Temperature, Bottom
LA-49	20-Jun-02	19	C	Temperature, Bottom
LA-49	9-Dec-02	19	C	Temperature, Bottom
LA-49	9-Oct-03	19	C	Temperature, Bottom
LA-49	11-Aug-05	19	C	Temperature, Bottom
LA-49	15-Jun-06	19	C	Temperature, Bottom
LA-49	17-Aug-06	19	C	Temperature, Bottom
LA-49	21-Sep-06	19	C	Temperature, Bottom
LA-49	29-Aug-02	19.5	C	Temperature, Bottom
LA-49	18-Aug-04	19.5	C	Temperature, Bottom
LA-49	16-Jun-00	20	C	Temperature, Bottom
LA-49	15-Sep-00	20	C	Temperature, Bottom
LA-49	31-Jul-02	20	C	Temperature, Bottom
LA-49	21-Jul-04	20	C	Temperature, Bottom
LA-49	10-Jul-03	20.5	C	Temperature, Bottom
LA-49	13-Jul-00	21	C	Temperature, Bottom
LA-49	30-Aug-00	21	C	Temperature, Bottom
LA-49	13-Sep-01	21	C	Temperature, Bottom
LA-49	15-Sep-04	21	C	Temperature, Bottom
LA-49	20-Jul-06	21	C	Temperature, Bottom
LA-49	10-Sep-03	22	C	Temperature, Bottom
LA-30	4-Sep-03	13	C	Temperature, Surface
LA-30	17-Jan-08	13.00	°C	Temperature, Surface
LA-30	14-Feb-08	13.00	°C	Temperature, Surface
LA-30	14-May-03	13.5	C	Temperature, Surface
LA-30	21-Jan-04	13.5	C	Temperature, Surface
LA-30	25-Feb-04	13.5	C	Temperature, Surface
LA-30	25-Jan-01	14	C	Temperature, Surface
LA-30	17-Jan-02	14	C	Temperature, Surface
LA-30	16-Feb-06	14	C	Temperature, Surface
LA-30	25-Jan-07	14.00	C	Temperature, Surface
LA-30	25-Jan-07	14	C	Temperature, Surface
LA-30	7-Feb-07	14.00	°C	Temperature, Surface
LA-30	16-May-07	14.00	°C	Temperature, Surface
LA-30	19-Dec-07	14.00	°C	Temperature, Surface
LA-30	20-Mar-08	14.00	°C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	17-Apr-08	14.00	°C	Temperature, Surface
LA-30	21-Dec-00	14.5	C	Temperature, Surface
LA-30	15-Feb-01	14.5	C	Temperature, Surface
LA-30	13-Dec-01	14.5	C	Temperature, Surface
LA-30	19-Feb-03	14.5	C	Temperature, Surface
LA-30	22-Dec-04	14.5	C	Temperature, Surface
LA-30	8-Dec-05	14.5	C	Temperature, Surface
LA-30	13-Apr-06	14.5	C	Temperature, Surface
LA-30	15-Mar-07	14.50	°C	Temperature, Surface
LA-30	25-Feb-00	14.8	C	Temperature, Surface
LA-30	27-Mar-01	15	C	Temperature, Surface
LA-30	19-Apr-01	15	C	Temperature, Surface
LA-30	21-Feb-02	15	C	Temperature, Surface
LA-30	14-Mar-02	15	C	Temperature, Surface
LA-30	4-Oct-02	15	C	Temperature, Surface
LA-30	16-Jan-03	15	C	Temperature, Surface
LA-30	4-Dec-03	15	C	Temperature, Surface
LA-30	10-Feb-05	15	C	Temperature, Surface
LA-30	27-Apr-05	15	C	Temperature, Surface
LA-30	7-Jul-05	15	C	Temperature, Surface
LA-30	12-Jan-06	15	C	Temperature, Surface
LA-30	11-May-06	15	C	Temperature, Surface
LA-30	3-Oct-00	15.5	C	Temperature, Surface
LA-30	19-Dec-02	15.5	C	Temperature, Surface
LA-30	20-Jan-05	15.5	C	Temperature, Surface
LA-30	12-Apr-07	15.50	°C	Temperature, Surface
LA-30	24-Oct-07	15.50	°C	Temperature, Surface
LA-30	13-Apr-00	16	C	Temperature, Surface
LA-30	29-Nov-00	16	C	Temperature, Surface
LA-30	13-Nov-02	16	C	Temperature, Surface
LA-30	10-Sep-03	16	C	Temperature, Surface
LA-30	9-Oct-03	16	C	Temperature, Surface
LA-30	14-Apr-04	16	C	Temperature, Surface
LA-30	10-Mar-05	16	C	Temperature, Surface
LA-30	15-Sep-05	16	C	Temperature, Surface
LA-30	15-Nov-07	16.00	°C	Temperature, Surface
LA-30	19-Nov-03	16.5	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	11-Jan-01	17	C	Temperature, Surface					
LA-30	18-Jul-01	17	C	Temperature, Surface					
LA-30	16-May-02	17	C	Temperature, Surface					
LA-30	9-Dec-02	17	C	Temperature, Surface					
LA-30	13-Mar-03	17	C	Temperature, Surface					
LA-30	17-Mar-04	17	C	Temperature, Surface					
LA-30	12-May-04	17	C	Temperature, Surface					
LA-30	12-May-05	17	C	Temperature, Surface					
LA-30	13-Oct-05	17	C	Temperature, Surface					
LA-30	16-Nov-05	17	C	Temperature, Surface					
LA-30	15-May-08	17.00	°C	Temperature, Surface					
LA-30	6-Jul-01	17.5	C	Temperature, Surface					
LA-30	5-Nov-01	17.5	C	Temperature, Surface					
LA-30	10-Mar-02	17.5	C	Temperature, Surface					
LA-30	17-Aug-06	17.5	C	Temperature, Surface					
LA-30	15-Nov-06	17.5	C	Temperature, Surface					
LA-30	10-Jan-00	18	C	Temperature, Surface					
LA-30	5-Dec-00	18	C	Temperature, Surface					
LA-30	10-Dec-01	18	C	Temperature, Surface					
LA-30	20-Jun-02	18	C	Temperature, Surface					
LA-30	29-Aug-02	18	C	Temperature, Surface					
LA-30	18-Aug-04	18	C	Temperature, Surface					
LA-30	10-Nov-04	18	C	Temperature, Surface					
LA-30	9-Jun-05	18	C	Temperature, Surface					
LA-30	11-Aug-05	18	C	Temperature, Surface					
LA-30	15-Jun-06	18	C	Temperature, Surface					
LA-30	21-Sep-06	18	C	Temperature, Surface					
LA-30	12-Jun-08	18.60	°C	Temperature, Surface	17.5	18.6	17.9125	16	2007-2008
LA-30	15-Sep-00	19	C	Temperature, Surface					
LA-30	23-Aug-01	19	C	Temperature, Surface					
LA-30	31-Jul-02	19	C	Temperature, Surface					
LA-30	19-Jun-03	19	C	Temperature, Surface					
LA-30	7-Aug-03	19	C	Temperature, Surface					
LA-30	16-Jun-04	19	C	Temperature, Surface					
LA-30	13-Oct-04	19	C	Temperature, Surface					
LA-30	18-Jul-07	19.00	°C	Temperature, Surface					
LA-30	30-Aug-00	19.5	C	Temperature, Surface					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	13-Sep-01	19.5	C	Temperature, Surface
LA-30	13-Jul-00	20	C	Temperature, Surface
LA-30	21-Jul-04	20	C	Temperature, Surface
LA-30	15-Sep-04	20	C	Temperature, Surface
LA-30	16-Jun-00	20.2	C	Temperature, Surface
LA-30	20-Jul-06	20.5	C	Temperature, Surface
LA-30	9-Aug-07	20.50	°C	Temperature, Surface
LA-30	10-Jul-03	21.5	C	Temperature, Surface
LA-32B	25-Jan-07	13.00	C	Temperature, Surface
LA-32B	25-Jan-07	13	C	Temperature, Surface
LA-32B	16-May-07	13.00	°C	Temperature, Surface
LA-32B	17-Jan-08	13.00	°C	Temperature, Surface
LA-32B	14-Feb-08	13.00	°C	Temperature, Surface
LA-32B	25-Jan-01	13.5	C	Temperature, Surface
LA-32B	13-Dec-01	13.5	C	Temperature, Surface
LA-32B	21-Jan-04	13.5	C	Temperature, Surface
LA-32B	18-Feb-04	13.5	C	Temperature, Surface
LA-32B	13-Apr-06	13.5	C	Temperature, Surface
LA-32B	20-Mar-08	13.50	°C	Temperature, Surface
LA-32B	25-Feb-00	13.8	C	Temperature, Surface
LA-32B	15-Feb-01	14	C	Temperature, Surface
LA-32B	17-Jan-02	14	C	Temperature, Surface
LA-32B	20-Jan-05	14	C	Temperature, Surface
LA-32B	8-Dec-05	14	C	Temperature, Surface
LA-32B	16-Feb-06	14	C	Temperature, Surface
LA-32B	7-Feb-07	14.00	°C	Temperature, Surface
LA-32B	15-Mar-07	14.00	°C	Temperature, Surface
LA-32B	19-Dec-07	14.00	°C	Temperature, Surface
LA-32B	3-Oct-00	14.5	C	Temperature, Surface
LA-32B	21-Dec-00	14.5	C	Temperature, Surface
LA-32B	19-Feb-03	14.5	C	Temperature, Surface
LA-32B	22-Dec-04	14.5	C	Temperature, Surface
LA-32B	10-Feb-05	14.5	C	Temperature, Surface
LA-32B	21-Feb-02	15	C	Temperature, Surface
LA-32B	4-Oct-02	15	C	Temperature, Surface
LA-32B	7-Jul-05	15	C	Temperature, Surface
LA-32B	12-Jan-06	15	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	12-Apr-07	15.00	°C	Temperature, Surface
LA-32B	17-Apr-08	15.00	°C	Temperature, Surface
LA-32B	11-May-06	15.4	C	Temperature, Surface
LA-32B	13-Apr-00	15.5	C	Temperature, Surface
LA-32B	29-Nov-00	15.5	C	Temperature, Surface
LA-32B	5-Dec-00	15.5	C	Temperature, Surface
LA-32B	27-Mar-01	15.5	C	Temperature, Surface
LA-32B	19-Apr-01	15.5	C	Temperature, Surface
LA-32B	13-Nov-02	15.5	C	Temperature, Surface
LA-32B	10-Sep-03	15.5	C	Temperature, Surface
LA-32B	12-May-05	15.5	C	Temperature, Surface
LA-32B	24-Oct-07	15.50	°C	Temperature, Surface
LA-32B	15-Nov-07	15.50	°C	Temperature, Surface
LA-32B	16-May-02	16	C	Temperature, Surface
LA-32B	13-Mar-03	16	C	Temperature, Surface
LA-32B	19-Nov-03	16	C	Temperature, Surface
LA-32B	4-Dec-03	16	C	Temperature, Surface
LA-32B	14-Apr-04	16	C	Temperature, Surface
LA-32B	27-Apr-05	16	C	Temperature, Surface
LA-32B	13-Oct-05	16	C	Temperature, Surface
LA-32B	16-Nov-05	16	C	Temperature, Surface
LA-32B	10-Mar-02	16.5	C	Temperature, Surface
LA-32B	9-Oct-03	16.5	C	Temperature, Surface
LA-32B	10-Mar-05	16.5	C	Temperature, Surface
LA-32B	15-Sep-05	16.5	C	Temperature, Surface
LA-32B	11-Jan-01	17	C	Temperature, Surface
LA-32B	9-Dec-02	17	C	Temperature, Surface
LA-32B	17-Mar-04	17	C	Temperature, Surface
LA-32B	12-May-04	17	C	Temperature, Surface
LA-32B	11-Aug-05	17	C	Temperature, Surface
LA-32B	15-Jun-06	17	C	Temperature, Surface
LA-32B	17-Aug-06	17	C	Temperature, Surface
LA-32B	15-Nov-06	17	C	Temperature, Surface
LA-32B	15-May-08	17.00	°C	Temperature, Surface
LA-32B	10-Jan-00	17.5	C	Temperature, Surface
LA-32B	13-Oct-04	17.5	C	Temperature, Surface
LA-32B	10-Nov-04	17.5	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	9-Jun-05	17.5	C	Temperature, Surface					
LA-32B	12-Jun-08	17.90	°C	Temperature, Surface	16.5	17.9	17.11875	16	2007-2008
LA-32B	6-Jul-01	18	C	Temperature, Surface					
LA-32B	18-Jul-01	18	C	Temperature, Surface					
LA-32B	23-Aug-01	18	C	Temperature, Surface					
LA-32B	20-Jun-02	18	C	Temperature, Surface					
LA-32B	29-Aug-02	18	C	Temperature, Surface					
LA-32B	18-Aug-04	18	C	Temperature, Surface					
LA-32B	21-Sep-06	18	C	Temperature, Surface					
LA-32B	5-Nov-01	18.5	C	Temperature, Surface					
LA-32B	10-Dec-01	18.5	C	Temperature, Surface					
LA-32B	18-Jul-07	18.50	°C	Temperature, Surface					
LA-32B	15-Sep-00	19	C	Temperature, Surface					
LA-32B	19-Jun-03	19	C	Temperature, Surface					
LA-32B	16-Jun-04	19	C	Temperature, Surface					
LA-32B	13-Jul-00	19.5	C	Temperature, Surface					
LA-32B	30-Aug-00	19.5	C	Temperature, Surface					
LA-32B	13-Sep-01	19.5	C	Temperature, Surface					
LA-32B	21-Jul-04	19.5	C	Temperature, Surface					
LA-32B	9-Aug-07	19.50	°C	Temperature, Surface					
LA-32B	16-Jun-00	19.8	C	Temperature, Surface					
LA-32B	7-Aug-03	20	C	Temperature, Surface					
LA-32B	15-Sep-04	20	C	Temperature, Surface					
LA-32B	20-Jul-06	20	C	Temperature, Surface					
LA-32B	10-Jul-03	21	C	Temperature, Surface					
LA-33	14-May-03	13	C	Temperature, Surface					
LA-33	4-Sep-03	13	C	Temperature, Surface					
LA-33	18-Feb-04	13	C	Temperature, Surface					
LA-33	13-Apr-06	13	C	Temperature, Surface					
LA-33	25-Jan-07	13.00	C	Temperature, Surface					
LA-33	25-Jan-07	13	C	Temperature, Surface					
LA-33	16-May-07	13.00	°C	Temperature, Surface					
LA-33	17-Jan-08	13.00	°C	Temperature, Surface					
LA-33	14-Feb-08	13.00	°C	Temperature, Surface					
LA-33	20-Mar-08	13.00	°C	Temperature, Surface					
LA-33	21-Jan-04	13.5	C	Temperature, Surface					
LA-33	17-Apr-08	13.50	°C	Temperature, Surface					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	15-Feb-01	14	C	Temperature, Surface
LA-33	17-Jan-02	14	C	Temperature, Surface
LA-33	19-Feb-03	14	C	Temperature, Surface
LA-33	20-Jan-05	14	C	Temperature, Surface
LA-33	7-Jul-05	14	C	Temperature, Surface
LA-33	8-Dec-05	14	C	Temperature, Surface
LA-33	16-Feb-06	14	C	Temperature, Surface
LA-33	7-Feb-07	14.00	°C	Temperature, Surface
LA-33	25-Feb-00	14.2	C	Temperature, Surface
LA-33	3-Oct-00	14.5	C	Temperature, Surface
LA-33	21-Dec-00	14.5	C	Temperature, Surface
LA-33	25-Jan-01	14.5	C	Temperature, Surface
LA-33	13-Dec-01	14.5	C	Temperature, Surface
LA-33	15-Mar-07	14.50	°C	Temperature, Surface
LA-33	19-Dec-07	14.50	°C	Temperature, Surface
LA-33	29-Nov-00	15	C	Temperature, Surface
LA-33	21-Feb-02	15	C	Temperature, Surface
LA-33	14-Mar-02	15	C	Temperature, Surface
LA-33	4-Oct-02	15	C	Temperature, Surface
LA-33	19-Dec-02	15	C	Temperature, Surface
LA-33	16-Jan-03	15	C	Temperature, Surface
LA-33	4-Dec-03	15	C	Temperature, Surface
LA-33	14-Apr-04	15	C	Temperature, Surface
LA-33	22-Dec-04	15	C	Temperature, Surface
LA-33	10-Feb-05	15	C	Temperature, Surface
LA-33	27-Apr-05	15	C	Temperature, Surface
LA-33	12-Jan-06	15	C	Temperature, Surface
LA-33	12-Apr-07	15.00	°C	Temperature, Surface
LA-33	24-Oct-07	15.00	°C	Temperature, Surface
LA-33	15-May-08	15.00	°C	Temperature, Surface
LA-33	13-Apr-00	15.5	C	Temperature, Surface
LA-33	27-Mar-01	15.5	C	Temperature, Surface
LA-33	19-Apr-01	15.5	C	Temperature, Surface
LA-33	16-May-02	15.5	C	Temperature, Surface
LA-33	13-Nov-02	15.5	C	Temperature, Surface
LA-33	10-Sep-03	15.5	C	Temperature, Surface
LA-33	15-Nov-07	15.50	°C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	5-Dec-00	16	C	Temperature, Surface
LA-33	13-Mar-03	16	C	Temperature, Surface
LA-33	19-Nov-03	16	C	Temperature, Surface
LA-33	17-Mar-04	16	C	Temperature, Surface
LA-33	10-Mar-05	16	C	Temperature, Surface
LA-33	12-May-05	16	C	Temperature, Surface
LA-33	15-Sep-05	16	C	Temperature, Surface
LA-33	13-Oct-05	16	C	Temperature, Surface
LA-33	16-Nov-05	16	C	Temperature, Surface
LA-33	11-May-06	16	C	Temperature, Surface
LA-33	10-Mar-02	16.5	C	Temperature, Surface
LA-33	9-Oct-03	16.5	C	Temperature, Surface
LA-33	12-May-04	16.5	C	Temperature, Surface
LA-33	9-Jun-05	16.5	C	Temperature, Surface
LA-33	15-Jun-06	16.5	C	Temperature, Surface
LA-33	17-Aug-06	16.5	C	Temperature, Surface
LA-33	11-Jan-01	17	C	Temperature, Surface
LA-33	9-Dec-02	17	C	Temperature, Surface
LA-33	11-Aug-05	17	C	Temperature, Surface
LA-33	15-Nov-06	17	C	Temperature, Surface
LA-33	10-Jan-00	17.5	C	Temperature, Surface
LA-33	6-Jul-01	17.5	C	Temperature, Surface
LA-33	18-Jul-01	17.5	C	Temperature, Surface
LA-33	13-Oct-04	17.5	C	Temperature, Surface
LA-33	10-Nov-04	17.5	C	Temperature, Surface
LA-33	12-Jun-08	17.80	°C	Temperature, Surface
LA-33	10-Dec-01	18	C	Temperature, Surface
LA-33	20-Jun-02	18	C	Temperature, Surface
LA-33	31-Jul-02	18	C	Temperature, Surface
LA-33	29-Aug-02	18	C	Temperature, Surface
LA-33	18-Aug-04	18	C	Temperature, Surface
LA-33	21-Sep-06	18	C	Temperature, Surface
LA-33	18-Jul-07	18.00	°C	Temperature, Surface
LA-33	23-Aug-01	18.5	C	Temperature, Surface
LA-33	5-Nov-01	18.5	C	Temperature, Surface
LA-33	16-Jun-04	19	C	Temperature, Surface
LA-33	21-Jul-04	19	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-33	20-Jul-06	19	C	Temperature, Surface
LA-33	9-Aug-07	19.00	°C	Temperature, Surface
LA-33	16-Jun-00	19.5	C	Temperature, Surface
LA-33	13-Jul-00	19.5	C	Temperature, Surface
LA-33	30-Aug-00	19.5	C	Temperature, Surface
LA-33	15-Sep-00	19.5	C	Temperature, Surface
LA-33	13-Sep-01	19.5	C	Temperature, Surface
LA-33	7-Aug-03	19.5	C	Temperature, Surface
LA-33	19-Jun-03	20	C	Temperature, Surface
LA-33	15-Sep-04	20.5	C	Temperature, Surface
LA-33	10-Jul-03	21.5	C	Temperature, Surface
LA-35	24-Oct-07	5.00	°C	Temperature, Surface
LA-35	14-May-03	13	C	Temperature, Surface
LA-35	13-Apr-06	13	C	Temperature, Surface
LA-35	17-Jan-08	13.00	°C	Temperature, Surface
LA-35	14-Feb-08	13.00	°C	Temperature, Surface
LA-35	13-Dec-01	13.5	C	Temperature, Surface
LA-35	4-Sep-03	13.5	C	Temperature, Surface
LA-35	21-Jan-04	13.5	C	Temperature, Surface
LA-35	18-Feb-04	13.5	C	Temperature, Surface
LA-35	25-Jan-07	13.50	C	Temperature, Surface
LA-35	25-Jan-07	13.5	C	Temperature, Surface
LA-35	20-Mar-08	13.50	°C	Temperature, Surface
LA-35	25-Jan-01	14	C	Temperature, Surface
LA-35	17-Jan-02	14	C	Temperature, Surface
LA-35	19-Dec-02	14	C	Temperature, Surface
LA-35	8-Dec-05	14	C	Temperature, Surface
LA-35	7-Feb-07	14.00	°C	Temperature, Surface
LA-35	16-May-07	14.00	°C	Temperature, Surface
LA-35	19-Dec-07	14.00	°C	Temperature, Surface
LA-35	16-Feb-06	14.2	C	Temperature, Surface
LA-35	15-Feb-01	14.5	C	Temperature, Surface
LA-35	19-Feb-03	14.5	C	Temperature, Surface
LA-35	20-Jan-05	14.5	C	Temperature, Surface
LA-35	15-Mar-07	14.50	°C	Temperature, Surface
LA-35	17-Apr-08	14.50	°C	Temperature, Surface
LA-35	21-Dec-00	15	C	Temperature, Surface

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LA-35	21-Feb-02	15	C	Temperature, Surface
LA-35	14-Mar-02	15	C	Temperature, Surface
LA-35	4-Oct-02	15	C	Temperature, Surface
LA-35	16-Jan-03	15	C	Temperature, Surface
LA-35	4-Dec-03	15	C	Temperature, Surface
LA-35	22-Dec-04	15	C	Temperature, Surface
LA-35	10-Feb-05	15	C	Temperature, Surface
LA-35	27-Apr-05	15	C	Temperature, Surface
LA-35	7-Jul-05	15	C	Temperature, Surface
LA-35	12-Jan-06	15	C	Temperature, Surface
LA-35	11-May-06	15	C	Temperature, Surface
LA-35	12-Apr-07	15.00	°C	Temperature, Surface
LA-35	13-Apr-00	15.5	C	Temperature, Surface
LA-35	29-Nov-00	15.5	C	Temperature, Surface
LA-35	27-Mar-01	15.5	C	Temperature, Surface
LA-35	19-Apr-01	15.5	C	Temperature, Surface
LA-35	17-Mar-04	15.5	C	Temperature, Surface
LA-35	14-Apr-04	15.5	C	Temperature, Surface
LA-35	15-Nov-07	15.50	°C	Temperature, Surface
LA-35	25-Feb-00	15.8	C	Temperature, Surface
LA-35	5-Dec-00	16	C	Temperature, Surface
LA-35	16-May-02	16	C	Temperature, Surface
LA-35	13-Mar-03	16	C	Temperature, Surface
LA-35	19-Nov-03	16	C	Temperature, Surface
LA-35	10-Mar-05	16	C	Temperature, Surface
LA-35	12-May-05	16	C	Temperature, Surface
LA-35	13-Oct-05	16	C	Temperature, Surface
LA-35	16-Nov-05	16	C	Temperature, Surface
LA-35	15-May-08	16.00	°C	Temperature, Surface
LA-35	3-Oct-00	16.5	C	Temperature, Surface
LA-35	9-Oct-03	16.5	C	Temperature, Surface
LA-35	11-Aug-05	16.5	C	Temperature, Surface
LA-35	11-Jan-01	17	C	Temperature, Surface
LA-35	10-Mar-02	17	C	Temperature, Surface
LA-35	9-Dec-02	17	C	Temperature, Surface
LA-35	10-Sep-03	17	C	Temperature, Surface
LA-35	12-May-04	17	C	Temperature, Surface

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LA-35	15-Jun-06	17	C	Temperature, Surface
LA-35	17-Aug-06	17	C	Temperature, Surface
LA-35	15-Nov-06	17	C	Temperature, Surface
LA-35	6-Jul-01	17.5	C	Temperature, Surface
LA-35	18-Jul-01	17.5	C	Temperature, Surface
LA-35	31-Jul-02	17.5	C	Temperature, Surface
LA-35	10-Nov-04	17.5	C	Temperature, Surface
LA-35	15-Sep-05	17.5	C	Temperature, Surface
LA-35	10-Jan-00	18	C	Temperature, Surface
LA-35	20-Jun-02	18	C	Temperature, Surface
LA-35	18-Aug-04	18	C	Temperature, Surface
LA-35	13-Oct-04	18	C	Temperature, Surface
LA-35	9-Jun-05	18	C	Temperature, Surface
LA-35	21-Sep-06	18	C	Temperature, Surface
LA-35	18-Jul-07	18.00	°C	Temperature, Surface
LA-35	12-Jun-08	18.30	°C	Temperature, Surface
LA-35	10-Dec-01	18.5	C	Temperature, Surface
LA-35	29-Aug-02	18.5	C	Temperature, Surface
LA-35	13-Jul-00	19	C	Temperature, Surface
LA-35	23-Aug-01	19	C	Temperature, Surface
LA-35	5-Nov-01	19	C	Temperature, Surface
LA-35	13-Sep-01	19.5	C	Temperature, Surface
LA-35	7-Aug-03	19.5	C	Temperature, Surface
LA-35	16-Jun-04	19.5	C	Temperature, Surface
LA-35	21-Jul-04	19.5	C	Temperature, Surface
LA-35	20-Jul-06	19.5	C	Temperature, Surface
LA-35	30-Aug-00	20	C	Temperature, Surface
LA-35	19-Jun-03	20	C	Temperature, Surface
LA-35	9-Aug-07	20.00	°C	Temperature, Surface
LA-35	16-Jun-00	21	C	Temperature, Surface
LA-35	15-Sep-00	21	C	Temperature, Surface
LA-35	10-Jul-03	21	C	Temperature, Surface
LA-35	15-Sep-04	21	C	Temperature, Surface
LA-39	14-May-03	12.5	C	Temperature, Surface
LA-39	17-Jan-08	12.50	°C	Temperature, Surface
LA-39	18-Feb-04	13	C	Temperature, Surface
LA-39	13-Apr-06	13	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	25-Jan-07	13.00	C	Temperature, Surface
LA-39	25-Jan-07	13	C	Temperature, Surface
LA-39	14-Feb-08	13.00	°C	Temperature, Surface
LA-39	20-Mar-08	13.00	°C	Temperature, Surface
LA-39	4-Sep-03	13.5	C	Temperature, Surface
LA-39	21-Jan-04	13.5	C	Temperature, Surface
LA-39	25-Feb-00	14	C	Temperature, Surface
LA-39	15-Feb-01	14	C	Temperature, Surface
LA-39	4-Oct-02	14	C	Temperature, Surface
LA-39	19-Feb-03	14	C	Temperature, Surface
LA-39	20-Jan-05	14	C	Temperature, Surface
LA-39	7-Feb-07	14.00	°C	Temperature, Surface
LA-39	16-May-07	14.00	°C	Temperature, Surface
LA-39	17-Apr-08	14.00	°C	Temperature, Surface
LA-39	21-Dec-00	14.5	C	Temperature, Surface
LA-39	25-Jan-01	14.5	C	Temperature, Surface
LA-39	13-Dec-01	14.5	C	Temperature, Surface
LA-39	17-Jan-02	14.5	C	Temperature, Surface
LA-39	14-Mar-02	14.5	C	Temperature, Surface
LA-39	10-Feb-05	14.5	C	Temperature, Surface
LA-39	8-Dec-05	14.5	C	Temperature, Surface
LA-39	12-Jan-06	14.5	C	Temperature, Surface
LA-39	16-Feb-06	14.5	C	Temperature, Surface
LA-39	15-Mar-07	14.50	°C	Temperature, Surface
LA-39	12-Apr-07	14.50	°C	Temperature, Surface
LA-39	19-Dec-07	14.50	°C	Temperature, Surface
LA-39	13-Apr-00	15	C	Temperature, Surface
LA-39	3-Oct-00	15	C	Temperature, Surface
LA-39	21-Feb-02	15	C	Temperature, Surface
LA-39	13-Nov-02	15	C	Temperature, Surface
LA-39	16-Jan-03	15	C	Temperature, Surface
LA-39	4-Dec-03	15	C	Temperature, Surface
LA-39	14-Apr-04	15	C	Temperature, Surface
LA-39	10-Mar-05	15	C	Temperature, Surface
LA-39	27-Apr-05	15	C	Temperature, Surface
LA-39	7-Jul-05	15	C	Temperature, Surface
LA-39	24-Oct-07	15.00	°C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	29-Nov-00	15.5	C	Temperature, Surface
LA-39	27-Mar-01	15.5	C	Temperature, Surface
LA-39	19-Apr-01	15.5	C	Temperature, Surface
LA-39	19-Dec-02	15.5	C	Temperature, Surface
LA-39	10-Sep-03	15.5	C	Temperature, Surface
LA-39	9-Oct-03	15.5	C	Temperature, Surface
LA-39	22-Dec-04	15.5	C	Temperature, Surface
LA-39	12-May-05	15.5	C	Temperature, Surface
LA-39	15-Sep-05	15.5	C	Temperature, Surface
LA-39	11-May-06	15.5	C	Temperature, Surface
LA-39	15-Nov-07	15.50	°C	Temperature, Surface
LA-39	10-Mar-02	16	C	Temperature, Surface
LA-39	16-May-02	16	C	Temperature, Surface
LA-39	13-Mar-03	16	C	Temperature, Surface
LA-39	19-Nov-03	16	C	Temperature, Surface
LA-39	17-Mar-04	16	C	Temperature, Surface
LA-39	13-Oct-05	16	C	Temperature, Surface
LA-39	16-Nov-05	16	C	Temperature, Surface
LA-39	15-May-08	16.00	°C	Temperature, Surface
LA-39	12-May-04	16.5	C	Temperature, Surface
LA-39	11-Aug-05	16.5	C	Temperature, Surface
LA-39	17-Aug-06	16.5	C	Temperature, Surface
LA-39	5-Dec-00	17	C	Temperature, Surface
LA-39	11-Jan-01	17	C	Temperature, Surface
LA-39	6-Jul-01	17	C	Temperature, Surface
LA-39	9-Dec-02	17	C	Temperature, Surface
LA-39	9-Jun-05	17	C	Temperature, Surface
LA-39	15-Nov-06	17	C	Temperature, Surface
LA-39	18-Jul-01	17.5	C	Temperature, Surface
LA-39	13-Oct-04	17.5	C	Temperature, Surface
LA-39	10-Nov-04	17.5	C	Temperature, Surface
LA-39	15-Jun-06	17.5	C	Temperature, Surface
LA-39	10-Jan-00	18	C	Temperature, Surface
LA-39	5-Nov-01	18	C	Temperature, Surface
LA-39	10-Dec-01	18	C	Temperature, Surface
LA-39	20-Jun-02	18	C	Temperature, Surface
LA-39	31-Jul-02	18	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	29-Aug-02	18	C	Temperature, Surface
LA-39	18-Aug-04	18	C	Temperature, Surface
LA-39	21-Sep-06	18	C	Temperature, Surface
LA-39	18-Jul-07	18.00	°C	Temperature, Surface
LA-39	12-Jun-08	18.00	°C	Temperature, Surface
LA-39	15-Sep-00	18.5	C	Temperature, Surface
LA-39	16-Jun-00	19	C	Temperature, Surface
LA-39	23-Aug-01	19	C	Temperature, Surface
LA-39	16-Jun-04	19	C	Temperature, Surface
LA-39	21-Jul-04	19	C	Temperature, Surface
LA-39	20-Jul-06	19	C	Temperature, Surface
LA-39	9-Aug-07	19.00	°C	Temperature, Surface
LA-39	13-Jul-00	19.5	C	Temperature, Surface
LA-39	30-Aug-00	19.5	C	Temperature, Surface
LA-39	13-Sep-01	19.5	C	Temperature, Surface
LA-39	7-Aug-03	19.5	C	Temperature, Surface
LA-39	19-Jun-03	20	C	Temperature, Surface
LA-39	15-Sep-04	20.5	C	Temperature, Surface
LA-39	10-Jul-03	21	C	Temperature, Surface
LA-41	17-Jan-08	13.00	°C	Temperature, Surface
LA-41	14-Feb-08	13.00	°C	Temperature, Surface
LA-41	14-May-03	13.5	C	Temperature, Surface
LA-41	13-Dec-01	14	C	Temperature, Surface
LA-41	17-Jan-02	14	C	Temperature, Surface
LA-41	21-Jan-04	14	C	Temperature, Surface
LA-41	25-Feb-04	14	C	Temperature, Surface
LA-41	13-Apr-06	14	C	Temperature, Surface
LA-41	16-May-07	14.00	°C	Temperature, Surface
LA-41	20-Mar-08	14.00	°C	Temperature, Surface
LA-41	25-Feb-00	14.4	C	Temperature, Surface
LA-41	25-Jan-01	14.5	C	Temperature, Surface
LA-41	15-Feb-01	14.5	C	Temperature, Surface
LA-41	22-Dec-04	14.5	C	Temperature, Surface
LA-41	8-Dec-05	14.5	C	Temperature, Surface
LA-41	12-Jan-06	14.5	C	Temperature, Surface
LA-41	16-Feb-06	14.5	C	Temperature, Surface
LA-41	25-Jan-07	14.50	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	25-Jan-07	14.5	C	Temperature, Surface
LA-41	7-Feb-07	14.50	°C	Temperature, Surface
LA-41	17-Apr-08	14.50	°C	Temperature, Surface
LA-41	14-Mar-02	15	C	Temperature, Surface
LA-41	19-Dec-02	15	C	Temperature, Surface
LA-41	16-Jan-03	15	C	Temperature, Surface
LA-41	19-Feb-03	15	C	Temperature, Surface
LA-41	4-Sep-03	15	C	Temperature, Surface
LA-41	20-Jan-05	15	C	Temperature, Surface
LA-41	10-Feb-05	15	C	Temperature, Surface
LA-41	15-Mar-07	15.00	°C	Temperature, Surface
LA-41	12-Apr-07	15.00	°C	Temperature, Surface
LA-41	19-Dec-07	15.00	°C	Temperature, Surface
LA-41	29-Nov-00	15.5	C	Temperature, Surface
LA-41	21-Feb-02	15.5	C	Temperature, Surface
LA-41	4-Oct-02	15.5	C	Temperature, Surface
LA-41	15-Sep-05	15.5	C	Temperature, Surface
LA-41	11-May-06	15.5	C	Temperature, Surface
LA-41	13-Apr-00	16	C	Temperature, Surface
LA-41	3-Oct-00	16	C	Temperature, Surface
LA-41	27-Mar-01	16	C	Temperature, Surface
LA-41	19-Apr-01	16	C	Temperature, Surface
LA-41	16-May-02	16	C	Temperature, Surface
LA-41	9-Oct-03	16	C	Temperature, Surface
LA-41	4-Dec-03	16	C	Temperature, Surface
LA-41	14-Apr-04	16	C	Temperature, Surface
LA-41	10-Mar-05	16	C	Temperature, Surface
LA-41	12-May-05	16	C	Temperature, Surface
LA-41	7-Jul-05	16	C	Temperature, Surface
LA-41	24-Oct-07	16.00	°C	Temperature, Surface
LA-41	13-Nov-02	16.5	C	Temperature, Surface
LA-41	15-Nov-07	16.50	°C	Temperature, Surface
LA-41	11-Jan-01	17	C	Temperature, Surface
LA-41	13-Mar-03	17	C	Temperature, Surface
LA-41	10-Sep-03	17	C	Temperature, Surface
LA-41	19-Nov-03	17	C	Temperature, Surface
LA-41	17-Mar-04	17	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	13-Oct-05	17	C	Temperature, Surface
LA-41	16-Nov-05	17	C	Temperature, Surface
LA-41	15-Nov-06	17	C	Temperature, Surface
LA-41	5-Dec-00	17.5	C	Temperature, Surface
LA-41	15-May-08	17.50	°C	Temperature, Surface
LA-41	10-Jan-00	18	C	Temperature, Surface
LA-41	5-Nov-01	18	C	Temperature, Surface
LA-41	10-Dec-01	18	C	Temperature, Surface
LA-41	10-Mar-02	18	C	Temperature, Surface
LA-41	9-Dec-02	18	C	Temperature, Surface
LA-41	12-May-04	18	C	Temperature, Surface
LA-41	10-Nov-04	18	C	Temperature, Surface
LA-41	11-Aug-05	18	C	Temperature, Surface
LA-41	17-Aug-06	18	C	Temperature, Surface
LA-41	6-Jul-01	18.5	C	Temperature, Surface
LA-41	18-Jul-01	18.5	C	Temperature, Surface
LA-41	29-Aug-02	18.5	C	Temperature, Surface
LA-41	12-Jun-08	18.80	°C	Temperature, Surface
LA-41	23-Aug-01	19	C	Temperature, Surface
LA-41	16-Jun-04	19	C	Temperature, Surface
LA-41	18-Aug-04	19	C	Temperature, Surface
LA-41	13-Oct-04	19	C	Temperature, Surface
LA-41	9-Jun-05	19	C	Temperature, Surface
LA-41	21-Sep-06	19	C	Temperature, Surface
LA-41	18-Jul-07	19.50	°C	Temperature, Surface
LA-41	16-Jun-00	20	C	Temperature, Surface
LA-41	15-Sep-00	20	C	Temperature, Surface
LA-41	15-Sep-00	20	C	Temperature, Surface
LA-41	13-Sep-01	20	C	Temperature, Surface
LA-41	20-Jun-02	20	C	Temperature, Surface
LA-41	19-Jun-03	20	C	Temperature, Surface
LA-41	7-Aug-03	20	C	Temperature, Surface
LA-41	15-Jun-06	20	C	Temperature, Surface
LA-41	21-Jul-04	20.5	C	Temperature, Surface
LA-41	15-Sep-04	20.5	C	Temperature, Surface
LA-41	9-Aug-07	20.50	°C	Temperature, Surface
LA-41	13-Jul-00	21	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	30-Aug-00	21	C	Temperature, Surface
LA-41	20-Jul-06	21.5	C	Temperature, Surface
LA-41	31-Jul-02	22	C	Temperature, Surface
LA-41	10-Jul-03	22	C	Temperature, Surface
LA-44	17-Jan-08	13.00	°C	Temperature, Surface
LA-44	14-Feb-08	13.00	°C	Temperature, Surface
LA-44	14-May-03	13.5	C	Temperature, Surface
LA-44	13-Apr-06	13.5	C	Temperature, Surface
LA-44	25-Jan-07	13.50	C	Temperature, Surface
LA-44	25-Jan-07	13.5	C	Temperature, Surface
LA-44	13-Dec-01	14	C	Temperature, Surface
LA-44	17-Jan-02	14	C	Temperature, Surface
LA-44	4-Sep-03	14	C	Temperature, Surface
LA-44	21-Jan-04	14	C	Temperature, Surface
LA-44	25-Feb-04	14	C	Temperature, Surface
LA-44	16-Feb-06	14	C	Temperature, Surface
LA-44	16-May-07	14.00	°C	Temperature, Surface
LA-44	20-Mar-08	14.00	°C	Temperature, Surface
LA-44	17-Apr-08	14.00	°C	Temperature, Surface
LA-44	25-Jan-01	14.5	C	Temperature, Surface
LA-44	15-Feb-01	14.5	C	Temperature, Surface
LA-44	22-Dec-04	14.5	C	Temperature, Surface
LA-44	8-Dec-05	14.5	C	Temperature, Surface
LA-44	12-Jan-06	14.5	C	Temperature, Surface
LA-44	7-Feb-07	14.50	°C	Temperature, Surface
LA-44	15-Mar-07	14.80	°C	Temperature, Surface
LA-44	19-Dec-07	14.90	°C	Temperature, Surface
LA-44	25-Feb-00	15	C	Temperature, Surface
LA-44	21-Dec-00	15	C	Temperature, Surface
LA-44	21-Feb-02	15	C	Temperature, Surface
LA-44	14-Mar-02	15	C	Temperature, Surface
LA-44	4-Oct-02	15	C	Temperature, Surface
LA-44	19-Dec-02	15	C	Temperature, Surface
LA-44	16-Jan-03	15	C	Temperature, Surface
LA-44	19-Feb-03	15	C	Temperature, Surface
LA-44	20-Jan-05	15	C	Temperature, Surface
LA-44	10-Feb-05	15	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	12-Apr-07	15.00	°C	Temperature, Surface
LA-44	29-Nov-00	15.5	C	Temperature, Surface
LA-44	11-May-06	15.5	C	Temperature, Surface
LA-44	24-Oct-07	15.50	°C	Temperature, Surface
LA-44	27-Mar-01	16	C	Temperature, Surface
LA-44	19-Apr-01	16	C	Temperature, Surface
LA-44	16-May-02	16	C	Temperature, Surface
LA-44	13-Nov-02	16	C	Temperature, Surface
LA-44	9-Oct-03	16	C	Temperature, Surface
LA-44	4-Dec-03	16	C	Temperature, Surface
LA-44	14-Apr-04	16	C	Temperature, Surface
LA-44	10-Mar-05	16	C	Temperature, Surface
LA-44	12-May-05	16	C	Temperature, Surface
LA-44	7-Jul-05	16	C	Temperature, Surface
LA-44	15-Nov-07	16.00	°C	Temperature, Surface
LA-44	13-Apr-00	16.5	C	Temperature, Surface
LA-44	13-Mar-03	16.5	C	Temperature, Surface
LA-44	15-Sep-05	16.5	C	Temperature, Surface
LA-44	3-Oct-00	17	C	Temperature, Surface
LA-44	5-Dec-00	17	C	Temperature, Surface
LA-44	11-Jan-01	17	C	Temperature, Surface
LA-44	10-Sep-03	17	C	Temperature, Surface
LA-44	19-Nov-03	17	C	Temperature, Surface
LA-44	17-Mar-04	17	C	Temperature, Surface
LA-44	27-Apr-05	17	C	Temperature, Surface
LA-44	11-Aug-05	17	C	Temperature, Surface
LA-44	13-Oct-05	17	C	Temperature, Surface
LA-44	16-Nov-05	17	C	Temperature, Surface
LA-44	15-Nov-06	17	C	Temperature, Surface
LA-44	10-Jan-00	18	C	Temperature, Surface
LA-44	10-Mar-02	18	C	Temperature, Surface
LA-44	13-Oct-04	18	C	Temperature, Surface
LA-44	10-Nov-04	18	C	Temperature, Surface
LA-44	17-Aug-06	18	C	Temperature, Surface
LA-44	18-Jul-07	18.00	°C	Temperature, Surface
LA-44	15-May-08	18.00	°C	Temperature, Surface
LA-44	18-Jul-01	18.5	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-44	5-Nov-01	18.5	C	Temperature, Surface
LA-44	9-Dec-02	18.5	C	Temperature, Surface
LA-44	12-May-04	18.5	C	Temperature, Surface
LA-44	9-Jun-05	18.5	C	Temperature, Surface
LA-44	15-Jun-06	18.5	C	Temperature, Surface
LA-44	21-Sep-06	18.5	C	Temperature, Surface
LA-44	6-Jul-01	19	C	Temperature, Surface
LA-44	10-Dec-01	19	C	Temperature, Surface
LA-44	29-Aug-02	19	C	Temperature, Surface
LA-44	16-Jun-04	19	C	Temperature, Surface
LA-44	18-Aug-04	19	C	Temperature, Surface
LA-44	12-Jun-08	19.10	°C	Temperature, Surface
LA-44	23-Aug-01	19.5	C	Temperature, Surface
LA-44	13-Jul-00	20	C	Temperature, Surface
LA-44	13-Sep-01	20	C	Temperature, Surface
LA-44	20-Jun-02	20	C	Temperature, Surface
LA-44	19-Jun-03	20	C	Temperature, Surface
LA-44	21-Jul-04	20	C	Temperature, Surface
LA-44	20-Jul-06	20	C	Temperature, Surface
LA-44	16-Jun-00	20.5	C	Temperature, Surface
LA-44	15-Sep-00	20.5	C	Temperature, Surface
LA-44	15-Sep-04	20.5	C	Temperature, Surface
LA-44	9-Aug-07	20.50	°C	Temperature, Surface
LA-44	30-Aug-00	21	C	Temperature, Surface
LA-44	7-Aug-03	21	C	Temperature, Surface
LA-44	31-Jul-02	22	C	Temperature, Surface
LA-44	10-Jul-03	23	C	Temperature, Surface
LA-46	17-Jan-08	13.00	°C	Temperature, Surface
LA-46	14-Feb-08	13.00	°C	Temperature, Surface
LA-46	14-May-03	13.5	C	Temperature, Surface
LA-46	13-Dec-01	14	C	Temperature, Surface
LA-46	17-Jan-02	14	C	Temperature, Surface
LA-46	21-Jan-04	14	C	Temperature, Surface
LA-46	25-Feb-04	14	C	Temperature, Surface
LA-46	25-Jan-07	14.00	C	Temperature, Surface
LA-46	25-Jan-07	14	C	Temperature, Surface
LA-46	16-May-07	14.00	°C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	19-Dec-07	14.00	°C	Temperature, Surface
LA-46	20-Mar-08	14.00	°C	Temperature, Surface
LA-46	16-Feb-06	14.3	C	Temperature, Surface
LA-46	25-Feb-00	14.4	C	Temperature, Surface
LA-46	25-Jan-01	14.5	C	Temperature, Surface
LA-46	15-Feb-01	14.5	C	Temperature, Surface
LA-46	4-Sep-03	14.5	C	Temperature, Surface
LA-46	22-Dec-04	14.5	C	Temperature, Surface
LA-46	8-Dec-05	14.5	C	Temperature, Surface
LA-46	12-Jan-06	14.5	C	Temperature, Surface
LA-46	7-Feb-07	14.50	°C	Temperature, Surface
LA-46	21-Dec-00	15	C	Temperature, Surface
LA-46	14-Mar-02	15	C	Temperature, Surface
LA-46	19-Dec-02	15	C	Temperature, Surface
LA-46	16-Jan-03	15	C	Temperature, Surface
LA-46	19-Feb-03	15	C	Temperature, Surface
LA-46	20-Jan-05	15	C	Temperature, Surface
LA-46	10-Feb-05	15	C	Temperature, Surface
LA-46	13-Apr-06	15	C	Temperature, Surface
LA-46	15-Mar-07	15.00	°C	Temperature, Surface
LA-46	17-Apr-08	15.00	°C	Temperature, Surface
LA-46	21-Feb-02	15.5	C	Temperature, Surface
LA-46	12-Apr-07	15.50	°C	Temperature, Surface
LA-46	13-Apr-00	16	C	Temperature, Surface
LA-46	29-Nov-00	16	C	Temperature, Surface
LA-46	27-Mar-01	16	C	Temperature, Surface
LA-46	19-Apr-01	16	C	Temperature, Surface
LA-46	16-May-02	16	C	Temperature, Surface
LA-46	4-Oct-02	16	C	Temperature, Surface
LA-46	9-Oct-03	16	C	Temperature, Surface
LA-46	4-Dec-03	16	C	Temperature, Surface
LA-46	14-Apr-04	16	C	Temperature, Surface
LA-46	10-Mar-05	16	C	Temperature, Surface
LA-46	12-May-05	16	C	Temperature, Surface
LA-46	7-Jul-05	16	C	Temperature, Surface
LA-46	11-May-06	16	C	Temperature, Surface
LA-46	24-Oct-07	16.00	°C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	15-Nov-07	16.00	°C	Temperature, Surface
LA-46	13-Nov-02	16.5	C	Temperature, Surface
LA-46	15-Sep-05	16.5	C	Temperature, Surface
LA-46	3-Oct-00	17	C	Temperature, Surface
LA-46	11-Jan-01	17	C	Temperature, Surface
LA-46	13-Mar-03	17	C	Temperature, Surface
LA-46	10-Sep-03	17	C	Temperature, Surface
LA-46	19-Nov-03	17	C	Temperature, Surface
LA-46	17-Mar-04	17	C	Temperature, Surface
LA-46	27-Apr-05	17	C	Temperature, Surface
LA-46	11-Aug-05	17	C	Temperature, Surface
LA-46	13-Oct-05	17	C	Temperature, Surface
LA-46	16-Nov-05	17	C	Temperature, Surface
LA-46	15-Nov-06	17	C	Temperature, Surface
LA-46	10-Jan-00	18	C	Temperature, Surface
LA-46	5-Dec-00	18	C	Temperature, Surface
LA-46	10-Mar-02	18	C	Temperature, Surface
LA-46	9-Dec-02	18	C	Temperature, Surface
LA-46	10-Nov-04	18	C	Temperature, Surface
LA-46	17-Aug-06	18	C	Temperature, Surface
LA-46	15-May-08	18.00	°C	Temperature, Surface
LA-46	18-Jul-01	18.5	C	Temperature, Surface
LA-46	5-Nov-01	18.5	C	Temperature, Surface
LA-46	10-Dec-01	18.5	C	Temperature, Surface
LA-46	12-May-04	18.5	C	Temperature, Surface
LA-46	6-Jul-01	19	C	Temperature, Surface
LA-46	29-Aug-02	19	C	Temperature, Surface
LA-46	16-Jun-04	19	C	Temperature, Surface
LA-46	18-Aug-04	19	C	Temperature, Surface
LA-46	13-Oct-04	19	C	Temperature, Surface
LA-46	9-Jun-05	19	C	Temperature, Surface
LA-46	15-Jun-06	19	C	Temperature, Surface
LA-46	21-Sep-06	19	C	Temperature, Surface
LA-46	12-Jun-08	19.00	°C	Temperature, Surface
LA-46	23-Aug-01	19.5	C	Temperature, Surface
LA-46	13-Jul-00	20	C	Temperature, Surface
LA-46	20-Jun-02	20	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-46	18-Jul-07	20.00	°C	Temperature, Surface
LA-46	9-Aug-07	20.00	°C	Temperature, Surface
LA-46	13-Sep-01	20.5	C	Temperature, Surface
LA-46	15-Sep-04	20.5	C	Temperature, Surface
LA-46	16-Jun-00	21	C	Temperature, Surface
LA-46	30-Aug-00	21	C	Temperature, Surface
LA-46	15-Sep-00	21	C	Temperature, Surface
LA-46	31-Jul-02	21	C	Temperature, Surface
LA-46	19-Jun-03	21	C	Temperature, Surface
LA-46	21-Jul-04	21	C	Temperature, Surface
LA-46	20-Jul-06	21	C	Temperature, Surface
LA-46	7-Aug-03	22	C	Temperature, Surface
LA-46	10-Jul-03	23	C	Temperature, Surface
LA-47	17-Jan-08	13.00	°C	Temperature, Surface
LA-47	14-Feb-08	13.00	°C	Temperature, Surface
LA-47	14-May-03	13.5	C	Temperature, Surface
LA-47	25-Jan-01	14	C	Temperature, Surface
LA-47	15-Feb-01	14	C	Temperature, Surface
LA-47	13-Dec-01	14	C	Temperature, Surface
LA-47	21-Jan-04	14	C	Temperature, Surface
LA-47	25-Feb-04	14	C	Temperature, Surface
LA-47	25-Jan-07	14.00	C	Temperature, Surface
LA-47	25-Jan-07	14	C	Temperature, Surface
LA-47	19-Dec-07	14.00	°C	Temperature, Surface
LA-47	20-Mar-08	14.00	°C	Temperature, Surface
LA-47	16-Feb-06	14.2	C	Temperature, Surface
LA-47	21-Dec-00	14.5	C	Temperature, Surface
LA-47	17-Jan-02	14.5	C	Temperature, Surface
LA-47	22-Dec-04	14.5	C	Temperature, Surface
LA-47	8-Dec-05	14.5	C	Temperature, Surface
LA-47	12-Jan-06	14.5	C	Temperature, Surface
LA-47	7-Feb-07	14.50	°C	Temperature, Surface
LA-47	16-May-07	14.50	°C	Temperature, Surface
LA-47	25-Feb-00	15	C	Temperature, Surface
LA-47	21-Feb-02	15	C	Temperature, Surface
LA-47	14-Mar-02	15	C	Temperature, Surface
LA-47	16-Jan-03	15	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	19-Feb-03	15	C	Temperature, Surface
LA-47	4-Sep-03	15	C	Temperature, Surface
LA-47	9-Oct-03	15	C	Temperature, Surface
LA-47	10-Feb-05	15	C	Temperature, Surface
LA-47	7-Jul-05	15	C	Temperature, Surface
LA-47	13-Apr-06	15	C	Temperature, Surface
LA-47	15-Mar-07	15.00	°C	Temperature, Surface
LA-47	17-Apr-08	15.00	°C	Temperature, Surface
LA-47	29-Nov-00	15.5	C	Temperature, Surface
LA-47	4-Oct-02	15.5	C	Temperature, Surface
LA-47	19-Dec-02	15.5	C	Temperature, Surface
LA-47	4-Dec-03	15.5	C	Temperature, Surface
LA-47	20-Jan-05	15.5	C	Temperature, Surface
LA-47	12-Apr-07	15.50	°C	Temperature, Surface
LA-47	3-Oct-00	16	C	Temperature, Surface
LA-47	27-Mar-01	16	C	Temperature, Surface
LA-47	19-Apr-01	16	C	Temperature, Surface
LA-47	10-Sep-03	16	C	Temperature, Surface
LA-47	10-Mar-05	16	C	Temperature, Surface
LA-47	27-Apr-05	16	C	Temperature, Surface
LA-47	11-May-06	16	C	Temperature, Surface
LA-47	24-Oct-07	16.00	°C	Temperature, Surface
LA-47	16-May-02	16.5	C	Temperature, Surface
LA-47	13-Nov-02	16.5	C	Temperature, Surface
LA-47	13-Apr-00	17	C	Temperature, Surface
LA-47	11-Jan-01	17	C	Temperature, Surface
LA-47	10-Mar-02	17	C	Temperature, Surface
LA-47	13-Mar-03	17	C	Temperature, Surface
LA-47	19-Nov-03	17	C	Temperature, Surface
LA-47	17-Mar-04	17	C	Temperature, Surface
LA-47	14-Apr-04	17	C	Temperature, Surface
LA-47	15-Sep-05	17	C	Temperature, Surface
LA-47	13-Oct-05	17	C	Temperature, Surface
LA-47	16-Nov-05	17	C	Temperature, Surface
LA-47	15-Nov-06	17	C	Temperature, Surface
LA-47	15-Nov-07	17.00	°C	Temperature, Surface
LA-47	11-Aug-05	17.5	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-47	10-Jan-00	18	C	Temperature, Surface
LA-47	5-Nov-01	18	C	Temperature, Surface
LA-47	9-Dec-02	18	C	Temperature, Surface
LA-47	13-Oct-04	18	C	Temperature, Surface
LA-47	10-Nov-04	18	C	Temperature, Surface
LA-47	12-May-05	18	C	Temperature, Surface
LA-47	10-Dec-01	18.5	C	Temperature, Surface
LA-47	12-May-04	18.5	C	Temperature, Surface
LA-47	17-Aug-06	18.5	C	Temperature, Surface
LA-47	15-May-08	18.50	°C	Temperature, Surface
LA-47	12-Jun-08	18.70	°C	Temperature, Surface
LA-47	5-Dec-00	19	C	Temperature, Surface
LA-47	6-Jul-01	19	C	Temperature, Surface
LA-47	18-Jul-01	19	C	Temperature, Surface
LA-47	23-Aug-01	19	C	Temperature, Surface
LA-47	18-Aug-04	19	C	Temperature, Surface
LA-47	21-Sep-06	19	C	Temperature, Surface
LA-47	29-Aug-02	19.5	C	Temperature, Surface
LA-47	16-Jun-04	19.5	C	Temperature, Surface
LA-47	9-Jun-05	19.5	C	Temperature, Surface
LA-47	18-Jul-07	19.50	°C	Temperature, Surface
LA-47	16-Jun-00	20	C	Temperature, Surface
LA-47	20-Jun-02	20	C	Temperature, Surface
LA-47	21-Jul-04	20	C	Temperature, Surface
LA-47	15-Jun-06	20	C	Temperature, Surface
LA-47	9-Aug-07	20.00	°C	Temperature, Surface
LA-47	13-Jul-00	20.5	C	Temperature, Surface
LA-47	15-Sep-00	20.5	C	Temperature, Surface
LA-47	13-Sep-01	20.5	C	Temperature, Surface
LA-47	31-Jul-02	20.5	C	Temperature, Surface
LA-47	30-Aug-00	21	C	Temperature, Surface
LA-47	19-Jun-03	21	C	Temperature, Surface
LA-47	15-Sep-04	21	C	Temperature, Surface
LA-47	20-Jul-06	21.5	C	Temperature, Surface
LA-47	7-Aug-03	22	C	Temperature, Surface
LA-47	10-Jul-03	22.5	C	Temperature, Surface
LA-49	14-May-03	13.5	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-49	25-Jan-01	14	C	Temperature, Surface
LA-49	15-Feb-01	14	C	Temperature, Surface
LA-49	13-Dec-01	14	C	Temperature, Surface
LA-49	21-Jan-04	14	C	Temperature, Surface
LA-49	25-Feb-04	14	C	Temperature, Surface
LA-49	16-Feb-06	14.2	C	Temperature, Surface
LA-49	25-Feb-00	14.5	C	Temperature, Surface
LA-49	21-Dec-00	14.5	C	Temperature, Surface
LA-49	22-Dec-04	14.5	C	Temperature, Surface
LA-49	8-Dec-05	14.5	C	Temperature, Surface
LA-49	12-Jan-06	14.5	C	Temperature, Surface
LA-49	3-Oct-00	15	C	Temperature, Surface
LA-49	17-Jan-02	15	C	Temperature, Surface
LA-49	16-Jan-03	15	C	Temperature, Surface
LA-49	19-Feb-03	15	C	Temperature, Surface
LA-49	4-Dec-03	15	C	Temperature, Surface
LA-49	10-Feb-05	15	C	Temperature, Surface
LA-49	13-Apr-06	15	C	Temperature, Surface
LA-49	19-Dec-02	15.5	C	Temperature, Surface
LA-49	4-Sep-03	15.5	C	Temperature, Surface
LA-49	20-Jan-05	15.5	C	Temperature, Surface
LA-49	27-Mar-01	16	C	Temperature, Surface
LA-49	19-Apr-01	16	C	Temperature, Surface
LA-49	21-Feb-02	16	C	Temperature, Surface
LA-49	14-Mar-02	16	C	Temperature, Surface
LA-49	4-Oct-02	16	C	Temperature, Surface
LA-49	13-Nov-02	16	C	Temperature, Surface
LA-49	10-Mar-05	16	C	Temperature, Surface
LA-49	11-May-06	16	C	Temperature, Surface
LA-49	29-Nov-00	16.5	C	Temperature, Surface
LA-49	16-May-02	16.5	C	Temperature, Surface
LA-49	13-Mar-03	16.5	C	Temperature, Surface
LA-49	9-Oct-03	16.5	C	Temperature, Surface
LA-49	19-Nov-03	16.5	C	Temperature, Surface
LA-49	14-Apr-04	16.5	C	Temperature, Surface
LA-49	11-Jan-01	17	C	Temperature, Surface
LA-49	10-Sep-03	17	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-49	17-Mar-04	17	C	Temperature, Surface
LA-49	27-Apr-05	17	C	Temperature, Surface
LA-49	7-Jul-05	17	C	Temperature, Surface
LA-49	16-Nov-05	17	C	Temperature, Surface
LA-49	15-Sep-05	17.5	C	Temperature, Surface
LA-49	13-Oct-05	17.5	C	Temperature, Surface
LA-49	15-Nov-06	17.5	C	Temperature, Surface
LA-49	13-Apr-00	18	C	Temperature, Surface
LA-49	12-May-04	18	C	Temperature, Surface
LA-49	13-Oct-04	18	C	Temperature, Surface
LA-49	10-Nov-04	18	C	Temperature, Surface
LA-49	10-Jan-00	18.5	C	Temperature, Surface
LA-49	5-Nov-01	18.5	C	Temperature, Surface
LA-49	10-Mar-02	18.5	C	Temperature, Surface
LA-49	9-Dec-02	18.5	C	Temperature, Surface
LA-49	5-Dec-00	19	C	Temperature, Surface
LA-49	18-Jul-01	19	C	Temperature, Surface
LA-49	18-Aug-04	19	C	Temperature, Surface
LA-49	11-Aug-05	19	C	Temperature, Surface
LA-49	6-Jul-01	19.5	C	Temperature, Surface
LA-49	10-Dec-01	19.5	C	Temperature, Surface
LA-49	16-Jun-04	19.5	C	Temperature, Surface
LA-49	12-May-05	19.5	C	Temperature, Surface
LA-49	9-Jun-05	19.5	C	Temperature, Surface
LA-49	16-Jun-00	19.7	C	Temperature, Surface
LA-49	20-Jun-02	20	C	Temperature, Surface
LA-49	29-Aug-02	20	C	Temperature, Surface
LA-49	17-Aug-06	20	C	Temperature, Surface
LA-49	21-Sep-06	20	C	Temperature, Surface
LA-49	13-Sep-01	20.5	C	Temperature, Surface
LA-49	21-Jul-04	20.5	C	Temperature, Surface
LA-49	15-Jun-06	20.5	C	Temperature, Surface
LA-49	15-Sep-00	21	C	Temperature, Surface
LA-49	23-Aug-01	21	C	Temperature, Surface
LA-49	31-Jul-02	21	C	Temperature, Surface
LA-49	7-Aug-03	21	C	Temperature, Surface
LA-49	15-Sep-04	21	C	Temperature, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-49	13-Jul-00	21.5	C	Temperature, Surface
LA-49	30-Aug-00	22	C	Temperature, Surface
LA-49	19-Jun-03	22	C	Temperature, Surface
LA-49	20-Jul-06	22	C	Temperature, Surface
LA-49	10-Jul-03	23	C	Temperature, Surface
LA-30	14-May-03	4.00	FT	Transparency, Surface
LA-30	10-Sep-03	4.00	FT	Transparency, Surface
LA-30	16-Feb-06	4.00	FT	Transparency, Surface
LA-30	15-Feb-01	5.00	FT	Transparency, Surface
LA-30	20-Jun-02	5.00	FT	Transparency, Surface
LA-30	16-Jan-03	5.00	FT	Transparency, Surface
LA-30	19-Jun-03	5.00	FT	Transparency, Surface
LA-30	10-Jul-03	5.00	FT	Transparency, Surface
LA-30	25-Feb-04	5.00	FT	Transparency, Surface
LA-30	7-Jul-05	5.00	FT	Transparency, Surface
LA-30	18-Jul-01	6.00	FT	Transparency, Surface
LA-30	19-Feb-03	6.00	FT	Transparency, Surface
LA-30	9-Oct-03	6.00	FT	Transparency, Surface
LA-30	20-Jan-05	6.00	FT	Transparency, Surface
LA-30	10-Feb-05	6.00	FT	Transparency, Surface
LA-30	10-Mar-05	6.00	FT	Transparency, Surface
LA-30	12-Jan-06	6.00	FT	Transparency, Surface
LA-30	13-Apr-06	6.00	FT	Transparency, Surface
LA-30	11-May-06	6.00	FT	Transparency, Surface
LA-30	15-Jun-06	6.00	FT	Transparency, Surface
LA-30	17-Aug-06	6.00	FT	Transparency, Surface
LA-30	9-Aug-07	6.00	ft	Transparency, Surface
LA-30	25-Feb-00	7.00	FT	Transparency, Surface
LA-30	3-Oct-00	7.00	FT	Transparency, Surface
LA-30	5-Nov-01	7.00	FT	Transparency, Surface
LA-30	13-Mar-03	7.00	FT	Transparency, Surface
LA-30	4-Sep-03	7.00	FT	Transparency, Surface
LA-30	19-Nov-03	7.00	FT	Transparency, Surface
LA-30	4-Dec-03	7.00	FT	Transparency, Surface
LA-30	15-Sep-04	7.00	FT	Transparency, Surface
LA-30	12-May-05	7.00	FT	Transparency, Surface
LA-30	9-Jun-05	7.00	FT	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	15-Sep-05	7.00	FT	Transparency, Surface					
LA-30	16-May-07	7.00	ft	Transparency, Surface					
LA-30	18-Jul-07	7.00	ft	Transparency, Surface					
LA-30	19-Dec-07	7.00	ft	Transparency, Surface					
LA-30	14-Feb-08	7.00	ft	Transparency, Surface					
LA-30	17-Apr-08	7.00	ft	Transparency, Surface					
LA-30	13-Apr-00	8.00	FT	Transparency, Surface					
LA-30	30-Aug-00	8.00	FT	Transparency, Surface					
LA-30	6-Jul-01	8.00	FT	Transparency, Surface					
LA-30	17-Jan-02	8.00	FT	Transparency, Surface					
LA-30	16-May-02	8.00	FT	Transparency, Surface					
LA-30	31-Jul-02	8.00	FT	Transparency, Surface					
LA-30	29-Aug-02	8.00	FT	Transparency, Surface					
LA-30	19-Dec-02	8.00	FT	Transparency, Surface					
LA-30	7-Aug-03	8.00	FT	Transparency, Surface					
LA-30	21-Jan-04	8.00	FT	Transparency, Surface					
LA-30	18-Aug-04	8.00	FT	Transparency, Surface					
LA-30	13-Oct-04	8.00	FT	Transparency, Surface					
LA-30	10-Nov-04	8.00	FT	Transparency, Surface					
LA-30	11-Aug-05	8.00	FT	Transparency, Surface					
LA-30	13-Oct-05	8.00	FT	Transparency, Surface					
LA-30	8-Dec-05	8.00	FT	Transparency, Surface					
LA-30	10-Jan-00	9.00	FT	Transparency, Surface					
LA-30	13-Jul-00	9.00	FT	Transparency, Surface					
LA-30	25-Jan-01	9.00	FT	Transparency, Surface					
LA-30	27-Mar-01	9.00	FT	Transparency, Surface					
LA-30	19-Apr-01	9.00	FT	Transparency, Surface					
LA-30	13-Sep-01	9.00	FT	Transparency, Surface					
LA-30	9-Dec-02	9.00	FT	Transparency, Surface					
LA-30	14-Apr-04	9.00	FT	Transparency, Surface					
LA-30	12-May-04	9.00	FT	Transparency, Surface					
LA-30	21-Jul-04	9.00	FT	Transparency, Surface					
LA-30	15-Nov-07	9.00	ft	Transparency, Surface					
LA-30	12-Jun-08	9.00	ft	Transparency, Surface	8.00	9.00	8.80	15	2007-2008
LA-30	21-Dec-00	10.00	FT	Transparency, Surface					
LA-30	23-Aug-01	10.00	FT	Transparency, Surface					
LA-30	13-Dec-01	10.00	FT	Transparency, Surface					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-30	10-Mar-02	10.00	FT	Transparency, Surface					
LA-30	14-Mar-02	10.00	FT	Transparency, Surface					
LA-30	4-Oct-02	10.00	FT	Transparency, Surface					
LA-30	16-Jun-04	10.00	FT	Transparency, Surface					
LA-30	27-Apr-05	10.00	FT	Transparency, Surface					
LA-30	20-Jul-06	10.00	FT	Transparency, Surface					
LA-30	21-Sep-06	10.00	FT	Transparency, Surface					
LA-30	15-Mar-07	10.00	ft	Transparency, Surface					
LA-30	12-Apr-07	10.00	ft	Transparency, Surface					
LA-30	20-Mar-08	10.00	ft	Transparency, Surface					
LA-30	15-May-08	10.00	ft	Transparency, Surface					
LA-30	16-Jun-00	11.00	FT	Transparency, Surface					
LA-30	15-Sep-00	11.00	FT	Transparency, Surface					
LA-30	13-Nov-02	11.00	FT	Transparency, Surface					
LA-30	17-Mar-04	11.00	FT	Transparency, Surface					
LA-30	25-Jan-07	11.00	FT	Transparency, Surface					
LA-30	25-Jan-07	11.00	FT	Transparency, Surface	5.00	11.00	7.96	83	2000-2008
LA-30	7-Feb-07	11.00	ft	Transparency, Surface					
LA-30	24-Oct-07	11.00	ft	Transparency, Surface					
LA-30	17-Jan-08	11.00	ft	Transparency, Surface					
LA-30	29-Nov-00	12.00	FT	Transparency, Surface					
LA-30	21-Feb-02	12.00	FT	Transparency, Surface					
LA-30	10-Dec-01	13.00	FT	Transparency, Surface					
LA-30	22-Dec-04	13.00	FT	Transparency, Surface					
LA-30	15-Nov-06	13.00	FT	Transparency, Surface					
LA-30	1-May-00	14.00	FT	Transparency, Surface					
LA-30	5-Dec-00	15.00	FT	Transparency, Surface					
LA-30	11-Jan-01	15.00	FT	Transparency, Surface					
LA-30	16-Nov-05	15.00	FT	Transparency, Surface					
LA-32B	10-Jul-03	1.00	FT	Transparency, Surface					
LA-32B	7-Aug-03	1.00	FT	Transparency, Surface					
LA-32B	10-Feb-05	1.00	FT	Transparency, Surface					
LA-32B	10-Mar-05	1.00	FT	Transparency, Surface					
LA-32B	19-Jun-03	2.00	FT	Transparency, Surface					
LA-32B	21-Jan-04	2.00	FT	Transparency, Surface					
LA-32B	19-Feb-03	3.00	FT	Transparency, Surface					
LA-32B	13-Mar-03	3.00	FT	Transparency, Surface					

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	19-Nov-03	3.00	FT	Transparency, Surface
LA-32B	16-Jun-04	3.00	FT	Transparency, Surface
LA-32B	27-Apr-05	3.00	FT	Transparency, Surface
LA-32B	12-May-05	3.00	FT	Transparency, Surface
LA-32B	9-Jun-05	3.00	FT	Transparency, Surface
LA-32B	16-Feb-06	3.00	FT	Transparency, Surface
LA-32B	10-Sep-03	4.00	FT	Transparency, Surface
LA-32B	9-Oct-03	4.00	FT	Transparency, Surface
LA-32B	18-Feb-04	4.00	FT	Transparency, Surface
LA-32B	15-Sep-04	4.00	FT	Transparency, Surface
LA-32B	13-Oct-04	4.00	FT	Transparency, Surface
LA-32B	7-Jul-05	4.00	FT	Transparency, Surface
LA-32B	16-May-07	4.00	ft	Transparency, Surface
LA-32B	15-Feb-01	5.00	FT	Transparency, Surface
LA-32B	9-Dec-02	5.00	FT	Transparency, Surface
LA-32B	14-Apr-04	5.00	FT	Transparency, Surface
LA-32B	18-Aug-04	5.00	FT	Transparency, Surface
LA-32B	20-Jan-05	5.00	FT	Transparency, Surface
LA-32B	11-Aug-05	5.00	FT	Transparency, Surface
LA-32B	15-Sep-05	5.00	FT	Transparency, Surface
LA-32B	15-Sep-00	6.00	FT	Transparency, Surface
LA-32B	20-Jun-02	6.00	FT	Transparency, Surface
LA-32B	4-Dec-03	6.00	FT	Transparency, Surface
LA-32B	12-May-04	6.00	FT	Transparency, Surface
LA-32B	15-Jun-06	6.00	FT	Transparency, Surface
LA-32B	20-Jul-06	6.00	FT	Transparency, Surface
LA-32B	17-Aug-06	6.00	FT	Transparency, Surface
LA-32B	15-Mar-07	6.00	ft	Transparency, Surface
LA-32B	18-Jul-07	6.00	ft	Transparency, Surface
LA-32B	25-Jan-01	7.00	FT	Transparency, Surface
LA-32B	19-Apr-01	7.00	FT	Transparency, Surface
LA-32B	18-Jul-01	7.00	FT	Transparency, Surface
LA-32B	13-Sep-01	7.00	FT	Transparency, Surface
LA-32B	10-Mar-02	7.00	FT	Transparency, Surface
LA-32B	17-Mar-04	7.00	FT	Transparency, Surface
LA-32B	21-Jul-04	7.00	FT	Transparency, Surface
LA-32B	10-Nov-04	7.00	FT	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-32B	8-Dec-05	7.00	FT	Transparency, Surface			
LA-32B	12-Jan-06	7.00	FT	Transparency, Surface			
LA-32B	13-Apr-06	7.00	FT	Transparency, Surface			
LA-32B	7-Feb-07	7.00	ft	Transparency, Surface			
LA-32B	19-Dec-07	7.00	ft	Transparency, Surface			
LA-32B	17-Jan-08	7.00	ft	Transparency, Surface			
LA-32B	25-Feb-00	8.00	FT	Transparency, Surface			
LA-32B	3-Oct-00	8.00	FT	Transparency, Surface			
LA-32B	6-Jul-01	8.00	FT	Transparency, Surface			
LA-32B	23-Aug-01	8.00	FT	Transparency, Surface			
LA-32B	13-Oct-05	8.00	FT	Transparency, Surface			
LA-32B	16-Nov-05	8.00	FT	Transparency, Surface			
LA-32B	21-Sep-06	8.00	FT	Transparency, Surface			
LA-32B	25-Jan-07	8.00	FT	Transparency, Surface	1	15	6.855263
LA-32B	25-Jan-07	8.00	FT	Transparency, Surface			
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LA-32B	10-Jan-00	9.00	FT	Transparency, Surface			
LA-32B	13-Jul-00	9.00	FT	Transparency, Surface			
LA-32B	29-Nov-00	9.00	FT	Transparency, Surface			
LA-32B	21-Dec-00	9.00	FT	Transparency, Surface			
LA-32B	27-Mar-01	9.00	FT	Transparency, Surface			
LA-32B	10-Dec-01	9.00	FT	Transparency, Surface			
LA-32B	16-May-02	9.00	FT	Transparency, Surface			
LA-32B	29-Aug-02	9.00	FT	Transparency, Surface			
LA-32B	13-Nov-02	9.00	FT	Transparency, Surface			
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LA-32B	15-Nov-06	10.00	FT	Transparency, Surface			
LA-32B	24-Oct-07	10.00	ft	Transparency, Surface			
LA-32B	15-Nov-07	10.00	ft	Transparency, Surface			
LA-32B	14-Feb-08	10.00	ft	Transparency, Surface			
LA-32B	15-May-08	10.00	ft	Transparency, Surface			
LA-32B	12-Jun-08	10.00	ft	Transparency, Surface			

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-32B	11-Jan-01	13.00	FT	Transparency, Surface
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LA-33	14-Apr-04	6.00	FT	Transparency, Surface
LA-33	8-Dec-05	6.00	FT	Transparency, Surface
LA-33	12-Jan-06	6.00	FT	Transparency, Surface
LA-33	13-Apr-06	6.00	FT	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-33	16-May-07	6.00	ft	Transparency, Surface
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LA-33	27-Apr-05	8.00	FT	Transparency, Surface
LA-33	15-Jun-06	8.00	FT	Transparency, Surface
LA-33	9-Aug-07	8.00	ft	Transparency, Surface
LA-33	24-Oct-07	8.00	ft	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-33	15-Nov-07	11.00	ft	Transparency, Surface			
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LA-35	19-Jun-03	3.00	FT	Transparency, Surface			
LA-35	18-Feb-04	4.00	FT	Transparency, Surface			

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-35	13-Mar-03	8.00	FT	Transparency, Surface
LA-35	12-May-04	8.00	FT	Transparency, Surface
LA-35	21-Jul-04	8.00	FT	Transparency, Surface
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Port of Los Angeles - Inner Harbor Water Quality Data

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LA-35	18-Jul-07	8.00	ft	Transparency, Surface			
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LA-35	15-Sep-00	9.00	FT	Transparency, Surface			
LA-35	27-Mar-01	9.00	FT	Transparency, Surface			
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LA-35	4-Oct-02	10.00	FT	Transparency, Surface			
LA-35	9-Dec-02	10.00	FT	Transparency, Surface			
LA-35	15-Sep-05	10.00	FT	Transparency, Surface			
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LA-35	17-Apr-08	10.00	ft	Transparency, Surface			
LA-35	15-May-08	10.00	ft	Transparency, Surface			
LA-35	12-Jun-08	10.00	ft	Transparency, Surface			
LA-35	10-Jan-00	11.00	FT	Transparency, Surface			
LA-35	11-Jan-01	11.00	FT	Transparency, Surface			
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LA-35	22-Dec-04	11.00	FT	Transparency, Surface			
LA-35	27-Apr-05	11.00	FT	Transparency, Surface			
LA-35	15-Mar-07	11.00	ft	Transparency, Surface			

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-35	17-Jan-08	11.00	ft	Transparency, Surface
LA-35	16-Jun-00	12.00	FT	Transparency, Surface
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LA-35	15-Nov-06	12.00	FT	Transparency, Surface
LA-35	12-Apr-07	12.00	ft	Transparency, Surface
LA-35	20-Mar-08	12.00	ft	Transparency, Surface
LA-35	13-Apr-00	13.00	FT	Transparency, Surface
LA-35	5-Dec-00	13.00	FT	Transparency, Surface
LA-35	13-Oct-05	13.00	FT	Transparency, Surface
LA-35	9-Aug-07	13.00	ft	Transparency, Surface
LA-35	21-Dec-00	14.00	FT	Transparency, Surface
LA-35	13-Oct-04	14.00	FT	Transparency, Surface
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LA-39	4-Dec-03	6.00	FT	Transparency, Surface
LA-39	11-Aug-05	6.00	FT	Transparency, Surface
LA-39	12-Apr-07	6.00	ft	Transparency, Surface
LA-39	16-May-07	6.00	ft	Transparency, Surface
LA-39	25-Feb-00	7.00	FT	Transparency, Surface
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Port of Los Angeles - Inner Harbor Water Quality Data

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LA-39	27-Apr-05	9.00	FT	Transparency, Surface
LA-39	13-Oct-05	9.00	FT	Transparency, Surface
LA-39	16-Nov-05	9.00	FT	Transparency, Surface
LA-39	8-Dec-05	9.00	FT	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-39	17-Aug-06	9.00	FT	Transparency, Surface			
LA-39	19-Dec-07	9.00	ft	Transparency, Surface			
LA-39	20-Mar-08	9.00	ft	Transparency, Surface			
LA-39	16-Jun-00	10.00	FT	Transparency, Surface			
LA-39	13-Jul-00	10.00	FT	Transparency, Surface			
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LA-39	7-Feb-07	12.00	ft	Transparency, Surface			
LA-39	15-Nov-07	12.00	ft	Transparency, Surface			
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LA-39	27-Mar-01	13.00	FT	Transparency, Surface			
LA-39	13-Nov-02	13.00	FT	Transparency, Surface			
LA-39	19-Dec-02	13.00	FT	Transparency, Surface			

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-39	21-Feb-02	14.00	FT	Transparency, Surface
LA-39	10-Mar-02	14.00	FT	Transparency, Surface
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LA-39	13-Dec-01	15.00	FT	Transparency, Surface
LA-39	13-Oct-04	17.00	FT	Transparency, Surface
LA-41	19-Dec-07	1.00	ft	Transparency, Surface
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LA-41	13-Dec-01	5.00	FT	Transparency, Surface
LA-41	19-Feb-03	5.00	FT	Transparency, Surface
LA-41	19-Jun-03	5.00	FT	Transparency, Surface
LA-41	10-Jul-03	5.00	FT	Transparency, Surface
LA-41	10-Sep-03	5.00	FT	Transparency, Surface
LA-41	11-May-06	5.00	FT	Transparency, Surface
LA-41	25-Feb-00	6.00	FT	Transparency, Surface
LA-41	20-Jun-02	6.00	FT	Transparency, Surface
LA-41	13-Mar-03	6.00	FT	Transparency, Surface
LA-41	4-Sep-03	6.00	FT	Transparency, Surface
LA-41	10-Mar-05	6.00	FT	Transparency, Surface
LA-41	7-Jul-05	6.00	FT	Transparency, Surface
LA-41	15-Sep-05	6.00	FT	Transparency, Surface
LA-41	30-Aug-00	7.00	FT	Transparency, Surface
LA-41	18-Jul-01	7.00	FT	Transparency, Surface
LA-41	14-May-03	7.00	FT	Transparency, Surface
LA-41	12-May-04	7.00	FT	Transparency, Surface
LA-41	10-Feb-05	7.00	FT	Transparency, Surface
LA-41	12-May-05	7.00	FT	Transparency, Surface
LA-41	12-Apr-07	7.00	ft	Transparency, Surface
LA-41	13-Jul-00	8.00	FT	Transparency, Surface
LA-41	13-Sep-01	8.00	FT	Transparency, Surface
LA-41	5-Nov-01	8.00	FT	Transparency, Surface
LA-41	16-May-02	8.00	FT	Transparency, Surface
LA-41	29-Aug-02	8.00	FT	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

LA-41	19-Dec-02	8.00	FT	Transparency, Surface			
LA-41	7-Aug-03	8.00	FT	Transparency, Surface			
LA-41	15-Sep-04	8.00	FT	Transparency, Surface			
LA-41	8-Dec-05	8.00	FT	Transparency, Surface			
LA-41	15-Jun-06	8.00	FT	Transparency, Surface			
LA-41	25-Jan-01	9.00	FT	Transparency, Surface			
LA-41	31-Jul-02	9.00	FT	Transparency, Surface			
LA-41	4-Oct-02	9.00	FT	Transparency, Surface			
LA-41	9-Dec-02	9.00	FT	Transparency, Surface			
LA-41	19-Nov-03	9.00	FT	Transparency, Surface			
LA-41	4-Dec-03	9.00	FT	Transparency, Surface			
LA-41	25-Feb-04	9.00	FT	Transparency, Surface			
LA-41	17-Mar-04	9.00	FT	Transparency, Surface			
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LA-41	21-Jul-04	9.00	FT	Transparency, Surface			
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LA-41	25-Jan-07	9.00	FT	Transparency, Surface	1	17	9.037037
LA-41	25-Jan-07	9.00	FT	Transparency, Surface			
LA-41	12-Jun-08	9.00	ft	Transparency, Surface			
LA-41	27-Mar-01	10.00	FT	Transparency, Surface			
LA-41	19-Apr-01	10.00	FT	Transparency, Surface			
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LA-41	7-Feb-07	10.00	ft	Transparency, Surface			
LA-41	16-May-07	10.00	ft	Transparency, Surface			
LA-41	15-Nov-07	10.00	ft	Transparency, Surface			
LA-41	17-Apr-08	10.00	ft	Transparency, Surface			
LA-41	10-Jan-00	11.00	FT	Transparency, Surface			

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-41	16-Jun-00	11.00	FT	Transparency, Surface
LA-41	15-Sep-00	11.00	FT	Transparency, Surface
LA-41	15-Sep-00	11.00	FT	Transparency, Surface
LA-41	3-Oct-00	11.00	FT	Transparency, Surface
LA-41	29-Nov-00	11.00	FT	Transparency, Surface
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LA-41	14-Feb-08	11.00	ft	Transparency, Surface
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LA-44	12-Jan-06	4.00	FT	Transparency, Surface
LA-44	15-Feb-01	5.00	FT	Transparency, Surface
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Port of Los Angeles - Inner Harbor Water Quality Data

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LA-44	18-Jul-01	9.00	FT	Transparency, Surface			
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LA-44	16-May-02	9.00	FT	Transparency, Surface			
LA-44	13-Nov-02	9.00	FT	Transparency, Surface			
LA-44	19-Dec-02	9.00	FT	Transparency, Surface			
LA-44	18-Aug-04	9.00	FT	Transparency, Surface			
LA-44	10-Nov-04	9.00	FT	Transparency, Surface			
LA-44	20-Jan-05	9.00	FT	Transparency, Surface			
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LA-44	16-Jun-00	10.00	FT	Transparency, Surface			

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-44	16-May-07	10.00	ft	Transparency, Surface
LA-44	24-Oct-07	10.00	ft	Transparency, Surface
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LA-44	11-Aug-05	11.00	FT	Transparency, Surface
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LA-44	12-Jun-08	11.00	ft	Transparency, Surface
LA-44	13-Apr-00	12.00	FT	Transparency, Surface
LA-44	21-Feb-02	12.00	FT	Transparency, Surface
LA-44	4-Dec-03	12.00	FT	Transparency, Surface
LA-44	13-Oct-05	12.00	FT	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-44	18-Jul-07	12.00	ft	Transparency, Surface
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LA-46	13-Mar-03	7.00	FT	Transparency, Surface
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LA-46	18-Aug-04	7.00	FT	Transparency, Surface
LA-46	10-Mar-05	7.00	FT	Transparency, Surface
LA-46	1-May-00	8.00	FT	Transparency, Surface
LA-46	15-Sep-04	8.00	FT	Transparency, Surface
LA-46	10-Feb-05	8.00	FT	Transparency, Surface
LA-46	8-Dec-05	8.00	FT	Transparency, Surface
LA-46	15-Nov-07	8.00	ft	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-46	13-Nov-02	9.00	FT	Transparency, Surface			
LA-46	19-Dec-02	9.00	FT	Transparency, Surface			
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LA-46	20-Jan-05	9.00	FT	Transparency, Surface			
LA-46	7-Jul-05	9.00	FT	Transparency, Surface			
LA-46	15-Sep-05	9.00	FT	Transparency, Surface			
LA-46	13-Apr-06	9.00	FT	Transparency, Surface			
LA-46	10-Jan-00	10.00	FT	Transparency, Surface			
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LA-46	25-Jan-01	10.00	FT	Transparency, Surface			
LA-46	5-Nov-01	10.00	FT	Transparency, Surface			
LA-46	13-Dec-01	10.00	FT	Transparency, Surface			
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LA-46	7-Aug-03	10.00	FT	Transparency, Surface			
LA-46	10-Sep-03	10.00	FT	Transparency, Surface			
LA-46	19-Nov-03	10.00	FT	Transparency, Surface			
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LA-46	30-Aug-00	11.00	FT	Transparency, Surface			
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LA-46	27-Mar-01	11.00	FT	Transparency, Surface			
LA-46	19-Apr-01	11.00	FT	Transparency, Surface			
LA-46	18-Jul-01	11.00	FT	Transparency, Surface			

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-46	7-Feb-07	15.00	ft	Transparency, Surface
LA-46	15-Mar-07	15.00	ft	Transparency, Surface
LA-46	14-Feb-08	15.00	ft	Transparency, Surface
LA-46	17-Apr-08	15.00	ft	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-46	9-Aug-07	16.00	ft	Transparency, Surface
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LA-47	18-Jul-01	8.00	FT	Transparency, Surface
LA-47	21-Feb-02	8.00	FT	Transparency, Surface
LA-47	16-May-02	8.00	FT	Transparency, Surface
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Port of Los Angeles - Inner Harbor Water Quality Data

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LA-47	10-Jan-00	11.00	FT	Transparency, Surface
LA-47	15-Sep-00	11.00	FT	Transparency, Surface
LA-47	29-Nov-00	11.00	FT	Transparency, Surface
LA-47	27-Mar-01	11.00	FT	Transparency, Surface

Port of Los Angeles - Inner Harbor Water Quality Data

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LA-47	4-Dec-03	11.00	FT	Transparency, Surface			
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LA-47	11-Aug-05	11.00	FT	Transparency, Surface			
LA-47	13-Oct-05	11.00	FT	Transparency, Surface			
LA-47	7-Feb-07	11.00	ft	Transparency, Surface			
LA-47	16-May-07	11.00	ft	Transparency, Surface			
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LA-47	24-Oct-07	11.00	ft	Transparency, Surface			
LA-47	14-Feb-08	11.00	ft	Transparency, Surface			
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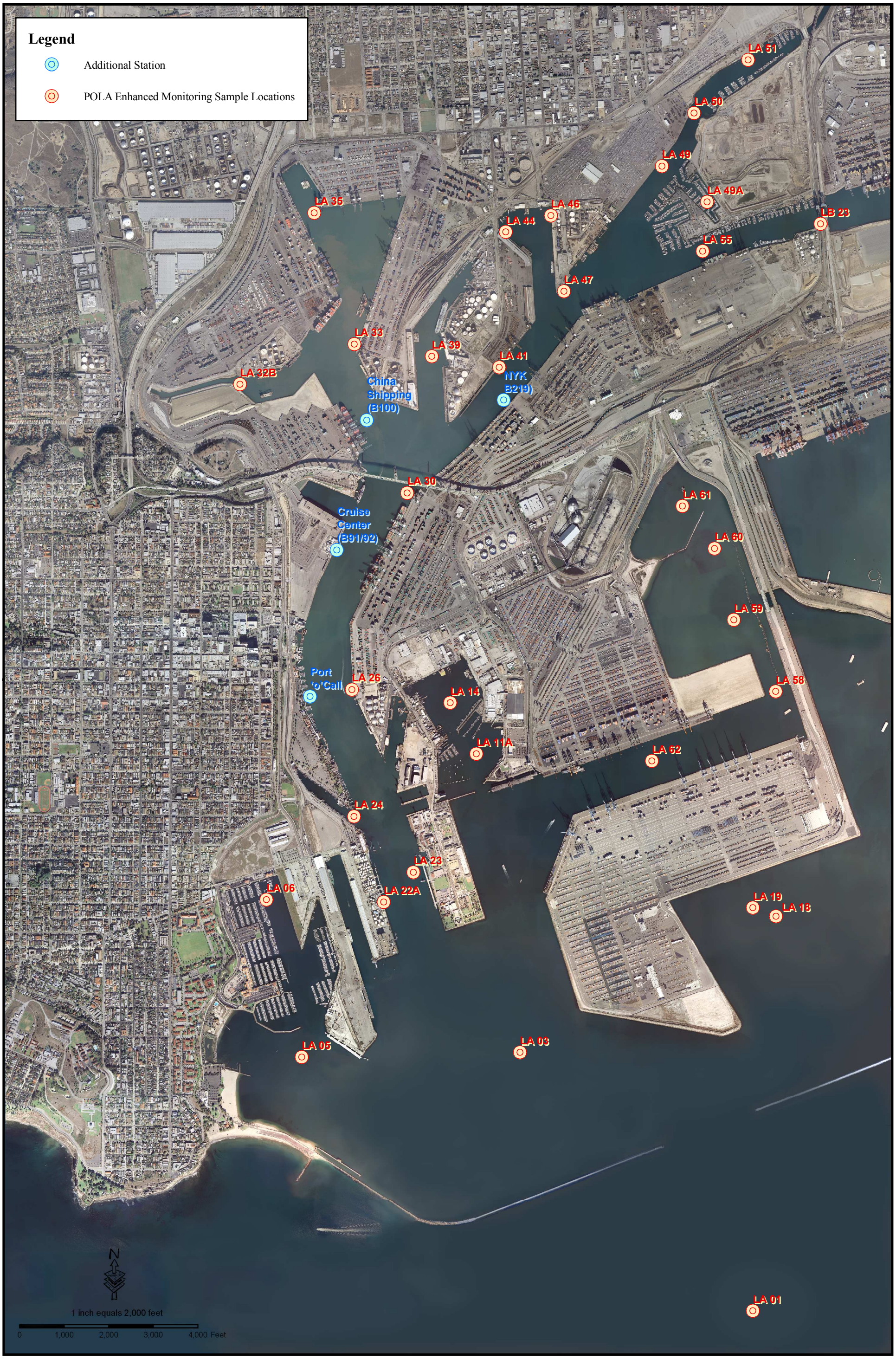
LA-47	11-Jan-01	12.00	FT	Transparency, Surface			
LA-47	16-Jun-04	12.00	FT	Transparency, Surface			
LA-47	25-Jan-07	12.00	FT	Transparency, Surface	5	12	8.890244
LA-47	25-Jan-07	12.00	FT	Transparency, Surface			
LA-47	17-Jan-08	12.00	ft	Transparency, Surface			
LA-47	14-Mar-02	13.00	FT	Transparency, Surface			
LA-47	13-Oct-04	13.00	FT	Transparency, Surface			
LA-47	15-May-08	13.00	ft	Transparency, Surface			
LA-47	22-Dec-04	14.00	FT	Transparency, Surface			
LA-47	16-Nov-05	14.00	FT	Transparency, Surface			
LA-47	12-Apr-07	14.00	ft	Transparency, Surface			
LA-47	1-May-00	15.00	FT	Transparency, Surface			
LA-47	17-Apr-08	15.00	ft	Transparency, Surface			



Enhanced Monthly Water Quality Study Station Locations
March 2008

FIGURE
1

z:\croix\sd04\aquatics\pola_wq\mxd\LAStations_final.mxd

03/13/08

Final Report
Sediment Characterization for Ocean or Harbor Disposal Berths 145 through 147 Port of Los Angeles

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LIST OF ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Earth & Environmental, Inc.
ASTM	American Society for Testing and Materials
BP	bioaccumulation phase
comp	composite
COPC	chemical of potential concern
CTR	California Toxics Rule
CTV	critical tissue values
DGPS	differential global positioning system
Dry wt.	dry weight
EC_{50}	median effects concentration
EPA	U.S. Environmental Protection Agency
ERL	effects range-low
ERV	ecotoxicity reference value
ERM	effects range-median
ft	feet
g	gram
ITM	*Inland Testing Manual*
kg	kilogram
L	liter
LOEC	lowest observable effects concentration
LPC	limiting permissible concentration
µg	microgram
mg	milligram
MLLW	mean lower low water
ND	not detected
NOEC	no observed effects concentration
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
Port	Port of Los Angeles
PSDDA	Puget Sound Dredge Disposal Analysis Program
SAP	sampling and analysis plan
SP	solid phase
SPP	suspended particulate phase
St. Dev.	standard deviation
TBT	tributyltin
TRPH	total recoverable petroleum hydrocarbons
TS	total solids
USACE	U.S. Army Corps of Engineers
Wet wt.	wet weight

1.0 INTRODUCTION

The Port of Los Angeles (Port) is proposing improvements to the existing wharf and backlands of Berths 145 through 147 to accommodate berthing of deeper draft ships. Berths 145 through 147 are located in the West Basin of the Port of Los Angeles, Los Angeles County, California (Figure 1). The project includes dredging approximately 266,500 cubic yards of sediment. AMEC Earth & Environmental, Inc. (AMEC), has been contracted by the Port to conduct a sediment characterization study of the area to determine whether ocean or harbor disposal are appropriate options for the sediments. Disposal is proposed at either the U.S. Environmental Protection Agency (EPA)-approved LA-2 Ocean Dredged Material Disposal Site (LA-2) or at an undetermined in-harbor aquatic disposal location (Figure 2).

This study is based on the protocols described in the document *Evaluation of Dredged Material Proposed for Ocean Disposal* (*Green Book*) (EPA/U.S. Army Corps of Engineers [USACE] 1991), the *Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S.* (*Inland Testing Manual* [*ITM*]) (EPA/USACE 1998), and regional guidance of the EPA Region 9 (EPA 1991). The aforementioned guidance documents present an outline for three-tiered effects-based testing to determine disposal option acceptability for dredged materials. A Tier III evaluation has been selected based on potential sources of contamination near the project site as indicated in previous sediment characterization reports for areas offshore Berths 144 and 147 (Ogden 1996a, Ogden 1996b).

2.0 METHODS AND MATERIALS

Sediment collection, handling, and preservation activities followed the procedures outlined in the site-specific Sampling and Analysis Plan (SAP) (AMEC 2002).

2.1 Marine Sediment Collection

A differential global positioning system (DGPS) was used to locate predetermined station locations (Figures 3 and 4) and mark them with a weighted buoy. After positioning Seaventure Inc.'s vessel, *Early Bird*, on station, the boat was double-tied to docks and/or anchors to maintain its position. Once secured, the position was recorded in the field log and the water depth was measured with a weighted fiberglass tape. The depth was corrected to mean lower low water (MLLW) using National Oceanic and Atmospheric Administration tide tables and the sampling depth confirmed.

TEG Oceanographic Services, Inc.'s vibracore was used to sample sediments aboard the *Early Bird*. The vibracore used a 4-inch-diameter aluminum tube connected to a stainless steel cutter. The aluminum-encased vibrating unit used electricity (240-volt, 3-phase, 26-amp) to drive two outer-rotating vibrators. The vibracore's head and tube were lowered by a hydraulic winch and vibrated until penetration to project depth was achieved. Core penetration depth was calculated with a tape measure attached to the vibracore's head. The vibracore was then turned off and the tube extracted from the sediment and returned to the vessel.

INSERT FIGURE 1

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INSERT FIGURE 2

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INSERT FIGURE 3

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INSERT FIGURE 4

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After collection, samples were extruded on the vessel into clean, polyethylene-lined trays. Each core was photographed and the unique strata were identified and noted. Samples were logged, and sediments for chemical analysis were placed into a clean stainless steel stockpot for compositing. Thorough compositing was achieved with the use of a stainless steel impeller.

Descriptions of sediment samples, field conditions, and meteorological conditions were recorded in the field log as described in the SAP (AMEC 2002). Table 1 summarizes the field log data. A copy of the core log is provided in Appendix A.

Table 1
Summary of Field Log Data

Site	Coring Location	Number of Cores	Position (Latitude, Longitude)	Target Recovery (ft)	Average Core Recovery (ft)[1]	Comments
1	1	1	33°45.655 118°16.389	8	7	From top of core – 0.5' dk gray silt – 0.5' green/blue fine/medium sand – 2' compact blue fine sand (more compact and finer w/depth) – bottom 3.5' very compact blue gray clay.
1	2	2	33°45.634 118°16.403	12.5	4.5	Top 2' drk gray/blk bottom 3' fine gray sand. At transition between dark gray silt & gray sand is some black sand.
1	3		33°45.691 118°16.385	8	4.5	Top of core – 0.5' gr silt, 0.5' blk silt w/oil staining, 1' gr silt/clay. Bottom 2' dk gr fine sand w/ some clay layers, 0.5' gr/blue fine sand/clay – compact.
1	4	3	33°45.708 118°16.368	10	4.25	Top 1.5' drk gray/blk silt, middle drk gray silty clay. Bottom 1.5' fine gray sand.
1	5	2	33°45.739 118°16.372	7	5	Top of core – 0.5/ gr/blk med sand, 0.5' gr fine sand w/ some clay. Then 2' dk gr fine sand. Bottom 3.5' gr fine sand. Black mass, 2" long @ 2' w/petroleum odor. Core 2 dark gray fine sand, slightly coarser in middle 1', loose top 6".
2	1	1	33°45.497 118°16.456	18	10	Top of core 1.5' dk gr silt w/some clay, 0.5' gr/blk fine sand, 1' gr clay w/shell hash. Bottom, 7' gr clay.

Table 1 (continued)
Summary of Field Log Data

Site	Coring Location	Number of Cores	Position (Latitude, Longitude)	Target Recovery (ft)	Average Core Recovery (ft)[1]	Comments
2	2	1	33°45.531 118°16.450	13	13	Top 1.5 ft dark gray w/shell hash at top, next 3 ft dark gray/light gray silt, next 0.5 ft dark gray clay w/black silt w/oil odor, next 1 ft dark gray clay; bottom 7 ft gray consolidated clay.
2	3	1	33°45.559 118°16.426	18	9	Top 4 ft dark gray silt w/some clay. Middle 1 ft dark gray clay w/silt. Bottom 4 ft firm dark gray clay silt.
2	4	1	33°45.583 118°16.427	10.5	11	Top 6.5 ft dark gray clay w/silt. Bottom 5 ft dark gray clay w/silt w/some shell.
2	5		33°45.609 118°16.412	14.5	6.5	Top 2.5 ft gray silt, next 1 ft mixed black fine sand & green clay, next 0.5 ft green gray clay; bottom 2.5 ft clay/silt. Very compact 1 ft above bottom w/shell hash.
2	6		33°45.484 118°16.452	15	14	Top 4.5 ft dark gray/black silt w/mussel hash top 2 ft. Middle 3 ft dark gray mixed w/fine sand/silt - some shell hash and oil odor. Bottom 5.5 ft dark gray, loose clay.

[1] length of cores varied between cores taken at a single station.

2.2 Sediment Handling and Analyses

Each core was homogenized independently and subsampled for physical and chemical testing. All sediment from within each site were then composited and subsampled for the same suite of physical and chemical analyses. Subsamples were collected in Teflon®-lined, labeled jars and were subsequently stored at 4°C. Five (Site 1) or six (Site 2) core-composite samples were sent in iced coolers along with the site-composite samples to Calscience Environmental Laboratories (Calscience) and CRG Laboratories (CRG) for physical and chemical analyses. The remainder of the site-composite material was retained and stored at 4°C until bioassay and bioaccumulation testing commenced. A complete set of archived samples was retained and frozen for possible additional testing. The sediment samples submitted to Calscience were analyzed for the physical and chemical constituents listed in Table 2.

Table 2
Recommended Methods for Sample Preparation, Analysis, Detection Limits and Reporting Limits for Sediments, Tissues, and Elutriates

Analyte	Preparation Method	Analysis Method	Sediment Target Detection Limit[a]	Tissue Target Detection Limit[a]	Elutriate Reporting Limits[b] (mg/L)
Total Solids (%)	-	160.3	0.1	0.1	-
Total Organic Carbon (%)	Acidify to release carbonates	9060	0.01	-	-
Total Ammonia (mg/kg)	-	350.2M[c]	0.2	-	-
Total & Soluble Sulfides (mg/kg)	Zinc acetate preserve	376.2M[c]	0.1	-	-
Grain Size (%)	-	ASTM D422-63[d] Plumb[e]	0.1	-	-
Arsenic (mg/kg)	3051[f]	6020[f]	0.1	0.25	0.001
Cadmium (mg/kg)	3051[f]	6020[f]	0.1	0.1	0.001
Chromium (mg/kg)	3051[f]	6020[f]	0.1	0.02	0.001
Copper (mg/kg)	3051[f]	6020[f]	0.1	0.1	0.001
Lead (mg/kg)	3051[f]	6020[f]	5.0	1.0	0.001
Mercury (mg/kg)	Total Digestion	7471A[f]	0.02	0.02	0.0005
Nickel (mg/kg)	3051[f]	6020[f]	0.1	1.0	0.001
Selenium (mg/kg)	3051[f]	6020[f]	0.1	0.5	0.001
Silver (mg/kg)	3051[f]	6020[f]	0.2	1.0	0.001
Zinc (mg/kg)	3051[f]	6020[f]	2.0	1.0	0.005
TRPH (mg/kg)	-	418.1M[f]	5.0	5.0	-
PAHs[g] µg/kg)	3550A[f]	8270C[f]	20	20	1.0 - 13
Organochlorine Pesticides[h] (µg/kg)	3550A[f]	8081A/8082[f]	0.5 - 30	0.5 - 25	0.1
PCBs[i](µg/kg)	3550A[f]	8082[f]	20	20	1.0
Phenols (mg/kg)	3545[f]	8270C	20 - 100	-	5.0 - 25
Phthalates (mg/kg)	3545[f]	8270C	10	-	5.0
Organotins (µg/kg)	Rice et al.[j]	Rice et al.[j]	1	-	-

[a] Sediment minimum detection limits are on a dry-weight basis. Tissue minimum detection limits are on a wet-weight basis. To achieve the recommended minimum detection limit for some compounds in sediment, it may be necessary to use a larger sample size than the method describes, a smaller extract volume for gas chromatography/mass spectrometry analyses, and one of the recommended sample cleanup methods, as necessary, to reduce interference.

[b] Reporting Limits provided by Calscience Environmental Laboratories, Inc.

[c] Standard Methods for the Examination of Water and Wastewater, 19th Edition 1995.

[d] ASTM D1234.

[e] Procedures for Handling and Chemical Analysis of Sediment and Water Samples, Russell H. Plumb, Jr., EPA/CE-81-1, May, 1981, Particle Size, Method 2, apparent particle-size distribution.

[f] SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, Revision 3 (Nov. 1986), as amended by Updates I (Jul 1992), II (Sep 1994), IIA (Aug 1993), IIB (Jan 95), and III (Dec 96).

[g] Includes 14 PAH compounds (LPAHs: naphthalene, acenaphthylene, acenaphthene, fluorene, phenanthrene) and (HPAHs: fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b,k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)pyrene, dibenzo(a,h)anthracene, benzo(g,h,i)perylene).

[h] Includes Aldrin, α-BHC, β-BHC, γ-BHC (Lindane), δ-BHC, Chlordane, 4,4-DDD, 4,4-DDE, 4,4-DDT, Dieldrin, Endosulfan I and II, Endosulfan sulfate, Endrin, Endrin aldehyde, Heptachlor, Heptachlor epoxide, and Toxaphene.

[i] Includes Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260, and 1262.

[j] Rice, C.D., F.A. Espourteille, and R.J. Huggett. 1987. Analysis of tributyltin in estuarine sediments and oyster tissue, *Crassostrea virginica*. Applied Organometallic Chemistry, 1:541-544.

ASTM = American Society for Testing and Materials
HPAH = high-molecular-weight polycyclic aromatic hydrocarbon
LPAH = low-molecular-weight polycyclic aromatic hydrocarbon
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
TRPH = total recoverable petroleum hydrocarbons

2.2.1 Elutriate Testing

The elutriate test solution was prepared by mixing seawater and test sediment to yield a volumetric sediment:water ratio of 1:4. Seawater used in tests was collected at Scripps Institution of Oceanography and transported to AMEC's Bioassay Laboratory in San Diego, California. Mechanical mixing, using a stainless steel impeller, was applied to vigorously agitate the mixture for 30 minutes. After a 1-hour settling period, the supernatant was drained from the top of the mixing chamber. The mixture was filtered through a 0.45-micrometer Millipore filter prior to testing.

2.3 Bioassay Testing

Bioassays were conducted on composite sediment samples from both test sites and the two reference sites. The test series included three types of bioassays: (1) solid phase, (2) suspended-particulate phase, and (3) bioaccumulation phase. Each of these tests was performed in accordance with the *Green Book*, the *ITM*, and EPA Region 9's General Requirements for Sediment Testing of Dredged Material Proposed for Ocean Dumping (EPA 1991). Seawater used for all bioassay analyses was also collected at Scripps.

2.3.1 Test Organisms

Table 3 provides a list of the organisms tested in the three-phase bioassay series. Test organisms underwent a holding period under laboratory and test conditions prior to test initiation. During the initial 48-hour acclimation period, test animals were slowly exposed to laboratory water, test temperature, and other test and laboratory conditions. Test organism health and acceptability were determined to be within normal limits and testing proceeded as planned.

Table 3
Test Species

Test Organism	Taxon	SPP	SP	BP
Bivalve Larvae	*Mytilus edulis*	X		
Silverside	*Menidia beryllina*	X		
Mysid shrimp	*Americamysis bahia**	X	X	
Amphipod	*Ampelisca abdita*		X	
Polychaete	*Nereis virens*			X
Mollusk	*Macoma nasuta*			X

SPP – suspended particulate phase
SP – solid phase
BP – bioaccumulation phase
*formerly *Mysidopsis bahia*

2.3.2 Solid Phase Toxicity Tests

Ten-day amphipod and mysid shrimp tests were conducted under static renewal conditions in 1-liter glass beakers according to the protocol described in American Society for Testing and Materials (ASTM) (1990). Tests were prepared with the addition of a 2-centimeter layer of control, reference, or test sediment and 950 milliliters of clean seawater into each test beaker. Gentle aeration was added to each chamber through a 1-milliliter, cotton-plugged pipette.

Twenty amphipods were distributed randomly to each beaker, with 5 replicates exposed to each sediment treatment. After 10 days, test animals were removed by gently sieving the contents of each beaker through a nitex mesh screen. Animals were collected on the screen and final counts were made.

The mysid test was conducted with 10 individuals distributed randomly per replicate container. After 10 days, test animals were removed by gently sieving the contents of each beaker through a nitex mesh screen. Animals were collected on the screen and final counts were made.

2.3.3 Suspended Particulate Phase Toxicity Tests

The test solution used in the suspended-particulate phase bioassays was prepared by mixing seawater and test sediment to yield a volumetric sediment:water ratio of 1:4. Mechanical mixing, using a stainless steel impeller, was applied to vigorously agitate the mixture for 30 minutes. After a 1-hour settling period, the supernatant was drained from the top of the mixing chamber. This material was considered to be 100 percent elutriate and was used to mix the concentrations used for all suspended-particulate phase testing.

The 100 percent elutriate was diluted with clean seawater to prepare the four test concentrations, which were 0 percent (control, no supernatant), 10, 50, and 100 percent supernatant solutions. The test material was distributed to individual test chambers, and initial water quality readings were taken. Readings included dissolved oxygen, pH, temperature, ammonia, and salinity. If dissolved oxygen was found to be below 60 percent of saturation, all

test chambers were aerated. Testing was initiated by randomly adding test organisms to individual test chambers. Water quality was monitored daily thereafter to ensure proper and constant test conditions and was found to be acceptable.

2.3.4 Bioaccumulation Phase

Bioaccumulation testing was performed using the polychaete worm (*Nereis virens*) and the bent-nose clam (*Macoma nasuta*) over a 28-day test period under flow-through conditions. Testing was initiated using reference and test sediments in the same manner as described for the 10-day solid phase tests. For this test, however, 10-gallon glass aquariums were stocked with 10 polychaete worms and 35 clams per replicate. This number of organisms is necessary to generate the amount of biomass necessary to conduct all the required chemical analyses. The chambers were maintained under flow-through conditions and daily water quality measurements were taken on each chamber as specified in the 28-day test.

Upon test termination, the reference and test sediments were sieved to remove the worms and clams. Surviving animals were placed, by replicate, in clean sand in an aquarium and held under flow-through conditions to depurate for 24 hours. Sediments eliminated by the animals during depuration were removed periodically. Following depuration, animals were carefully removed from the holding chambers, placed into labeled, zipper-sealed plastic storage bags, and frozen. Each bag was assigned a random number. Frozen test tissue was transported to CRG for chemical analyses.

A suite of chemical analyses similar to that used to test sediments was applied to the bioaccumulation tissue samples. The constituents analyzed, along with their respective target detection limits, are included in Table 2.

2.4 Statistical Analyses

Statistical analyses were used to evaluate all test results following the guidelines in the *Green Book* and *ITM*. In cases where average survival in the test medium equals or exceeds that of the reference, no statistical analysis was performed. Dunnett's test using the statistical software TOXCALC (Tidepool 1992) was conducted on suspended-particulate phase results to assess significant reductions in fish and mysid shrimp survival or normality in bivalve larvae test. A one-tailed *t*-test using the Microsoft Excel data management tool was used for solid phase test results comparing the test exposure mean survival values to the mean reference values.

Statistical analysis of the bioaccumulation test data compared tissue concentrations from animals held in reference sediments to concentrations from tissues exposed to test sediments. Significance was determined with a one-tailed *t*-test using the Microsoft Excel data management tool. For treatment units with analytes measured below the detection limit, statistical tests were carried out using an average of the concentrations from replicates in which the analyte was detected. In this case, a minimum of three replicates with concentrations above the detection limit was required for statistical testing, and an assumption of unequal variance was adopted as an assumption for the test. In cases where reference tissue levels exceeded treatment levels, no statistical analyses were performed.

3.0 RESULTS

3.1 Field Collection

Field sampling was undertaken on 4 and 5 December 2002. Field logs are included in Appendix A and photographic documentation of the core samples is included in Appendix B.

3.2 Physical Results

The results of the grain size analyses are presented in Table 4. The majority of Site 1 and the Harbor Reference material was found to be primarily fine-fraction sediments whereas the majority of the Site 2 and Ocean Reference sediments were mostly sand. The laboratory grain size data sheets are contained in Appendix C. Additional general chemistry data is presented in Table 5.

Table 4
Grain Size

Particle Size	Units	Site 1 Composite	Site 2 Composite	Ocean Reference Site	Harbor Reference Site
Sand (>74µm)	%	18	65	55	22
Fines (<74µm)	%	82	35	45	78

Table 5
General Chemistry Summary

Parameter	Site 1						Reference Sites	
	1-1	1-2	1-3	1-4	1-5	1-Comp	Ocean	Harbor
Total Solids (TS), %	66.9	74.9	68.6	69.8	76.8	74.4	75.6	60.8
Total Organic Carbon, % dry wt.	1.69	0.18	1.17	1.6	0.16	1.86	0.56	1.12
Total Sulfides, mg/kg	ND	4.0	20	2.9	0.39	4.3	ND	0.49
Soluble Sulfides, mg/kg	ND	ND	ND	ND	ND	ND	ND	ND
Ammonia-N, mg/kg	6.3	ND	4.9	2.0	0.73	2.6	5.0	2.3

Parameter	Site 2							Reference Sites	
	2-1	2-2	2-3	2-4	2-5	2-6	2-Comp	Ocean	Harbor
Total Solids (TS), %	64.9	63.7	63.5	64.9	69.4	61.8	65.1	75.6	60.8
Total Organic Carbon, % dry wt.	0.68	0.87	1.91	2.06	1.75	1.84	0.97	0.56	1.12
Total Sulfides, mg/kg	3.6	12	11	7.1	3.5	2.9	15	ND	0.49
Soluble Sulfides, mg/kg	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammonia-N, mg/kg	38	29	25	21	5.5	37	21	5.0	2.3

ND = Not Detected within reporting limits
Comp = composite

3.3 Bulk Sediment Chemistry Results

The chemical levels obtained in this study have been compared to the effects range-low (ERL) and the effects range-median (ERM) values. ERLs and ERMs were developed by comparing toxicity effects and chemistry results for numerous studies (Long et al. 1995) and are used as rough benchmarks indicating possible toxicity. The ERL is calculated as the lower 10th percentile concentration of the available sediment data identified as toxic by the original studies investigators (Buchman 1999). The ERM is the median concentration of the compiled data. Original laboratory sediment chemistry reports are included in Appendix D.

Metal and General Chemistry

The variety of metals detected in individual core samples was generally reflected in the composite sample values. A summary of the results is found in Table 6. Site 1 sediments did not exceed any metal ERM values, though some individual core samples exceeded ERL values for copper, nickel, and mercury. Mercury was the only metal to exceed the ERL in the Site 1 composite sample. Site 2 sediments generally exceeded ERL values for arsenic, copper, nickel, and mercury. Sporadic ERL exceedances for lead were also observed in Site 2 individual core sediments. Although the ERM for mercury (0.71 mg/kg) was exceeded only in Core 2 of Site 2 (0.895 mg/kg), exceedance was also observed in the Site 2 composite (0.746 mg/kg).

Organic Chemistry

A summary of the organic chemistry results can also be found in Table 6. Of the chlorinated pesticides, only DDT and its derivatives were detected in the sediment samples. DDT and its derivatives were detected in all of the Site 1 core samples, the Site 1 composite sample, five of the six Site 2 core samples, and the Site 2 composite sample. Of those samples, the ERL for total DDTs was exceeded in four of the five Site 1 core samples, the Site 1 composite sample, four of the six Site 2 core samples, and the Site 2 composite sample. Total DDTs were detected in both reference sites between the ERL and ERM values. The total DDTs' ERM value was not exceeded in any of the samples.

Polychlorinated biphenyls (PCBs) and phenols were not detected in any of the samples. Total phthalates were detected in all but one of the Site 1 core samples and one of the Site 2 core samples; all values were below ERL values.

Total polycyclic aromatic hydrocarbons (PAHs) were found in all core samples and composite samples. None of the samples exceeded the total PAHs' ERL values. However, acenaphthene, fluorene, anthracene, and pyrene were detected above their respective ERL values (see Table 6). Reference sediments did not exhibit PAH concentrations above their respective reporting limits.

Table 6
Bulk Sediment Chemistry Results

Analytes	Units (dry wt.)	ERL	ERM	Site 1						Reference Sites	
				1-1	1-2	1-3	1-4	1-5	1-Comp	Ocean	Harbor
Arsenic	mg/kg	8.2	70	5.78	4.18	7.50	4.07	2.56	3.83	ND	7.47
Cadmium	mg/kg	1.2	9.6	0.656	0.187	0.532	0.232	0.227	0.259	ND	0.719
Chromium (total)	mg/kg	81	370	43.7	21.0	46.4	30.2	17.2	28.0	13.5	45.4
Copper	mg/kg	34	270	***52.7***	22.4	***44.2***	31.9	17.4	27.4	6.88	***48.4***
Lead	mg/kg	46	218	23.5	14.3	***50.7***	23.9	23.2	19.7	3.97	26.8
Nickel	mg/kg	20.9	51.6	***29.7***	11.1	19.7	14.8	10.3	15.4	6.74	**27.2**
Selenium	mg/kg	-	-	ND	ND	ND	0.748	ND	ND	ND	ND
Silver	mg/kg	1	3.7	0.301	ND	0.270	0.208	0.201	ND	ND	0.879
Zinc	mg/kg	150	410	99.6	51.4	92.3	65.5	43.8	60.6	34.5	111
Mercury	mg/kg	0.15	0.71	***0.200***	***0.164***	***0.452***	***0.259***	0.119	***0.211***	0.032	***0.191***
TRPH	mg/kg	-	-	54	50	150	91	46	66	43	54
Total PCBs	µg/kg	-	-	ND	ND	ND	ND	ND	ND	ND	ND
Total Phenols	µg/kg	-	-	ND	ND	ND	ND	ND	ND	ND	ND
Total Phthalates	µg/kg	-	-	24	88	39	51	ND	44	51	83
Total DDTs *	µg/kg	1.58	46.1	***7.3***	***7.8***	***30***	***13.9***	1.4	***7.8***	***38***	***10***
Total PAHs	µg/kg	4022	44792	265	364	1130	782	166	488	ND	ND
Dibutyltin	µg/kg	-	-	ND	ND	ND	ND	ND	7.5	ND	ND
Monobutyltin	µg/kg	-	-	ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	µg/kg	-	-	ND	ND	3.1	44.5	ND	40.8	ND	ND

Table 6 (continued)
Bulk Sediment Chemistry Results

Analytes	Units (dry wt.)	ERL	ERM	Site 2							Reference Sites	
				2-1	2-2	2-3	2-4	2-5	2-6	2-Comp	Ocean	Harbor
Arsenic	mg/kg	8.2	70	***8.70***	***12.2***	***11.1***	***10.9***	***9.18***	***8.26***	***10.9***	ND	7.47
Cadmium	mg/kg	1.2	9.6	0.339	0.561	0.503	0.325	0.342	0.585	0.612	ND	0.719
Chromium (total)	mg/kg	81	370	40.6	53.3	54.4	47.9	51.5	64.7	65.2	13.5	45.4
Copper	mg/kg	34	270	***40.7***	***85.3***	***73.0***	***50.0***	***58.4***	***65.1***	***83.2***	6.88	***48.4***
Lead	mg/kg	46	218	43.8	***47.9***	45.6	28.7	33.9	***52.6***	***57.7***	3.97	26.8
Nickel	mg/kg	20.9	51.6	***28.5***	***33.9***	***33.0***	***31.9***	***33.8***	***28.1***	***34.9***	6.74	**27.2**
Selenium	mg/kg	-	-	0.781	1.11	ND	ND	1.04	ND	ND	ND	ND
Silver	mg/kg	1	3.7	0.192	0.310	0.256	0.169	0.169	0.245	0.239	ND	0.879
Zinc	mg/kg	150	410	94.6	130	124	93.9	103	117	146	34.5	111
Mercury	mg/kg	0.15	0.71	***0.395***	***0.895***	***0.503***	***0.246***	***0.329***	***0.582***	***0.746***	0.032	***0.191***
TRPH	mg/kg	-	-	180	220	170	44	140	150	41	43	54
Total PCBs	µg/kg	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Phenols	µg/kg	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Phthalates	µg/kg	-	-	ND	21	140	170	65	120	170	51	83
Total DDTs *	µg/kg	1.58	46.1	ND	***12.3***	***4.7***	ND	***4.5***	***16***	***14.3***	**38**	**10**
Total PAHs	µg/kg	4022	44792	38	622	724	330	935	2570	1100	ND	ND
Dibutyltin	µg/kg	-	-	ND	ND	13.3	ND	ND	ND	ND	ND	ND
Monobutyltin	µg/kg	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tributyltin	µg/kg	-	-	ND	3.5	156	11.8	7.5	ND	ND	ND	ND

* = DDT and its derivatives were the only chlorinated pesticides detected
bold = exceeds the ERL
bold = exceeds the ERM
dry wt. = dry weight
ERL = effects range low
ERM = effects range median

µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
ND = not detected within reporting limits
PAH = polycyclic aromatic hydrocarbon
PCB = polycyclic aromatic hydrocarbon
TRPH = total recoverable petroleum hydrocarbons

Organotins were detected in two of the five core samples and in the composite sample at Site 1 and four of the six Site 2 core samples. The Puget Sound Dredge Disposal Analysis program (PSDDA) screening level for organotins (73 μg/kg) was exceeded in one of the Site 2 core samples.

3.4 Elutriate Chemistry Results

The results of the elutriate chemistry analyses are presented in Table 7. The results are for the two test sites and one seawater sample that was used to prepare the filtered elutriates. Results are compared to the California Toxics Rule (CTR) ambient water quality criteria or the California Ocean Plan in the case of mercury. Laboratory data results are contained in Appendix E.

Table 7
Elutriate Chemistry Data

Parameter	Units	Site 1	Site 2	Seawater	CTR Criteria (mg/L)
Sulfides		ND	ND	ND	--
Arsenic	mg/L	ND	0.003	ND	0.069
Cadmium	mg/L	ND	ND	ND	0.042
Chromium (total)	mg/L	ND	ND	ND	--
Copper	mg/L	ND	ND	ND	0.0048
Lead	mg/L	ND	ND	ND	0.210
Nickel	mg/L	ND	ND	ND	0.074
Selenium	mg/L	ND	ND	ND	0.290
Silver	mg/L	ND	ND	ND	0.0019
Zinc	mg/L	ND	0.009	0.014	0.009
Mercury	mg/L	ND	ND	ND	0.0005*
Total Aroclor PCBs	μg/L	ND	ND	ND	--
Total Phenols	μg/L	ND	ND	ND	--
Total Phthalates	μg/L	ND	ND	ND	--
Total Pesticides	μg/L	ND	ND	ND	--
Total PAHs	μg/L	ND	ND	ND	--

* = minimum level from the California Ocean Plan
CTR = California Toxics Rule
ND = not detected within reporting limits
PAH = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyls

3.5 Bioassay and Bioaccumulation Results

Raw toxicity data is included in Appendix F and bioaccumulation data is included in Appendix G.

3.5.1 Solid Phase Bioassay Results

Solid phase toxicity tests included amphipod (*Ampelisca abdita*) and mysid shrimp (*Americamysis bahia*) protocols. As shown in Table 8, neither the amphipod nor the mysid test demonstrated any statistically significant mortality. The initial amphipod test was repeated because the controls did not meet the 90 percent survival standard set by the *Green Book*.

Table 8
Solid Phase Toxicity Results

Site	Amphipod Mean Survival (%)	Mysid Mean Survival (%)
Control	90	96
Ocean Reference	90	94
Harbor Reference	89	100
Site 1	91	94
Site 2	88	94

3.5.2 Suspended Phase Bioassay Results

The results of the suspended-particulate phase tests performed using silversides (*Menidia beryllina*), mysid shrimp (*Americamysis bahia*), and bivalve larvae (*Mytilus edulis*) are shown in Table 9. No toxicity was observed in either the silverside or mysid tests. The bivalve larvae test for Site 1 indicates that the 100 percent and 10 percent concentrations were statistically significant, but the reduction in normal development was minor. The Site 2 test, however, resulted in a 100 percent reduction in normal larvae in both the 50 and 100 percent elutriate concentrations. The EC_{50} for this test was calculated to be 22.3 percent elutriate.

Suspended particulate phase analyses are not typically conducted on the reference sediment samples (because the control is used for statistical comparisons). For this study, however, a test was conducted on the Harbor Reference sediment. Since this is the first study to be conducted using a reference sediment collected in Los Angeles Harbor, it was determined that conducting suspended particulate tests on this sediment would provide useful information on baseline conditions at this site.

Table 9
Suspended-Phase Toxicity Results

Site	Concentration (%)	Silverside Average Survival (%)	Mysid Average Survival (%)	Bivalve Average Normal Development (%)
Control	0	100	96	99
Harbor Reference	10	100	100	97
	50	100	100	91*
	100	100	98	89*
Site 1	10	100	94	97*
	50	100	98	98
	100	100	96	96*
Site 2	10	100	98	98
	50	100	96	0*
	100	100	92	0*

*indicates statistically significant toxicity

3.5.3 Bioaccumulation Test Results

Bioaccumulation results are summarized in Table 10 through 13. Table 10 is a comparison of the metal levels in organisms exposed to the ocean reference sediment to those in organisms exposed to test sediment. A comparison of the metal levels in tissue exposed to Harbor Reference sediment is summarized in Table 11. Tissue levels of organic chemicals in Ocean Reference (Table 12) and Harbor Reference (Table 13) exposures are also presented. In general, the levels of metals in test tissue were low. No pesticides or PCB were detected in any of the samples tested. PAH bioaccumulation was observed in many of the samples. The results are discussed in more detail in the Section 4.4.

3.6 Quality Assurance and Quality Control

Routine *Green Book* and *ITM* standard operating procedures were employed during all phases of this study. This included proper sediment collection and handling procedures; analyzing samples within holding times; method blank and laboratory control analyses at required frequencies; and using EPA-approved testing methods with state-of-the-art instrumentation. For bulk sediment chemistry test, all matrix spike analyses were within acceptable limits. Surrogate analyses were also within acceptable control limits. Due to matrix interferences, the target detection limits were not met for several samples.

Table 10
Metals Bioaccumulation Results
Ocean Reference Tissue Compared to Test Tissue

Analyte (mg/kg dry wt.)	Clam Ocean Reference		Clam Site 1		Clam Site 2		Worm Ocean Reference		Worm Site 1		Worm Site 2	
	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.
% Solids	11.3	1.44	10.0	0.88	11.2	0.50	13.9	1.08	14.5	1.38	14.2	0.75
Arsenic (As)	12.7	0.95	13.7	2.21	13.0	1.40	11.0	0.97	9.9	0.72	9.8	0.90
Cadmium (Cd)	0.16	0.041	0.16	0.015	0.14	0.022	0.15	0.027	0.14	0.019	0.14	0.019
Chromium (Cr)	6.6	0.97	6.8	1.77	6.8	1.34	4.9	3.71	3.2	0.49	3.5	0.39
Copper (Cu)	15.4	2.19	**21.0***	4.22	17.0	2.98	7.8	1.19	8.2	0.47	8.5	0.85
Lead (Pb)	2.0	0.35	**3.8***	0.89	**3.3***	0.88	0.7	0.18	0.6	0.10	0.8	0.09
Mercury (Hg)	0.15	0.034	0.16	0.032	0.14	0.034	0.15	0.057	0.18	0.025	0.17	0.037
Nickel (Ni)	3.3	0.56	3.4	0.54	3.6	0.77	1.2	0.18	1.0	0.22	1.2	0.11
Selenium (Se)	1.8	0.20	1.8	0.17	1.8	0.15	1.8	0.33	1.7	0.25	1.6	0.25
Silver (Ag)	0.23	0.046	0.19	0.067	0.19	0.036	0.07	0.045	0.04	0.012	0.05	0.009
Zinc (Zn)	67.6	10.28	76.4	12.6	61.3	9.77	95.0	37.87	41.4	23.1	66.1	47.4

***indicates statistically elevated compared to reference tissue ($p \leq 0.05$)**
dry wt. = dry weight
mg/kg = milligram per kilogram
Std. Dev. = standard deviation

Table 11
Metals Bioaccumulation Results
Harbor Reference Tissue Compared to Test Tissue

Analyte (mg/kg dry wt.)	Clam Harbor Reference		Clam Site 1		Clam Site 2		Worm Harbor Reference		Worm Site 1		Worm Site 2	
	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.
% Solids	11.0	0.67	10.0	0.88	11.2	0.50	13.1	2.15	14.5	1.38	14.2	0.75
Arsenic (As)	13.1	1.45	13.7	2.21	13.0	1.40	10.0	1.53	9.9	0.72	9.8	0.90
Cadmium (Cd)	0.16	0.029	0.16	0.015	0.14	0.022	0.14	0.023	0.14	0.019	0.14	0.019
Chromium (Cr)	7.3	1.14	6.8	1.77	6.8	1.34	4.2	2.06	3.2	0.49	3.5	0.39
Copper (Cu)	18.0	3.24	21.0	4.22	17.0	2.98	7.6	0.32	**8.2***	0.47	**8.5***	0.85
Lead (Pb)	2.8	0.52	**3.8***	0.89	3.3	0.88	0.6	0.14	0.6	0.10	0.8	0.09
Mercury (Hg)	0.15	0.03	0.16	0.032	0.14	0.034	0.15	0.04	0.18	0.025	0.17	0.037
Nickel (Ni)	4.2	0.51	3.4	0.54	3.6	0.77	1.0	0.08	1.0	0.22	**1.2***	0.11
Selenium (Se)	1.8	0.16	1.8	0.17	1.8	0.15	1.8	0.31	1.7	0.25	1.6	0.25
Silver (Ag)	0.19	0.034	0.19	0.067	0.19	0.036	0.06	0.011	0.04	0.012	0.05	0.009
Zinc (Zn)	68.2	12.80	76.4	12.6	61.3	9.77	78.3	79.29	41.4	23.1	66.1	47.4

***indicates statistically elevated compared to reference tissue ($p \leq 0.05$)**
dry wt. = dry weight
mg/kg = milligram per kilogram
Std. Dev. = standard deviation

Table 12
Organics Bioaccumulation Results
Ocean Reference Tissue Compared to Test Tissue

Analyte (µg/kg dry wt.)	Clam Ocean Reference		Clam Site 1		Clam Site 2		Worm Ocean Reference		Worm Site 1		Worm Site 2	
	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.
% Solids	11.3	1.44	10.0	0.88	11.2	0.50	13.9	1.08	14.5	1.38	14.2	0.75
Pesticides	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
PCBs	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Acenaphthene	ND	-	ND	-	23	11.4	ND	-	ND	-	68	42.5
Acenaphthylene	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Anthracene	ND	-	ND	-	110	16.5	ND	-	45	17.0	147	40.4
Benz[a]anthracene	ND	-	89	59.1	260	18.0	ND	-	ND	-	79	29.0
Benzo[a]pyrene	ND	-	591	179.9	464	86.0	ND	-	61	16.3	56	53.3
Benzo[b]fluoranthene	ND	-	639	177.0	579	61.7	ND	-	83	33.5	88	45.3
Benzo[g,h,i]perylene	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Benzo[k]fluoranthene	ND	-	403	113.1	330	38.8	ND	-	86	32.2	80	31.4
Chrysene	ND	-	147	38.0	400	14.4	ND	-	ND	-	183	121.5
Dibenzo[a,h]anthracene	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Fluoranthene	ND	-	ND	-	721	99.3	ND	-	23	4.7	341	148.9
Fluorene	ND	-	ND	-	19	5.5	ND	-	ND	-	29	-
Indeno[1,2,3-c,d]pyrene	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Naphthalene	ND	-	45	-	ND	-	66	8.3	73	21.1	109	113.6
Phenanthrene	ND	-	ND	-	147	50.3	ND	-	37	-	359	92.4
Pyrene	ND	-	615	107.1	1259	463.0	ND	-	107	60.0	363	226.0
Average Total PAHs	ND	-	1854	1062.5	3690	1796.4	22	34.4	301	223.2	1717	822.5

dry wt. = dry weight
µg/kg = microgram per kilogram
PAHs = polycyclic aromatic hydrocarbons
PCBs = polychlorinated biphenyls
Std. Dev. = standard deviation

Table 13
Organics Bioaccumulation Results
Harbor Reference Tissue Compared to Test Tissue

Analyte (µg/kg dry wt.)	Clam Harbor Reference		Clam Site 1		Clam Site 2		Worm Harbor Reference		Worm Site 1		Worm Site 2	
	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.	Average	Std. Dev.
% Solids	11.0	0.67	10.0	0.88	11.2	0.50	13.1	2.15	14.5	13.8	14.2	0.75
Pesticides	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
PCBs	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Acenaphthene	ND	-	ND	-	23	11.4	ND	-	ND	-	68	42.5
Acenaphthylene	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Anthracene	ND	-	ND	-	110	16.5	20	6.4	45	17.0	147	40.4
Benz[a]anthracene	ND	-	89	59.1	260	18.0	ND	-	ND	-	79	29.0
Benzo[a]pyrene	ND	-	591	179.9	464	86.0	ND	-	61	16.3	56	53.3
Benzo[b]fluoranthene	ND	-	639	177.0	579	61.7	ND	-	83	33.5	88	45.3
Benzo[g,h,i]perylene	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Benzo[k]fluoranthene	ND	-	403	113.1	330	38.8	ND	-	86	32.2	80	31.4
Chrysene	ND	-	147	38.0	400	14.4	ND	-	ND	-	183	121.5
Dibenzo[a,h]anthracene	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Fluoranthene	ND	-	ND	-	721	99.3	ND	-	23	4.7	341	148.9
Fluorene	ND	-	ND	-	19	5.5	ND	-	ND	-	29	-
Indeno[1,2,3-c,d]pyrene	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-
Naphthalene	ND	-	45	-	ND	-	61.7	-	73	21.1	109	113.6
Phenanthrene	ND	-	ND	-	147	50.3	ND	-	37	-	359	92.4
Pyrene	ND	-	615	107.1	1259	463.0	ND	-	107	60.0	363	226.0
Average Total PAHs	ND	-	1854	1062.5	3690	1796.4	20	25.4	301	223.2	1717	822.5

dry wt. = dry weight
µg/kg = microgram per kilogram
PAHs = polycyclic aromatic hydrocarbons
PCBs = polychlorinated biphenyls
Std. Dev. = standard deviation

4.0 DISCUSSION

4.1 Sediment Chemistry

The chemistry results indicate elevated metal levels in most samples. Mercury was the most prevalent metal contaminant: it exceeded the ERL value in almost all samples and only exceeded the ERM value in two samples (Core 2 in Site 2 and the Site 2 composite). Overall, metals concentrations in the test samples were generally lower than the Harbor Reference site but higher than the Ocean Reference site. DDT and its derivatives (the only pesticide detected) were also detected and exceeded the ERL value in 12 of the 13 samples, but not the ERM value. Generally, the test site total DDTs values were lower than the ocean reference site. PAHs did not exceed the ERL values for either site and were not detected in the reference site samples. Organotins were detected in the test samples; only 1 core in Site 2 had levels of tributyltin above the PSDDA screening level of 73 μg/kg TBT.

4.2 Elutriate Chemistry

All chemicals were found to be "nondetect" in Site 1 elutriate. Only arsenic (0.003 mg/L) and zinc (0.009 mg/L) were detected in the Site 2 elutriate. The arsenic level is well below the CTR criteria level of 0.069 mg/L. The zinc level is equal to the CTR criteria level of 0.009 mg/L, but it should be noted that the seawater used to prepare the elutriate sample had a zinc level of 0.014 mg/L. The results indicate that dissolved contaminants are not a problem in the test sediment.

4.3 Bioassay Tests

4.3.1 Solid Phase Tests

Survival of amphipods and mysid shrimp was high for all treatments ranging from 88 percent to 100 percent. These results indicate that the Berths 145-147 test sediments are not toxic to benthic test organisms. Therefore, the proposed dredged material is not predicted to cause adverse benthic effects at either the ocean or harbor disposal sites and is in compliance with Clean Water Act and Ocean Dumping Law criteria.

4.3.2 Suspended Particulate Phase Tests

No mortality was observed in any of the *Menidia* exposures. Survival was high in all the mysid shrimp exposures ranging from 92 percent to 100 percent. Normality of bivalve larvae for Site 1 and the Harbor Reference sediment were high; values ranged from 89 percent to 99 percent. There was significant abnormality observed in the Site 2 exposure. The filtered elutriate chemistry analyses did not indicate that a particular chemical was present in elevated levels. No normal larvae were observed in the 50 percent and 100 percent elutriate concentrations; the EC_{50} for the Site 2 test was 22.3 percent elutriate.

The bivalve water quality data (Appendix Table F-22) strongly indicates that the toxicity observed in the Site 2 bivalve larvae test was due to the elevated ammonia levels in the elutriate water. At test initiation (time = 0 hr), the total ammonia level in the 100 percent

elutriate concentration was 15.7 mg/L. This can be converted to unionized ammonia (the toxic form of ammonia) using the initial test temperature of 14.8°C and the pH level of 8.13.

The resulting unionized ammonia concentration is 0.55 mg/L. Studies by Tang (1997) and Nicely (2000) found unionized ammonia EC_{50} levels for mussel larvae development of 0.19 and 0.12 mg/L, respectively. They also both reported a no observed effects concentration (NOEC) of 0.08 mg/L and lowest observable effects concentrations (LOEC) of 0.15 mg/L unionized ammonia. Based on the unionized ammonia level in the Site 2 suspended particulate elutriate (0.55 mg/l), it is clear that unionized ammonia is the likely cause of the observed toxicity. Since ammonia is a naturally occurring toxicant that would be rapidly dispersed at either disposal site, no effects on water column organisms would be expected.

These results indicate that the proposed dredged material meets the criterion for no water column impacts at the ocean or harbor disposal sites.

4.4 Bioaccumulation Tests

Metals

The metal levels in clams and worms exposed to test sediment were compared statistically to the level in reference sediment using a one-tailed *t*-test ($p \leq 0.05$). These analyses were done using the Ocean Reference site tissues and the Harbor Reference site tissues.

For the Ocean Reference site comparisons, only copper in Site 1 and lead in Sites 1 and 2 clam tissue was found to be statistically elevated (Table 10). No metals were found to be at statistically significant levels in worm tissue for the ocean reference site test. The significant copper level in clam tissue (21.0 mg/kg) was only 1.4 times the average concentration in the Ocean Reference tissue level (15.4 mg/kg). The significant lead level in Site 1 clam tissue (3.8 mg/kg) and Site 2 test tissue were only 1.7 and 1.9 times the Ocean Reference tissue level (2.0 mg/kg), respectively.

For the Harbor Reference comparisons, lead was statistically significant in Site 1 clam tissue, while copper was statistically significant in Sites 1 and 2 worm tissue and nickel in Site 2 worm tissue (Table 11). Again, the level of elevated bioaccumulation in the test tissues compared to the harbor reference was relatively low. The lead level in the Site 1 test tissue (3.8 mg/kg) was 1.4 times that of the Harbor Reference level (2.8 mg/kg). The worm levels of copper were Site 1 and 2 test tissue was 1.1 times the Harbor Reference level (7.6 mg/kg) for both sites. The Site 2 nickel level (1.2 mg/kg) was only 1.2 times the Harbor Reference tissue level (1.0 mg/kg).

The fact that several tissue samples exposed to test sediments had statistically elevated levels for certain metals does not indicate that ecological impacts would occur at the disposal site. This decision is based upon factors such as toxicological importance of the contaminants, the degree and severity of bioaccumulation, and the potential for biomagnification of contaminants. The metal results indicate that the degree of bioaccumulation in organisms exposed to test

sediment was minor (no test tissue was more than 2 times its corresponding reference tissue level). These results would not preclude disposal at either the ocean or harbor site.

Organics

The three types of organic contaminants measured in reference and test tissue were organochlorine pesticides, PCBs, and PAHs. No pesticides or PCBs were detected in any of the reference or test tissues (Tables 12 and 13). PAHs were detected in both clams and worms for both sites. The reference site clam tissues were not at detectable concentrations for PAHs, while both reference site worm tissues had low levels of the PAH naphthalene.

To determine if there are potential ecological impacts at the ocean or harbor disposal sites that could be associated the presence of PAHs at the concentrations presented in Tables 12 and 13, a comparison to regulatory standards can be made.

The Food and Drugs Administration (FDA) has Action Levels for Poisonous and Deleterious Substances in Fish and Shellfish for Human Food. There are Action Levels for six chemicals measured in this study (mercury, chlordane, DDT + DDE, dieldrin + aldrin, heptachlor + heptachlor epoxide, and PCBs); none of these chemical exceeded the Action Levels. There are no Action Levels for PAHs. The EPA does, however, have fish tissue screening level guidelines for cancer and non-cancer risk for several of the PAHs analyzed in this study (USEPA 1997). These guidelines are presented in Table 14.

Table 14 first compares the dry weight ERL and ERM benchmark values to the test sediment results. This comparison indicates that Site 2 sediment was slightly above the ERLs for acenaphthene and fluorine and that there is a low likelihood of toxicity due to exposure to the sediment. This was confirmed by the lack of toxicity observed in the solid phase tests.

Table 14 also compares the EPA's wet weight guideline values for screening level hazard comparisons for humans were compared to the wet weight PAH levels in clam and worm tissue. This comparison indicates that benzo(a)pyrene in clam tissue for both test sites (59.1 and 52.0 μg/kg), respectively exceeded the cancer risk concentration of 15 μg/kg for humans. No other PAHs exceeded cancer or non-cancer guideline levels.

Benzo(a)pyrene bioaccumulation in clams is a potential concern because (1) benzo(a)pyrene is a known carcinogen, and (2) clams are not able to metabolize PAHs and are, therefore, able to pass them to higher trophic levels. The EPA guidelines presented in Table 14 are for fish and not clam tissue. Applying a trophic transfer rate from clams to fish of 0.1 to the benzo(a)pyrene concentration in the clam tissue would result in fish tissue levels of 5.9 and 5.2 for Sites 1 and 2, respectively (USEPA 2000). These levels are below the EPA cancer guidelines for humans benzo(a)pyrene. Therefore, disposal of the proposed dredged material at either the ocean or harbor sites would not likely cause significant bioaccumulation impacts for humans.

Table 14
PAH Concentrations Compared to NOAA ERLs and ERMs and EPA Screening Level Hazard Guidelines

Analyte	Sediment ERL (µg/kg dry wt.)	Sediment ERM (µg/kg dry wt.)	Site 1 Sediment Composite (µg/kg dry wt.)	Site 2 Sediment Composite (µg/kg dry wt.)	Fish Tissue Conc. = EPA 10^{-5} Risk (µg/kg wet wt.)	Fish Tissue EPA Noncancer Hazard Quotient = 1 (µg/kg wet wt.)	Site 1 Clam (µg/kg wet wt.)	Site 1 Worm (µg/kg wet wt.)	Site 2 Clam (µg/kg wet wt.)	Site 2 Worm (µg/kg wet wt.)
Acenaphthene	16	500	ND	***21***		650000	ND	ND	2.6	9.7
Acenaphthylene	44	640	ND	ND			ND	ND	ND	ND
Anthracene	85.3	1100	16	44		3200000	ND	6.5	12.3	20.9
Benzo[a]anthracene	261	1600	20	54	150		8.9	ND	29.1	11.2
Benzo[a]pyrene	430	1600	69	100	15		***59.1***	8.8	***52.0***	8.0
Benzo[b]fluoranthene			89	140	150		63.9	12.0	64.8	12.5
Benzo[g,h,i]perylene			28	30			ND	ND	ND	ND
Benzo[k]fluoranthene			69	100	1500		40.3	12.5	37.0	11.4
Chrysene	384	2800	50	100	15000		14.7	ND	44.8	26.0
Dibenzo[a,h]anthracene	63.4	260	ND	ND	15		ND	ND	ND	ND
Fluoranthene	600	5100	16	92		430000	ND	3.3	80.8	48.4
Fluorene	19	540	ND	***21***		430000	ND	ND	2.1	4.1
Indeno[1,2,3-c,d]pyrene			21	24	150		ND	ND	ND	ND
Naphthalene	160	2100	ND	32		430000	4.5	10.6	ND	15.5
Phenanthrene	240	1500	ND	57		3200000	ND	5.4	16.5	51.0
Pyrene	665	2600	110	290		320000	61.5	15.5	141	51.5
AverageTotal PAHs	4022	44792	448	1100			185	43.6	413	244

bold = concentrations that exceed guideline levels
dry wt. = dry weight
µg/kg = microgram per kilogram
PAHs = polycyclic aromatic hydrocarbons
wet wt. = wet weight

For assessing potential bioaccumulation risk to ecological receptors, measures of exposure for a chemical of potential concern (COPC) can be compared to ecotoxicity reference values (ERVs) for that COPC and receptor group type (Table 15). For developing appropriate ERVs, receptor group types include aquatic mollusks (relevant for clam tissues) and aquatic annelids (relevant for worm tissues). Briefly, ERVs are applied as critical tissue values (CTVs) for effects-based whole-body concentrations of COPCs in the appropriate aquatic receptor groups.

Measures of bioaccumulation exposure for COPCs in the aquatic receptor groups can be assessed as whole-body concentrations for a COPC in a particular receptor. This "critical body residue" approach is a method for assessing exposure estimates for COPCs in aquatic receptors in complex and/or multistep food web systems (e.g., McCarty and Mackay 1993; Jarvinen and Ankley 1999; Jarvinen et al. 1998; Field 1998). It is noted that: "Biomarkers and tissue residues are particularly useful when exposures across many pathways must be integrated and when site-specific factors influence bioavailability." (USEPA 1998; p. 69).

Effects-based critical body residues are referred to as CTVs. COPC concentrations in whole-body samples of clams and worms can be compared to effects-based whole-body residue levels for a COPC in mollusks and annelids, respectively (Table 15). The analysis presented on Table 15 indicates that the PAHs levels in calm and worm tissue observed in this study are well below the level where adverse effects would be expected.

5.0 RESULTS SUMMARY

The following is a summary of the study results.

- No solid phase toxicity was observed, therefore the proposed dredged material meets the limiting permissible concentration (LPC) for benthic impacts.
- No suspended particulate phase toxicity in Site 1 sediment test, therefore the Site 1 LPC for water column impacts is met.
- No silverside or mysid shrimp suspended particulate toxicity in Site 2. Toxicity was observed in the Site 2 bivalve larvae test, but evidence indicates it was caused by elevated unionized ammonia levels. The LPC for water column impacts is, therefore, met by Site 2 sediment.
- Low levels of metal bioaccumulation, no pesticide or PCB bioaccumulation, and acceptable levels of PAH bioaccumulation were observed, therefore the dredged material meets the LPC for bioaccumulation impacts.

Table 15
PAH Concentrations in Test Tissue Samples Compared to Available Effects-Based Critical Tissue Values

Analyte (all values wet wt.)	Site 1 Clam (µg/kg)	Site 2 Clam (µg/kg)	Clams/molluscs (whole body) (USACE)[a]		Site 1 Worm (µg/kg)	Site 2 Worm (µg/kg)	Worms/annelids (whole body) (USEPA/Duluth)[b]		Worms/annelids (whole body) (USACE)[a]	
			No Effect[c] (µg/kg)	Adverse Effect[c] (µg/kg)			No Effect[c] (µg/kg)	Adverse Effect[c] (µg/kg)	No Effect (µg/kg)	Adverse Effect[c] (µg/kg)
Acenaphthene	ND	2.6		29400	ND	9.7				
Acenaphthylene	ND	ND			ND	ND				
Anthracene	ND	12.3			6.5	20.9	3400-52400	6300-52400		
Benzo[a]anthracene	8.9	29.1	600		ND	11.2				
Benzo[a]pyrene	59.1	52.0	2.21-1250	300	8.8	8.0				
Benzo[b]fluoranthene	63.9	64.8			12.0	12.5				
Benzo[g,h,i]perylene	ND	ND			ND	ND				
Benzo[k]fluoranthene	40.3	37.0			12.5	11.4				
Chrysene	14.7	44.8	930		ND	26.0				
Dibenzo[a,h]anthracene	ND	ND			ND	ND				
Fluoranthene	ND	80.8	1290	220	3.3	48.4	12500-250000	25000-250000		
Fluorene	ND	2.1			ND	4.1	189000			
Indeno[1,2,3-c,d]pyrene	ND	ND			ND	ND				
Naphthalene	4.5	ND			10.6	15.5				
Phenanthrene	ND	16.5		30700	5.4	51.0	780	780	780	780
Pyrene	61.5	141	1080		15.5	51.5	0.8-380000	10000-465000	0.8-380000	380000-465000
Average Total PAHs	185	413			43.6	244				

µg/kg = micrograms per kilogram
USACE = US Army Corps of Engineers
USEPA = US Environmental Protection Agency
wet wt. = wet weight
[a]USACE. 2002. Environmental Residue-Effects Database (ERED).
[b]Jarvinen, A.W. and G.T. Ankley. 1999.
[c]effect levels focused on ecologically relevant endpoints of reductions in growth/development, reproduction, or survival.

6.0 REFERENCES

AMEC Earth & Environmental. 2002. Sampling and Analysis Plan Berths 147 through 147 Dredged Testing Material. October.

American Society for Testing and Materials (ASTM). 1990. Conducting Ten-day Static Sediment Toxicity Tests with Marine and Estuarine Amphipods. ASTM Designation E 1367- 90.

Buchanan, M.F., 1999. NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 99-1, Seattle, WA, Coastal Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.

Field, L.J. 1998. Use of tissue residue data in exposure and effects assessments for aquatic organisms. In: National Sediment Bioaccumulation Conference Proceedings. EPA 823-R-98-002. USEPA Office of Water. February 1998. pp. 2-21 through 2-240.

Jarvinen, A.W. and G.T. Ankley. 1999. Linkage of Effects to Tissue Residues: Development of a Comprehensive Database for Aquatic Organisms Exposed to Inorganic and Organic Chemicals. SETAC Press, Pensacola, FL. 358 pp.

Jarvinen, A.W., D.R. Mount, and G.T. Ankley. 1998. Development of tissue residue threshold values. In: National Sediment Bioaccumulation Conference Proceedings. EPA 823-R-98-002. USEPA Office of Water. February 1998. pp. 2-9 through 2-20.

Long, E.R., L.J. Field, and D.D. MacDonald, 1998. Predicting Toxicity in Marine Sediments with Numerical Sediment Quality Guidelines, Environmental Toxicology and Chemistry, Vol. 17, No. 4, pp. 714-727.

McCarty, L.S. and D. Mackay. 1993. Enhancing ecotoxicological modeling and assessment. Environmental Science and Technology 27: 1719-1728.

Nicely, P.A., B.M. Phillips, B.S. Anderson, J.W. Hunt, S.A. Huntley, R.S. Tjeerdema, F.H. Palmer, and S.E. Palmer. 2000. Tolerance of several marine toxicity test organisms to ammonia and artificial salts. Poster, Society of Environmental Toxicology and Chemistry, 18th Annual Meeting.

Ogden 1996a. Final Report Dredged Material Testing for Ocean Disposal Berth 144, Project Directive Number 9; Agreement No. 1831. October.

Ogden 1996b. Final Report Dredged Material Testing for Ocean Disposal Berth 147, Project Directive Number 10; Agreement No. 1831. December.

Tang, A., J.G. Kalocai, S. Santos, B. Jamil, and J. Stewart. 1997. Sensitivity of blue mussel and purple sea urchin larvae to ammonia. Poster, Society of Environmental Toxicology and Chemistry. 21st Annual Meeting.

Tidepool Scientific Software. 1992-1994. TOXCALC Comprehensive Toxicity Data Analysis and Database Software, Version 5.0.

U.S. Army Corps of Engineers (USACE). 2002. Environmental Residue-Effects Database (ERED). <http://www.wes.army.mil/el/ered>.

U.S. Environmental Protection Agency (USEPA). 1991. EPA Region 9 General Requirements for Sediment Testing of Dredged Material Proposed for Ocean Dumping. December.

U.S. Environmental Protection Agency (USEPA). 1997. The Incidence and Severity of Sediment Contamination in Surface Water of the United States. Volume 1: National Sediment Quality Survey. September.

U.S. Environmental Protection Agency (USEPA). 1998. Guidelines for Ecological Risk Assessment. Final. Risk Assessment Forum, U.S. Environmental Protection Agency, Washington, D.C. April 1998. EPA/630/R-95/002F. 114 pp. plus appendices.

U.S. Environmental Protection Agency (USEPA)/U.S. Army Corps of Engineers (USACE). 1991. Evaluation of Dredged Material Proposed for Ocean Disposal (Green Book Testing Manual). February.

U.S. Environmental Protection Agency (USEPA)/U.S. Army Corps of Engineers (USACE). 1998. Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S. (Inland Testing Manual). February.

U.S. Environmental Protection Agency (USEPA)/U.S. Army Corps of Engineers (USACE). 2000. Memo for Record. Review of Compliance with the Testing Requirements of 40 CFR 227.6 and 227.27, and Site Designation Provisions of 40 CFR 228.15 for the Kill van Kull Federal Navigation Construction Project: 45-foot Channel Deepening, Contract Area 3, Reach 1, New York. March.

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1.0 EXECUTIVE SUMMARY

This report presents the results of an environmental characterization of sediments from twelve different berth areas located throughout the Port of Los Angeles (Figure 1, Table 1) where the Los Angeles Harbor Department (Port) plans to conduct maintenance dredging. The planned dredging will involve removing approximately 87,650 cubic yards of sediment to various dredge depths. In addition to maintenance dredging, this report also presents the results of an environmental characterization of sediments to be dredged as part of a future deepening project at Berths 122 through 131. The total volume of material tested for this future deepening is approximately 84,000 cubic yards, and it encompasses the sediments from the maintenance dredging elevations down to an elevation of –55 ft mean lower low water (MLLW). Samples for future deepening were taken separately from those for the maintenance-dredging program.

Disposal options for sediments to be removed from the berths associated with this program are being studied. Options for clean dredge materials include offshore disposal at LA2; however, reuse of this material would be preferred. For dredge materials meeting criteria for open-water disposal, options include landfill reuse, upland storage, or storage at the Pier 400 submerged storage site being constructed as part of the Channel Deepening Project. For dredge materials not meeting criteria for open-water disposal, reuse in a confined disposal facility or upland disposal site are options.

Of the 12 berth areas proposed for maintenance dredging, recent data (within the last three years) exists for four of the areas. Further testing was not conducted on these sediments. However, for the sake of convenience, the results of the previous testing conducted on the sediments from these four areas are summarized in this report, and the original test reports are referenced. Sampling and testing was carried out as defined in the project Sampling and Analysis Plan (Kinnetic Laboratories/ToxScan, 2003) previously reviewed by the Port and regulatory agencies.

Vibracore samples were taken in each berth area not previously characterized and combined into appropriate composite samples to be representative of the sediment to be dredged. A composite sample consisting of five or six sampling locations was formed for every 10,000 cy or so of material to be removed for maintenance dredging purposes. For future deepening purposes, a composite sample was formed for every 30,000 cy or so of material because of the likelihood that deepening sediments consist of virgin material with less anthropogenic influence.

A phased approach was used for testing each of the sediment composites. For all composite samples, composite testing consisted of bulk sediment physical and chemical analyses and biological and chemical testing of the sediment elutriates. Sediment data were then evaluated using State of California Title 22 criteria and effects range-low (ERL) and effects range-median (ERM) values derived by Long et al. (1995) to see if testing for open water disposal was warranted. Elutriate data were compared to background water and evaluated using chronic and acute criteria promulgated in the California Toxics Rule (40 CFR Part 131, EPA 2000). For those composite samples representing sediments that looked like possible candidates for open water reuse/disposal, additional toxicity testing and bioaccumulation assessments were also conducted. Additional chemical analyses were also performed on individual cores in order to allow for more than one or two disposal options for problematic composite areas.

As specified in the Inland testing Manual (USEPA/USACE 1998), toxicity and bioaccumulation results were statistically evaluated against reference sites that are nearby planned unconfined aquatic disposal

areas and have similar characteristics to those areas. For this study, reference sediments were collected, using a bucket dredge, at the LA2 Reference Site to represent the LA2 Deep Ocean Disposal Area and in the Outer Harbor near Pier 400 to represent in-harbor disposal areas.

The results of this study were used to evaluate the potential suitabilities of reuse/disposal options. Contaminants of concern were found in all composites at concentrations in excess of ERL and/or ERM sediment guidance values. Decisions were made not to further test sediments for open water disposal from Berths 36, 153-155, 165-167, 177-179, and 180-181 because of generally high concentrations of multiple contaminants of concern.

Sediments from most of the other berth areas that were further tested showed fairly substantial bioaccumulation of PCBs and PAHs that would seem to preclude open water disposal as an option, though toxicity of tested sediments generally did not exceed Limiting Permissible Concentrations (LPCs). The bioaccumulation results were evaluated using the USACE Biota/Sediment Accumulation Factors (BSAFs) database to see if the tissue concentrations measured were within expected ranges and with the USACE/USEPA Environmental Residue Effects Database to assess if toxicity results were consistent with the tissue burdens measured. With few exceptions, mostly minor, and within the expected limitations of these generalized databases, the results of these bioaccumulation tests fall within the range of predicted BSAFs values and the toxicity results are generally as expected from the Residue Effects Database.

The lack of toxicity exceeding LPCs and minimal contamination found in elutriate samples should allow the sediments from all berth areas to be suitable for placement at an in-harbor confined aquatic disposal facility. Because all analytes from all samples were below California Code of Regulations Title 22 criteria and very little contaminant leaching occurred, the sediment from all berth areas should also be acceptable for upland disposal.

An initial evaluation of the suitability of each composite sample tested is summarized in the table that follows. Final determinations of suitabilities of these sediments for given categories of reuse/disposal will be made by regulatory agencies and matched to options available to the Port.

Initial Suitability Categories of Tested Sediments for POLA 2003 Maintenance Dredging

Composite Area	Dredge Volume (cy)	Open Water	Confined Aquatic	Upland
36	750	Not Tested	Suitable	Suitable
90-92 & 93A-93B	10,100	Not Suitable	Suitable	Suitable
122-124 Maintenance Dredging	6,500	Suitable	Suitable	Suitable
122-124 Future Deepening	24,000	Not Suitable	Suitable	Suitable
125-126 Future Deepening	29,000	Not Suitable	Suitable	Suitable
127-131 Maintenance Dredging	6,700	Not Suitable	Suitable	Suitable
127-131 Future Deepening	31,000	Not Suitable	Suitable	Suitable
153-155	13,300	Not Tested	Suitable	Suitable
165-166	4,300	Not Tested	Suitable	Suitable
177-179	10,400	Not Tested	Suitable	Suitable
180-181	8,200	Not Tested	Suitable	Suitable
226-231A	25,200	Not Suitable	Suitable	Suitable
226-231B		Not Suitable	Suitable	Suitable
226-231C		Not Suitable	Suitable	Suitable
240B	6,500	Not Suitable	Suitable	Suitable

2.0 INTRODUCTION AND PURPOSE

The Los Angeles Harbor Department (Port) is planning to carry out maintenance dredging at various berths throughout the Port of Los Angeles. The plan involves dredging approximately 87,650 cubic yards of sediment from several berths within the Port to various dredge depths.

Dredging is planned at the twelve berth areas illustrated in Figure 1 and listed in Table 1. Table 1 also presents the proposed dredge depths, estimated dredge material volumes, and sampling requirements for each berth included in this program. The proposed dredge depths and estimated dredge material volumes include a two-foot overdredge allowance.

In addition to maintenance dredging, this report evaluates sediments from Berths 122 through 131 that are proposed for future deepening. Deepening involves dredging sediments from the currently proposed maintenance dredge depth to an elevation of –55 ft MLLW. Samples for testing were taken in this lower layer separately from those for the maintenance-dredging program. The total volume of material tested for this future deepening is approximately 84,000 cubic yards.

Previous dredge material testing data exists for some of the berth areas to be dredged, and current data (within the past three years) exists for Berth 36, Berths 165-166, Berths 240B, and for the upper layer (maintenance dredging) of Berths 122-124. For convenience, the available data for these berths are summarized in this report and the original test reports are referenced. New sampling and testing was only conducted for the berths and layers of sediment for which current data was not available.

Disposal options for sediments removed from the berths associated with this program are being studied. Options for clean dredge materials include offshore disposal at LA2; however, reuse of this material would be preferred. For dredge materials meeting criteria for open-water disposal, options include landfill reuse, upland storage, or storage at the Pier 400 submerged storage site being constructed as part of the Channel Deepening Project. For dredge materials not meeting criteria for open-water disposal, reuse in a confined disposal facility or upland disposal site are options.

The purpose of this present program was to sample and test sediments from within the proposed maintenance dredging areas to provide sediment quality data for evaluation of dredging and disposal options. This report details sampling methods, analytical and biological testing procedures, and presents and discusses the data gathered.

At the request of the Port, an interim report (Kinnetic Laboratories/ToxScan, 2003) presenting sediment and elutriate chemistry results and elutriate bioassay results was prepared for the Berths 226-231 sediments so that the Port could obtain permits for possible placement of the Berths 226-231 sediments into the Southwest Slip Confined Disposal Facility. Subsequent to the report, additional bioassay and bioaccumulation testing was conducted on the sediments to keep open the option for possible unconfined aquatic disposal. The results presented in the interim report are reported and discussed again in this report along with the results from the bioassay and bioaccumulation testing.

2.1 Previous Studies

Previous environmental sampling programs associated with dredging projects within the Port of Los Angeles provide analytical and toxicity data pertinent to several of the berthing areas listed in Table 1. These data are discussed for each berthing area separately below. Bulk sediment chemistry data are discussed in terms of effects range-low (ERL) and effects range-median (ERM) values. These values were derived by Long et al. (1995) as estimates of low (ERL) and median (ERM) concentrations of

certain chemical constituents that are expected to cause toxicity to aquatic organisms. Table 2 lists available ERL and ERM values for selected analytes.

2.1.1 Berth 36

AMEC Earth and Environmental, Inc. (2001a) sampled the Berth 36 sediments in October of 2001. Two locations were sampled with a vibracore to a project depth of –15 ft MLLW. Bulk sediment and elutriate samples were prepared from the sediments at each location. The results of this study are summarized in Appendix A. Sediment analyses revealed nickel at a concentration that exceeded the ERM value in one of the samples. Chlordane was found in concentrations greater than the ERM in both of the samples, and some individual PAHs exceeded the ERM in one of the samples. ERLs for several metals and PAHs were exceeded in one sample. Analyte concentrations in elutriates prepared from the sediments were the same as the analyte concentrations found in the background water. AMEC concluded the Berth 36 sediments were suitable for upland disposal. No further sampling and testing were conducted at this berth.

2.1.2 Berths 90-92 and 93A and 93B

There are no known previous studies conducted in the vicinity of Berths 90-92 and 93A and 93B.

2.1.3 Berths 122-124

There are two recent pertinent studies conducted on the sediments from Berths 122-124. Most recently, AMEC (2001b) sampled Berths 121-124 in February of 2001. Twelve locations were sampled with either a vibracore or pipe dredge. Five of these locations were in front of Berths 122-124. These five locations were combined into a single composite sample and subjected to bulk sediment analyses and bioassay and bioaccumulation assessments. The project depth for this study was –48 ft MLLW. The results of this study are provided in Appendix A. Copper, lead and nickel were found in concentrations between the ERL and ERM. There was no toxicity observed in the test organisms, and only slight bioaccumulation of metals and PAHs were observed in the tissues of clams. There was also no bioaccumulation or toxicity observed from the sediments sampled in front of Berth 121. AMEC concluded that the sediments were suitable for ocean disposal at LA2.

A few years prior to the AMEC (2001b) study, Ogden (1997) sampled the sediments in front of Berths 121-126. Using a vibracore they sampled ten locations; five were in front of Berths 121-124 and five were in front of Berths 125-126. A single composite was made of the five cores in front of Berths 121-124. The project depth was to –47 ft MLLW. Copper and nickel were found in concentrations between the ERL and ERM. Significant bivalve larvae toxicity was observed in the 100% elutriate of the sample. Significant copper bioaccumulation was found in the tissues of clams and significant zinc and arsenic bioaccumulation were found in the tissues of worms. Despite the observed toxicity to bivalve larvae, disposal of the sediments would not exceed the Limiting Permissible Concentration (LPC) at the LA2 ocean disposal site after the 4-hour initial mixing period. The metals bioaccumulation never exceeded 1.4 times the average reference levels. Ogden concluded that the Berths 121-124 sediments were suitable for disposal at the LA2 disposal site.

In 1999, the sediments from Berths 121-124 were dredged and disposed of at LA2. This should have removed the sediments that had the potential to cause adverse biological effects. Based on the AMEC (2001b) study, no further sampling was conducted in 2003 on the sediments slated for maintenance dredging. Additional testing was only conducted on sediments slated for future deepening to –55 ft MLLW.

2.1.4 Berths 125-126

The sediments from Berths 125-126 were sampled and tested in April of 1997 by Ogden (1997) and subsequently dredged in 1999. The dredged sediments were disposed of at LA2.

Ogden (1997) analyzed a single composite from Berths 125-126 comprising five cores. This composite sample was subjected to bulk sediment chemical analysis along with bioassay and bioaccumulation assessments. The results from the composite sample are summarized in Appendix A. The only analytes to exceed the ERL in the composite sample were copper, mercury, and nickel. No analytes exceeded the ERM. Significant chronic and acute toxicity were observed by bivalve larvae exposed to the 100% elutriate made from the composite sediments. Despite the observed water column toxicity, it was determined that Berths 125-126 sediments would not exceed the LPC upon disposal at the LA2 site after initial mixing. Statistically significant bioaccumulation of copper and zinc was found in the tissues of worms exposed to the test sediments. However these concentrations were at levels below 1.4 times the reference tissue concentrations.

Except in one area, significant shoaling has not taken place since the Berths 125-126 sediments were dredged in 1999. Therefore, for most of the area, additional testing was only conducted on sediments slated for future deepening to –55 ft MLLW. In the one shoaled area, a separate sample was collected from one core of the sediments from the mudline elevation to the maintenance dredging depth of –47 ft MLLW.

2.1.5 Berths 127-131

The sediments from Berths 127-131 were most recently sampled in June of 1995 (Ogden, 1995). Using a vibracore, the sediments were sampled to a project depth of –46 ft MLLW. Ten locations were sampled and formed into a single composite sample that was subjected to bulk sediment analyses and bioassay and bioaccumulation assessments. Sediment copper and nickel were the only constituents that exceeded the ERL, and no constituents exceeded the ERM. Significant low-level solid phase toxicity was observed in worms but worm survival was high (84%) in the test sediment, and statistical significance was due to high reference survival (97%) and very low intra-replicate variability in both reference and test sediment exposures. Significant toxicity was also observed for mysid shrimp and bivalve larvae in the 100% sediment elutriate. Despite the observed water column toxicity, it was determined that sediments from Berths 127-131 would not exceed the LPC upon disposal at the LA2 site after initial mixing. Statistically significant bioaccumulation of cadmium and lead was found in the tissues of clams exposed to test sediments, and significant bioaccumulation of selenium was found in the tissues of worms exposed to test sediments. DDE was found in the tissues of both clams and worms after exposure to test sediments, but a higher concentration of DDE was found in tissues from worms exposed to the LA2 reference site. DDE bioaccumulation was statistically significant in clams, primarily because no DDE was detected in Reference clams. The statistical significance of the cadmium, lead and selenium accumulation was probably related to low intra-replicate variability. Ogden concluded that the Berths 127-131 were acceptable for disposal at LA2.

The sediments from Berths 127-131 were dredged in 1996 and disposed of at the LA2 disposal site. Seven years of sediments have accumulated in front of Berths 127-131 since the last dredge operation, therefore additional sampling and testing was conducted on the sediments to be dredged in 2003.

2.1.6 Berths 153-155

There are no known previous studies conducted in the vicinity of Berths 153-155. Therefore these sediments were sampled as part of the 2003 maintenance dredging effort.

2.1.7 Berths 165-166

The sediments from Berths 165-166 were sampled and tested in June of 2002 by Kinnetic Laboratories/ToxScan Inc. (2002). Four cores were collected to a project depth of –40 ft MLLW (-38 ft MLLW plus two feet overdredge allowance). A single composite sample was generated and subjected to bulk sediment and elutriate analyses. Results of this testing program are summarized in Appendix A. These data showed that concentrations of contaminants relative to ERL guidelines were elevated for a series of metals, PAHs, and PCBs. In addition, mercury, DDT compounds, and pyrene were at concentrations that exceeded ERM guidelines. Contaminant concentrations in the elutriate extract were all below applicable water quality criteria. Thus impacts to harbor waters from solubilizing contaminants into the water column during dredging or from return of decant water should not be a problem.

The Kinnetic Laboratories Inc. (2002) study concluded that the approximately 4300 cubic yards of sediments to be dredged from Berths 165-166 are probably not suitable for open water disposal. However, all sediment contaminant concentrations were below Title 22 criteria (CCR Title 22 §66261.24). Therefore, disposal of these sediments should be possible at a landfill or upland site where contact with aquatic organisms is not a factor. Further toxicity and bioaccumulation testing would be required if the possibility of open water disposal was to be considered. No further sampling and testing was conducted for this effort.

2.1.8 Berths 177-179

The last time sediments from Berths 177-179 were dredged was in 1992. ToxScan (1991) performed the dredge and disposal suitability study on one composite sample and found high levels of DDT and PCBs (greater than the ERM) and elevated levels of PAHs. They also observed amphipod and worm toxicity as well as significant bioaccumulation of metals in clams and worms, and DDD in worms. The sediments were placed in the Pier 300 landfill. Because it has been more than three years since the last dredging, additional sampling and testing was conducted on the sediments to be dredged in 2003.

2.1.9 Berths 180-181

There are no known previous studies conducted in the vicinity of Berths 180-181. Therefore these sediments were sampled as part of the 2003 maintenance dredging effort.

2.1.10 Berths 226-231

The last time sediments from Berths 226-231 were dredged was in 1993. ToxScan (1990) performed the dredge and disposal suitability study on one composite sample from Berths 229-232 and found elevated levels of DDE (just short of the ERM). There was no observed toxicity in any of the particulate phase or suspended particulate phase bioassays. There was significant bioaccumulation of several metals and DDE in the tissues of clams and worms exposed to the test sediments. The sediments were disposed of at LA. Because of the 10 years since the last dredging, additional sampling and testing was conducted on the sediments to be dredged in 2003.

Another study that may be relevant was conducted in 1997 on the sediments adjacent to Berths 226-231 at Berths 233-236 (ToxScan, 1997). Two composites were analyzed. There were elevated levels of total DDT, PCBs, and PAHs in both composites. One composite showed significant toxicity to amphipods when compared to the reference site. This composite also showed significant bioaccumulation of DDTs and pyrene in the tissue of clams exposed to the test sediments and of DDTs, PCBs, and copper in the tissue of worms exposed to the test sediments. Sediments from Berths 233-236 have not been dredged since the 1997 testing.

2.1.11 Berth 240B

AMEC (2001c) sampled the Berth 240B sediments in December of 2000. They sampled the sediment of two thin shoaled areas using a vibracore. Three sampling locations were located within one shoaled area and two sampling locations were located within the second shoaled area. Samples were collected to a project depth of −37 ft MLLW in the first shoaled area and −39 ft MLLW in the second shoaled area. Sediments from all five sampling locations were combined into a single composite sample and subjected to bulk sediment analyses and bioassay/bioaccumulation assessments. The results of this study are summarized in Appendix A. Cadmium, copper, lead, and total PAHs were detected in concentrations between the ERL and ERM. Mercury was found at a concentration twice the ERM. No significant toxicity was observed in animals exposed to the sediments or elutriates prepared from the sediments. There was significant bioaccumulation of metals and PAHs in the tissues of clams exposed to the sediments. However, none of the analytes were found in tissues at levels greater than those detected in the sediments to which they were exposed. Based on these results, AMEC deemed these sediments suitable for disposal at LA2. These Berth 240B sediments have yet to be dredged. Since it has been less than three years since the sediments have been tested, no further sampling and testing was conducted.

3.0 SCOPE OF STUDY

3.1 Approach

Vibracore samples were taken in each berth area and combined into appropriate composite samples to be representative of the sediment to be dredged. A total of fifty-one locations were sampled within the Port of Los Angeles maintenance dredging project area (Figure 1). Table 1 lists the dredge elevations, the estimated volume of material to be removed, the number of cores collected, and the composite samples formed from each berth area. Core locations are depicted on Figures 2 through 11 and the final sampling coordinates are listed on Table 3. The figures also depict the approximate limits of the dredging operations at each berth location.

Five sampling locations were cored for approximately each 10,000 cy of material to be dredged. Vertical composites were made from each core according to the sampling intervals listed in Table 3. A subsample from each vertical composite was subjected to bulk sediment physical and chemical analyses. The remainder of each vertical composite was used to form the horizontal composites representing all or portions of each berth area. Composite samples consisted of the sediments from the five (or in one case six) sampling locations within each composite area. The proposed dredge area at Berths 226-231 required three composite samples made from the sediments of fifteen sampling locations. The adjacent dredge areas for Berths 90-92 and Berths 93A-93B required only one composite sample comprising sediments from five sampling locations. The proposed dredge area at Berths 153-155 required one composite sample comprising sediments from six sampling locations. The remaining six proposed maintenance-dredging areas each required one composite sample comprising sediments from five sampling locations each.

In addition to the various composites to be formed for maintenance dredging evaluation, three additional composite samples were formed from the core material below the maintenance dredging project elevations to –55 ft MLLW at Berths 122-124, 125-126 and 127-131 for potential future deepening of these berths. More than half of the sediments from Berths 127-131 were sampled for both maintenance dredging and future deepening, and Berths 122-124 sediments were only sampled for the purpose of future deepening because recent data exists for the sediments to be removed for maintenance dredging. Also, most of the Berths 125-126 sediments were only sampled for the purpose of future deepening because the current mudline elevation is below the intended maintenance dredging elevation. The upper potion of a single core was used to sample the surface sediments (-43.2 to –47 ft MLLW) from a small shoaled area within the Berths 125-126 dredge area. This sample was subjected to only bulk sediment physical and chemical testing to see if the upper sediments within the shoaled area were noticeably different from the sediments to be removed for the future-deepening project. Because of the likelihood that deepening sediments consist of virgin material with less anthropogenic influence, the yardage of material to be dredged for deepening purposes is much larger per composite sample (approximately 30,000 cy) then the approximately 10,000 cubic yards per maintenance dredging composite.

For all composite samples, composite testing consisted of bulk sediment physical and chemical analyses and biological and chemical testing of the sediment elutriates. For those composite samples representing sediments that looked like good candidates for open water disposal, bioaccumulation assessments and additional toxicity testing were also conducted.

As a cost savings measure, a phased approach was used for the evaluation of the maintenance dredging sediments. The chemical and biological testing procedures detailed in the Inland Testing Manual (ITM), (USEPA/USACE 1998) were used to evaluate the suitability of these maintenance-dredged sediments for unconfined aquatic (open water) disposal. After each phase of testing was completed, critical data review

was performed to direct subsequent test phases. If the results of any test phase indicated that the sediment did not qualify for open water disposal, then subsequent testing was directed toward an alternate disposal option, utilizing a confined disposal facility (CDF) within the harbor or an upland site. New guidance (USACE, 2003a) was used to clarify the test procedures on sediments slated for a confined or upland disposal facility.

The first phase of testing for either open water or CDF disposal was bulk sediment chemical analysis on each composite sample. A determination of whether the sediments were hazardous waste was made from the bulk sediment results using Title 22 criteria, supplemented if necessary by WET testing for any analytes that exceed STLC limits. The results were also used to identify sediments that may not be suitable for open water storage or disposal. In addition to the Title 22 criteria, evaluations were made by comparing data with NOAA sediment quality guidelines consisting of ERL and ERM values (Long and Morgan, 1995). These values correlate concentrations of selected contaminants with the likelihood of adverse biological effects. Table 2 lists available ERL and ERM values. Note that ERLs and ERMs have not been developed for all analytes. Those samples that showed low to moderate levels of contamination that would not be expected to produce severe toxicity proceeded to the next phase of open water testing. Sediments with contaminant levels that were judged likely to produce toxicity were further tested following procedures detailed in the Upland Testing Manual (UTM) (USACE 2003a). Three of the twelve composite samples were determined to be unworthy of further testing for open water placement. These composites were made from the sediments of Berths 153-155, 177-179 and 180-181.

This first phase of testing also included elutriate analyses. Both open water and CDF disposal requires chemical analysis of sediment elutriate prepared with water from the dredge site. For open water disposal, the ITM describes methods for preparation of a "standard elutriate", while the UTM requires analysis of an "effluent elutriate," prepared by slightly different methods, for disposal at a confined disposal facility. Elutriate chemistry results were evaluated by comparing them with water quality standards to assure that, after appropriate dilution and mixing have occurred, water quality criteria would not be exceeded. Except for mercury, the water quality criteria used were the "acute" criterion maximum concentrations (CMC) and "chronic" criterion continuous concentrations (CCC) from the California Toxics Rule (40 CFR Part 131, USEPA 2000a). For evaluation purposes, mercury criteria were used from the water quality objectives for marine aquatic life listed in the California Ocean Plan (SWRCB, 2001).

The second phase of testing for CDF disposal, which included the sediments from Berths 153-155, 177-179 and 180-181, is an elutriate bioassay with a single, sensitive water column species. Elutriate toxicity is evaluated to assure that the Limiting Permissible Concentration (LPC) would not be exceeded by effluent water returning to the disposal environment from the CDF.

Testing prescribed by the ITM for open water disposal comprises elutriate bioassays with three water column species, benthic bioassays with two infaunal species, and evaluation of bioaccumulation potential using two sediment-dwelling organisms. After the bioassays were complete, the results were evaluated to determine if sediment toxicity is severe enough to preclude open water disposal.

Following ITM guidelines, results of the test sediments were compared to reference area sediments in the vicinity of the disposal sites. For this study, an in-harbor reference site has been designated between the Pier 400 submerged storage site and the outer harbor breakwater near 33° 43.5' N and 118° 15.5' W (Figure 1). Reference sediment from near the LA2 ocean disposal site (33° 37.1' N and 118° 17.4' W) was also tested.

Suspended particulate-phase (water column) bioassays using mysids, fish and larvae of mussels or oysters were conducted on sediments considered for open-water disposal in the harbor. Standard elutriates were

prepared with water collected from the main channel, and dilution water consisted of clean open-coast seawater at the bioassay laboratory in Santa Cruz. Concurrent bioassays were performed on elutriates and laboratory control water. Results of the elutriate bioassays were statistically compared with control water bioassays. Elutriates that produce significantly greater toxicity than control water were identified, and if mortality and/or development effects were sufficiently high to produce LC50 and/or EC50 values, initial mixing calculations were performed to specify limiting permissible concentrations (LPCs). Sediments that do not exceed their LPCs may be placed at an open-water disposal site.

Solid phase (benthic) bioassays were also conducted on sediments considered for open-water disposal using worms and amphipods. Test sediments underwent bioassay testing concurrently with the reference sediments collected both from the vicinity of the outer harbor disposal site and from the vicinity of the LA2 offshore disposal site, and with control sediments collected from the organisms' home environment. Results of the benthic bioassays were statistically compared with reference sediment bioassay results. Test sediments that produced statistically greater mortality than reference sediments in which test mortality exceeded reference mortality by greater than an allowable percentage, were considered to exceed the Limiting Permissible Concentration (LPC) for disposal.

The 28-day bioaccumulation exposures were performed on sediments considered for open water disposal using worms and clams. Test sediments were exposed concurrently with reference and control sediments. If sediments were not severely toxic to benthic species, the final phase of testing for open water disposal was accomplished by analyzing the tissues of organisms that completed the 28-day exposures to test sediments along with control and reference sediments. Concentrations of metal and organic contaminants in tissues of organisms exposed to reference sediments were compared with concentrations in organisms exposed to test sediments. Constituents that showed statistically significantly elevated concentration in test tissues were considered to be potentially bioaccumulative, and were then evaluated to determine if these levels are biologically important.

4.0 METHODS

4.1 Sampling Methods

4.1.1 Sediment Sampling

Vibracore sampling was conducted from the Kinnetic Laboratories survey vessel the *D.W.HOOD.* This 35-foot survey vessel is equipped with a hydraulic A-frame and winch suitable for handling the coring equipment. Accompanying the *D.W. HOOD,* was a 17-foot Boston Whaler. This chase boat was used to assist the *D.W. HOOD* with three-point anchoring and to transport cores to a shore-based processing area.

Sample coordinates, water depths, and mudline elevations corrected to MLLW were recorded at each sampling location. Navigation and final positioning were conducted using a Garmin 215D series differential GPS navigation system, operating in differential mode. Water depths were measured with a graduated lead line. Tidal stage was determined using *Tide Tool 2.1a* software checked against a local tide gauge. Figures 2 through 11 show the core locations sampled and Table 3 lists the core lengths obtained, mudline and sample recovery elevations, number of cores collected at each sampling location, and final positions of each location.

Coring was conducted with a vibracore built by Kinnetic Laboratories. This vibracore consists of a 4-inch diameter aluminum coring tube lined with clean polyethylene tubing, a stainless steel cutting tip, and a stainless-steel core catcher. The vibrating unit has two counter-rotating motors encased in a waterproof aluminum housing. A three-phase, 240-volt generator powers the motors. The vibracore head and tube were lowered overboard with a hydraulic A-frame and winch. The core tube was allowed to penetrate the surficial materials below the mudline as far as possible under the static weight of the vibracore unit. The unit was then vibrated until it reached project depth plus two feet for overdredge, or until the vibracore was rejected from further penetration. To accurately calculate penetration depth, the lead-line measurements were taken just prior to the coring operation.

After successfully penetrating to the desired depth, power was shut off to the vibracore head, and the vibracore was brought aboard the vessel. A check valve located on at the top of the core tube reduces or prevents sediment loss during pullout. The length of sediment recovered was noted by measuring down the interior of the core tube to the top of the sediment. The core tube was then detached from the vibra-head and the core cutter and catcher were removed. The core liners were then sealed and the core tubes were capped and transported to the shore-based processing facility. Two cores were taken at numerous sampling sites to ensure sufficient material for analytical and biological testing.

Except for the plastic bucket dredge used for reference sediment collection, all sample contact surfaces were either stainless steel, polyethylene, Halar®, or Teflon coated. Compositing tools were stainless steel or Halar®-coated stainless steel. All contact surfaces of the sampling devices were cleaned for each sampling area. The cleaning protocol consisted of a site-water rinse, a Micro-90® soap wash, steam cleaning, and then finished with de ionized water rinses.

4.1.2 Water Sampling

Water was collected from the main channel during two different occasions for use in preparing elutriates for chemical analyses and bioassays. A sample of background water was also collected

during each occasion to assess ambient aquatic chemistry. The first set of water samples collected were used exclusively for Berths 226-231. The second set was used for the remaining dredge areas.

A peristaltic pump with Teflon tubing was used to collect water from a depth of 1 ft below the water surface. Water for chemical analysis was pumped into protocol-cleaned 10 liter *borosilicate glass bottles.* Water for biological testing was pumped into 5-gallon polyethylene containers. All water samples were iced and shipped to the analytical laboratory where they were held at 4ºC until used.

4.1.3 Core Processing

Following retrieval, all cores were transported to a shore-based processing area and kept in a refrigerated truck until processed. Sediment cores were processed by extruding the core liners and sediment onto cleaned PVC core racks. The liners were then cut open with a clean pair of scissors. If extrusion was not possible, the core tubes were split lengthwise using a double-cut shears to expose the core liner. Once exposed, sediment that came in contact with the core liner was removed with a pre-cleaned stainless steel spoon.

Before sub-sampling, each core was photographed, measured, and lithologically logged according to the United Soil Classification System (USCS). Additional sediment characteristics including likely sediment origin and other observations were also recorded. Logged physical characteristics for each core can be found in the geotechnical report prepared by Diaz Yourman & Associates and attached as Appendix C.

Following logging, a vertical composite was taken from each core by a vertical scrape protocol that resulted in equal sub-sampling along the entire length of the core. Part of each vertical composite was subjected to separate chemical analysis while the other part was used to form a composite sample. Sub-samples were also taken from each core for later analysis of physical characteristics.

Sediment composites were formed for bulk sediment chemistry, elutriate, and possible bioassay testing. Vertical composites were collected first from each core. Then a proportionate amount of the five (or six) vertical composite samples from each composite area were transferred into a pre-cleaned stainless steel pan and manually homogenized. A separate protocol-cleaned compositing vessel was used for each composite area. Composite samples were then transferred into appropriate pre-cleaned sample containers. Sediment samples for bulk sediment and elutriate chemical analysis were placed into pre-cleaned and certified glass jars with Teflon-lined lids. Sediment for bioaccumulation and bioassay assessments were placed into pre-cleaned, polyethylene-lined 3.5 gallon buckets with lids. Except for samples to be analyzed for dissolved sulfides, all sediment samples were either packed on ice or placed into a refrigerated truck where they were maintained at 2-4º C until delivery to the laboratory. Samples for dissolved sulfides were placed in a separate polyethylene jar, frozen immediately with dry ice, and kept frozen until analyzed.

All samples were handled under Chain of Custody protocols beginning at the time of collection. Sampling data was also recorded on field log sheets.

4.1.4 Reference and Control Sediments

Samples of reference sediments were collected for biological and chemical testing. Samples were collected from a designated in-harbor reference site (33° 43.5' N and 118° 15.5' W) in the vicinity of a proposed open-water disposal site (Pier 400 Submerged Storage Site, Figure 1) and at the LA2 reference site (33° 37.1' N and 118° 17.4' W). Reference sediments were collected with a chain-rigged, plastic bucket dredge deployed from the *D.W. HOOD*. The bucket dredge was lowered to the bottom at each site and then towed for several minutes around the target sampling coordinates before retrieval. Retrieved sediments were immediately placed into appropriate containers and iced.

Samples of control sediment were collected for biological testing. Control sediment for amphipod bioassays were the "home sediment" from the area where the amphipods were collected. Control sediment for *Nephtys* bioassays were "home sediment" from the area where polychaetes were collected (Tomales Bay). Tomales Bay sediment also served as the control sediment for bioaccumulation exposures.

4.1.5 Documentation

All samples were handled under Chain of Custody documentation. Samples were marked with pre-printed, waterproof labels listing unique alphanumeric identifications. Duplicate information was recorded on the chain of custody form, which also includes sampling information such matrix, analysis, method, and detection limit. Completed Chain of Custody forms accompany the Laboratory Reports on CD-ROM in Appendix E.

The following information was recorded on unique field logs for each boring: station identification, date and time, climatic and rainfall data, sea state observations, total coring time, boring coordinates, core number, depth of penetration, core length recovery, core length requirement, sample type and interval, stratigraphic observations, tidal stage and water depth. Copies of the field logs are provided in Appendix D.

4.2 Laboratory Testing Methods

4.2.1 Bulk Sediment Analysis

ToxScan, Inc. (Cal-ELAP No. 1515), a State Certified analytical laboratory, performed all chemical and biological analyses. Only USEPA and USACE approved methodologies were used.

Bulk sediment analytical parameters, methods, and proposed detection limits are presented in Tables 4 and 5. Sediment samples were analyzed in a manner consistent with guidelines for dredge material testing methods in the USEPA/USACE ITM (USEPA/USACE 1998). Samples were extracted and analyzed within specified EPA holding times, and all analyses were accomplished with appropriate quality control measures.

4.2.2 Elutriate Preparation Methods

Standard elutriates were prepared according to ITM methods. Sediment was mixed with dredge site water in a 4:1 volumetric ratio. Vigorous mixing proceeded for 30 minutes, and the mixture was allowed to settle undisturbed. The clear supernatant was carefully collected and used as the test media for chemical and bioassay analyses. Dissolved metal analyses were performed on a

0.45µ filtered subsample of elutriate. Total metals and organic analyses utilized unfiltered elutriate.

Effluent elutriates were prepared following the methods described in the ITM, (Appendix B-3.3.) A slurry of sediment and dredge site water was prepared at a concentration of 150 g/L (dry weight basis). The slurry was mixed for five minutes to a uniform consistency with a laboratory mixer, and then vigorously aerated for one hour. The aerated slurry was allowed to settle for 24 hours. Afterwards, the supernatant was siphoned off. Prior to the analysis of dissolved metals, the elutriate was filtered through a 0.45µ filter. All other analyses were performed on unfiltered elutriate. Total metals analysis was not required.

The analytes, test methods, and reporting limits for elutriate chemical analysis are presented in Tables 4 and 5.

4.2.3 DI-WET Tests

Leaching characteristics were evaluated by use of a modification of the State of California, Title 22 Waste Extraction Test (WET) known as the DI-WET. This modified WET uses deionized water as an extractant rather than sodium citrate used in the standard WET test.

The DI-WET test involved extracting 50 grams of sediment for 48 hours at a ratio of one part sediment to ten parts deionized water. After extraction, the solution was filtered through a 0.45-micron filter prior to analysis. Analytical results were reported as micrograms of each constituent per liter of extractant.

The DI-WET results were compared against the Title 22 California Code of Regulations (CCR) Soluble Toxicity Concentration Limit (STLC) values to evaluate whether a sample is regarded by California as a hazardous waste.

4.2.4 Bioassay Analyses

For those berth areas where unconfined aquatic disposal is an option, the composite sediments along with reference-area and control sediments were tested for toxicity and for bioaccumulation potential. Bioassay protocols followed the ITM (USEPA/USACE, 1998) for both Suspended Particulate (elutriate) Phase and Solid Phase bioassays. Phase III testing for CDF disposal requires only a single Suspended Particulate-Phase bioassay.

All species used in this testing program comply with ITM recommendations and guidelines for bioassay and bioaccumulation tests.

For Suspended Particulate-Phase bioassays (open water):

Mysidopsis bahia (mysid)
Menidia beryllina (fish)
larvae of *Mytilus galloprovincialis* (mussel)

For Suspended Particulate-Phase bioassays (CDF disposal):

larvae of *Mytilus galloprovincialis* (mussel)

For Solid Phase Bioassays:

Nephtys caecoides (worm)
Ampelisca abdita (amphipod)

The methods and endpoints used for the bioassays are listed in Table 6.

4.2.5 Bioaccumulation Assessment

The ITM requires a 28-day exposure period of two benthic species to test, reference, and control sediments prior to tissue analysis. The species used for this program, which conform to ITM recommendations, are as follows:

Nereis viriens (worm)
Macoma nasuta (clam)

Following exposure of the organisms to the test sediment, they were placed in a clean, non-stressful environment to purge their systems of test sediment. The purge time was long enough to purge sediment, but not long enough to allow them to depurate accumulated toxicants. Generally, 24 hours was sufficient, but a few organisms were sacrificed to ensure completion of the purge.

Tissue samples were thoroughly homogenized with a stainless steel Tekmar Tissuemizer. The entire blade and barrel assembly was pre-cleaned with hot DI water and Micro 90® detergent and then rinsed thoroughly with DI water. The blade was rinsed again with DI water just prior to use. The Tissuemizer was triple rinsed between samples to minimize sample cross contamination. Samples were triple-wrapped and frozen when not in use. All tissue handling and processing was conducted at a laminar flow bench in a trace-metal clean laboratory.

Bioaccumulation tissue samples for sediment composites that passed the chemical screening and bioassay testing, and qualified as viable candidates for open water disposal were analyzed according to the list of constituents in Table 4. Methods and proposed analytical detection limits for the analysis of these tissues are listed in Tables 4 and 5.

4.2.6 Statistical Evaluations

Statistical analysis of experimental data was performed for each of the bioassay and bioaccumulation assessments. Tests of fundamental assumptions (e.g., variance homogeneity) were followed by the appropriate parametric or non-parametric analyses.

In cases where a contaminant was detected in tissues of organisms exposed to test sediment but was not detected (ND) in reference tissues, a value was assigned to the ND sample which equaled 50% of the analytical detection limit (DL) for that contaminant. This is consistent with interim recommendations published in the ITM (USEPA/USACE, 1998).

Variance homogeneity is one of the underlying assumptions of most parametric statistics. Bartlett's or Cochran's test was therefore applied to the data from the bioassays and the tissue chemistry of the bioaccumulation assessments. Significant results for this and all subsequent parametric tests were determined by the critical value (alpha = 0.05) of the appropriate distributions.

Once homogeneity has been established, the ANOVA and Dunnett's test were employed to analyze differences between treatment responses (e.g., test sediment tanks). Survival responses in the control tanks serve primarily for procedural quality assurance.

When sample variances did not exhibit homogeneity, as determined by Cochran's test, the Testing Manual recommends a data transformation. Arcsine Check was applied to proportional data of bioassays and log(x + 1) was applied to bioaccumulation data which are not homogenous. When the data transformation was unable to compensate the deviation, non-parametric tests were employed.

Non-parametric procedures use ranked values for calculating test statistics and the corresponding hypotheses use rank sums for comparison. Kruskal-Wallace and Wilcoxson-Wilcox tests were used to identify differences between treatment responses.

ITM guidelines for interpretation of suspended particulate-phase bioassays require that initial mixing calculations be performed to determine the concentration of suspended particulate material remaining at the disposal site within four hours after dumping (Csp) for any sample producing toxicity sufficient to generate an LC50. If the Csp does not exceed 1% of the LC50, the sediment was judged to comply with water column toxicity criteria.

Guidelines for interpretation of benthic bioassay results are published in the ITM. If survival responses in test sediment were statistically significantly lower than those in reference sediment *and* if the difference in mean survival between groups was greater than 10% (20% for amphipods), then the test sediment was considered to have the potential to significantly degrade the marine environment.

Guidelines for evaluation of bioaccumulation are described in the ITM and the District Engineer and the Regional Administrator make final interpretation. Therefore, statistical testing of bioaccumulation test phase results was complete when appropriate comparison (Dunnett's or Wilcoxson-Wilcox) described significant or non-significant tissue burden from exposure to dredged material.

4.3 Geotechnical Testing

Diaz Yourman & Associates performed the geotechnical portion of this study. A complete report prepared by Diaz Yourman & Associates, which includes the procedures used to determine grain size distribution and Atterberg limits, has been attached as Appendix C.

5.0 QUALITY ASSURANCE/QUALITY CONTROL SUMMARY

Kinnetic Laboratories/ToxScan conducts its activities in accordance with formal QA/QC procedures. The objectives of the QA/QC Program are to fully document the field and laboratory data collected, to maintain data integrity from the time of field collection to storage at the end of the project, and to produce the highest quality data possible. The program is designed to allow the data to be assessed by the following parameters: Precision, Accuracy, Comparability, Representativeness, and Completeness. These parameters are controlled by adhering to documented methods and procedures (SOPs), and by the analysis of quality control (QC) samples on a routine basis. Appendix B describes QA/QC procedures employed in this study as well as a summary of laboratory QA/QC results.

Field Quality Control includes adherence to SOPs and formal sample documentation and tracking. Analytical chemistry Quality Control is formalized by EPA and State Certification agencies, and involves internal quality control checks such as method blanks, matrix spike/spike duplicates, duplicates, surrogates, and calibration standards (USEPA 1994b, 1994c). Standard Reference Materials (SRMs) are also run along with calibration standards for each batch of samples.

Quality assurance measures applied to aquatic toxicity testing are explicitly stated in the various protocols specified. Monitoring of test conditions is important in these quality control measures. Key monitoring factors for the bioassay tests are summarized in Appendix F and include temperature, salinity, pH, dissolved oxygen, dissolved sulfides and ammonia in overlying waters and interstitial waters. Two other important measures are the inclusion of an experimental control, where organisms are simultaneously exposed to laboratory test conditions in the absence of a toxicant stress, and the inclusion of reference toxicant bioassays, where the organisms are exposed to standard toxicants and the results compared to a control chart. A discussion of the QA/QC findings for the biological testing is included in Appendix B, with supporting data tables given in Appendix F.

All analytical data collected for the Malaga Mudstone testing project underwent QA/QC evaluation according to EPA National Functional Guidelines for inorganic and organic data review (USEPA 1994b and 1994c). These data were then qualified if necessary and as appropriate.

A detailed report of laboratory QA/QC findings is located in Appendix B. A summary of findings based upon the validation of the data generated by this project is as follows:

- All chemical analyses were completed within holding times.
- Method blanks for most analyses indicated no contamination associated with most analytical procedures. Exceptions were blanks for chromium, copper nickel, selenium, bis(2-ethylhexyl)phthalate, di-n-butylphthalate, diethyl phthalate, dibutyltin, tributyltin, and monobutyltin associated with some sediment analyses, and chromium, nickel, copper, lead, and zinc associated with some water or elutriate analyses. The concentrations of chromium, copper, and nickel reported in the sediment blanks were insignificant relative to concentrations found in samples. The sediment selenium blank concentration was between 13% and 60% of concentrations reported in the samples. Thus, the associated sediment data were qualified as non-detected (“U”). The organic data warranted qualification (“U”) when sample concentrations were less than five times the blank detection. For the chromium, nickel, copper, lead, and zinc detected in the

water method blanks, all detections were less than five times the project detection limits and therefore no elutriate or water data were qualified.

- Based upon laboratory duplicate analyses, acceptable precision was achieved for all analyses with the exception of total sulfides in sediment and percent lipids in tissues. These results were qualified with a "J" flag.
- Variability between matrix spikes and matrix spike duplicates was within acceptable limits except for dibutyltin, tributyltin, and tetrabutyltin species in sediment and monobutyltin and tetrabutyltin in elutriate samples. One matrix spike duplicate yielded high recoveries for all three species. These results have been annotated with a "J" flag in the chemistry tables. The lack of precision for monobutyltin and dibutyltin is directly related to the consistently poor spike recoveries inherent with the analytical method. In the reference sediments, poor MS recovery for copper and zinc were observed but were not qualified because other QA measures were acceptable. The MS/MSD RPD slightly exceeded QC limits for acenaphthene in reference sediments; no data were qualified because precision was only slightly affected and accuracy was acceptable.
- Surrogate spiked recoveries of metals, chlorinated pesticides, semivolatile compounds and speciated butyltins in sediment and elutriates were all within QC limits with the exception of one compound, 2-Fluorobiphynyl for one sample, which was detected above recovery limits. This resulted in only one compound (acenaphthylene) being qualified as an estimate ("J") for that sample.
- The use and good recovery of standard reference materials, showed a high degree of accuracy for most metals and conventional analyses. The exception was the SRMs for cadmium in one sediment batch and chromium in another. The associated samples were qualified as an estimate ("J").
- Dissolved zinc values associated with some elutriate samples were higher than total values. Even though the QC objectives for the associated samples were met, use of the data should be cautionary.
- Target reporting limits (dry weight basis) were met for most analytes. The exception was butyltins in sediments, where target limits were 1 ug/kg and achieved limits ranged from 1.2 to 1.9 ug/kg. This shortfall in reporting limits is probably not environmentally significant in view of measured concentrations in most sediment samples.
- Bioassay test performance requirements were met except for the *Ampelisca* test where mean survival in home control sediment was 3% below the 90% required for test validity. This survival shortfall was due to high mortality in one of five replicates. The remaining performance criteria were met, and survival in both reference sediments exceeded 90%. The test could not be repeated because of a lack of sediment. The *Ampelisca* test data were judged to be useable, but qualified. All other bioassays met acceptance criteria and were considered valid.
- Monitoring during test performance showed that all measured environmental parameters (temperature, dissolved oxygen, salinity and pH) remained within protocol limits except for a temperature elevation of <1C during the first day of the *Menidia* test started on May 28. This temperature excursion was immediately corrected by adjustment of the temperature controller.
- All bioaccumulation replicate exposure tanks yielded adequate tissue weight to perform required chemical analyses. The temperature of the flow-through seawater system averaged around 14°C, ranging between 12°C and 16°C over the four- week exposure period. Dissolved oxygen, salinity and pH in seawater tanks reflected typical oceanic conditions over the entire exposure period.

- Overall, evaluation of the quality control/quality assurance data indicates that the chemical and toxicity data are generally within established performance criteria and can be used reliably for general characterization of sediments in the proposed project area.

6.0 RESULTS AND DISCUSSION

The results of this study are presented in a series of summary tables. The bulk sediment chemistry results are presented in Tables 7 through 14. Title 22 criteria, ERL and ERM effects levels, and reference sediment results are included in each bulk sediment table to assist in evaluation. The standard and effluent elutriate chemistry results are presented in Tables 15 through 22. California Toxics Rule and Title 22 STLC criteria are included with the elutriate results to assist in evaluation. Survival data for both the solid phase bioassays and LC50 and EC50 data for the suspended particulate phase bioassays are presented in Table 23. Complete analytical laboratory reports are included in Appendix E and bioassay results are included in Appendix F. Summaries of mean tissue concentrations after 30-day exposures of *Macoma nasuta* and *Nereis viriens* to test and reference sediments are presented in Tables 24 and 25.

The results for each berth area sampled for 2003 maintenance dredging and/or future deepening are discussed separately below.

6.1 Berths 90-92 and 93A-93B Maintenance Dredging

Three core samples were collected from Berths 90-92 and two core samples were collected from Berths 93A-93B as illustrated in Figure 2. Each core represents dredge material from the mudline down to –39 ft MLLW. Because of the limited amount of material to be dredged, all five cores from both berth areas were combined into a single composite sample. In addition to bulk sediment and elutriate analyses, bioassays and bioaccumulation exposures were performed on the composite sample. Bulk sediment chemistry and physical testing were also performed on each of the individual core samples.

6.1.1 Bulk sediment chemistry

The composite sample from Berths 90-92 and 93A-93B consisted primarily of sand (59.1%), with lesser amounts of silt (22.1%) and clay (18.9%). In comparison, the LA2 and Pier 400 reference sites consisted of 81.6% and 23.2% sand, respectively.

The composite sample from Berths 90-92 and 93A-93B showed elevated levels of many inorganic and organic constituents (Table 7). However, all hazardous waste constituents were well below Title 22 TTLC criteria. DDE, total DDTs, and several individual PAHs exceeded ERM values, while copper, mercury, total PCBs, and total PAHs exceeded ERL values. Analysis of individual core segments showed generally higher levels of metals contaminants compared to the composite sample, while Sites 3 and 5 appear to contribute a majority of the organics contamination.

Total speciated butyltins (as dibutyltin, monobutyltin, tributyltin and tetrabutyltin) were detected in the Berths 90-92 and 93A-93B composite sample at a concentration of 299 ug/kg. Butyltin concentrations in individual cores ranged from 151 ug/kg (Site 3) to 459 ug/kg (Site 2). Sediment quality guidelines do not exist for speciated butyltins.

When comparing the Berths 90-92 and 93A-93B composite sediment results with the reference sites, the Pier 400 reference site showed similar levels of nutrients, metals, petroleum hydrocarbons, DDT, and PCBs but considerably lower levels of butyltins and PAHs. Except for a few metals that were similar in concentration, sediment from the LA2 reference site was generally lower in contaminant concentrations.

6.1.2 Elutriate Chemistry

Results of the chemical analysis of both standard and effluent elutriate from the Berths 90-92 and 93A-93B sediment composite are shown in Table 15.

Dissolved metal concentrations in both the standard and effluent elutriates from Berths 90-92 and 93A-93B were below "chronic" (CCC) screening criteria, and were similar to background water concentrations, although total and dissolve arsenic values were nearly 20 times higher in the standard elutriate and nearly 10 times higher in the effluent elutriate. However, the arsenic values were still below chronic water quality criteria.

Tributyltin concentrations exceeded the CCC criterion by a factor of 37 in the Berths 90-92 and 93A-93B effluent elutriate and by a factor of 80 in the standard elutriate. However, the tributyltin concentration in both elutriates were well below the "acute" (CMC) criterion. The background water sample exceeded the CCC criterion by a factor of seven.

Except for very low concentrations of a few PAHs, none of the organic compounds were detected in either elutriate from Berths 90-92 and 93A-93B, and all organic compounds were undetected in the background water sample.

6.1.3 Toxicity Testing

Water column (suspended particulate phase) bioassay results for Berths 90-92 and 93A-93B sediments (Table 23) indicate no significant toxicity to *Americamysis* or *Menidia* (LC50=>100%) and minor toxicity to *Mytilus* (LC50= 70.9%, EC50 =69%). Initial mixing calculations show that the LPC ***would not*** be exceeded by unconfined aquatic disposal of the sediments.

Benthic (solid phase) bioassay results for the Berths 90-92 and 93A-93B sediment composite are summarized in Table 23. The results indicate that worm survival (*Nephtys*) in these sediments (100%) was not significantly lower than survival in reference sediments from LA2 (98%) or from Pier 400 (94%). Amphipod *(Ampelisca*) survival in Berths 90-92 and 93A-93B sediments (51%) was significantly lower than survival in LA2 reference sediments (92%) and in Pier 400 reference sediments (91%). The difference between survival in test and reference sediments was greater than 20%, meaning that the LPC ***would*** be exceeded for open water disposal.

Note that the *Ampelisca* bioassay showed an 87% survival in home control sediment, which is less than the 90% recommended by the test protocol. This was caused by poor survival in one replicate. This test was judged to be useable because of good reference survival and adequate sediment was not available for a retest.

6.1.4 Bioaccumulation Assessment

Nereis viriens

Analysis of worm (*Nereis*) tissues after exposure to the Berths 90-92 and 93A-93B sediment composite revealed that the mean concentration of only one metal was statistically significantly higher than either of the reference tissue mean concentrations (Table 24). Specifically, the mean tissue concentration of copper was 1.1 times higher than the mean copper concentration in worms exposed to the Pier 400 reference sediment.

Of the organic compounds, no chlorinated pesticides or PCBs were statistically significantly elevated in worm tissue after exposure to Berths 90-92 and 93A-93B sediments (Table 24). However, there were six individual PAH compounds (benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, fluoranthene, and pyrene) that were statistically significantly elevated when compared with both reference sediments. All six compounds were undetected in the reference tissues. This resulted in tissue burdens for these compounds that ranged from about 9 (benzo(a)pyrene) to 49 (pyrene) times higher than reference tissues. Note that for statistical evaluation, analytes undetected in the tissues were equivalent to 50% of the detection limit.

Macoma nasuta

Analysis of clam (*Macoma*) tissues after exposure to the Berths 90-92 and 93A-93B sediment composite revealed three metals (copper, lead, and zinc) in mean concentrations that were statistically significantly higher than LA2 reference tissue mean concentrations (Table 25). Copper was 1.3 times higher, lead was 2.6 times higher, and zinc was 1.2 times higher. No metals were significantly elevated above the Pier 400 reference tissues.

Several of the organic compounds in clam tissues exposed to the Berths 90-92 and 93A-93B sediment composite were statistically significantly elevated over reference tissue levels (Table 25). Of the chlorinated pesticides, DDE was 1.6 times higher, DDT was 7.6 times higher, and total DDTs were 2.0 times higher compared to the LA2 reference tissues. Total PCBs were 10.8 times higher and 4.3 times higher compared to the LA2 and Pier 400 reference tissues, respectively. There were also nine PAH compounds (anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, chrysene, fluoranthene, indeno(1,2,3 cd)pyrene, and pyrene) plus total PAHs that were statistically significantly elevated in the test tissues compared to both reference tissue samples. Except for benzo(a)pyrene (33.5 ug/kg) in the Pier 400 tissues, all nine compounds were undetected in the reference tissues. This resulted in tissue burdens for these compounds that ranged from 4.4 (anthracene) to 400 (pyrene) times higher than reference tissues. Note that for statistical evaluation, analytes undetected in the tissues, including DDTs, PCBs, and PAHs, were equivalent to 50% of the detection limit.

6.2 Berths 122-124 Future Deepening

Five core samples were collected from Berths 122-124 as illustrated in Figure 3. Since previous (2001) data exists for the maintenance dredging sediments, the samples collected only represent the sediments proposed for future deepening. Thus each core represents dredge material from -48 ft MLLW to –55 ft MLLW. In addition to bulk sediment and elutriate analyses, bioassays and bioaccumulation exposures were performed on the composite sample. Bulk sediment chemistry and physical testing were also performed on each of the individual core samples.

6.2.1 Bulk Sediment Chemistry

The composite sample from Berths 122-124 consisted primarily of sand (77.6%), with lesser amounts of silt (13.0%) and clay (9.4%). In comparison, the LA2 and Pier 400 reference sites consisted of 81.6% and 23.2% sand, respectively.

The composite sample from Berths 122-124 showed relatively low concentrations (below effects levels) of most inorganic and organic constituents (Table 8). Only total DDTs exceeded ERL values, while no constituents exceeded ERM values. Analysis of individual core segments showed generally higher levels of metals contaminants compared to the composite sample with

two of the five core samples exceeding ERL values for copper and nickel and one core sample exceeding the ERL value for arsenic. DDE and total DDTs were also relatively higher in the individual core samples with three core samples exceeding the ERL value for DDE and four of the core samples exceeding the ERL value for total DDTs. The Site 2 sample exceeded ERL values for the PAH compounds acenaphthene and anthracene.

Total speciated butyltins (as dibutyltin, monobutyltin, tributyltin and tetrabutyltin) were detected in the Berths 122-124 composite sample at a concentration of 11.0 ug/kg. Butyltin concentrations in individual cores ranged from below the detection limit (Site 5) to 44.7 ug/kg (Site 3). Sediment quality guidelines do not exist for speciated butyltins.

When comparing the Berths 122-124 composite sediment results with the reference sites, the LA2 reference site showed similar levels of nutrients, metals, organotins, and organic pollutants and the Pier 400 reference site showed relatively higher levels of oil and grease, metals, DDTs, and PCBs.

6.2.2 Elutriate Chemistry

Results of the chemical analysis of both standard and effluent elutriate from the Berths 122-124 sediment composite are shown in Table 16.

Dissolved metal concentrations in both the standard and effluent elutriates from Berths 122-124 were below "chronic" (CCC) screening criteria. Except for dissolved zinc in the standard elutriate, metal concentrations in the elutriates (total and dissolved) were similar to background water concentrations. Dissolved zinc was approximately seven times higher in the standard elutriate sample. However, the dissolved zinc data is suspect since the dissolved fraction was around four times higher than the total fraction even though all quality control objectives were met.

Tributyltin concentrations exceeded the CCC criterion by a factor of three in the Berths 122-124 effluent elutriate and by a factor of 11 in the standard elutriate. However, the tributyltin concentration in both elutriates were well below the "acute" (CMC) criterion. The background water sample exceeded the CCC criterion by a factor of seven.

Except for a very low concentration of pyrene in the standard elutriate, none of the organic contaminants were detected in either elutriate from Berths 122-124, and all organic compounds were undetected in the background water sample.

6.2.3 Toxicity Testing

Water column (suspended particulate phase) bioassay results for Berths 122-124 sediment (Table 23) show no significant toxicity to *Americamysis*, *Menidia* or *Mytilus* (LC50 and EC50 for all three species=>100%).

Benthic (solid phase) bioassay results for the Berths 122-124 sediment composite are summarized in Table 23. The results show that worm (*Nephtys*) survival in the test sediments (92%) was not statistically significantly lower than survival in reference sediments from LA2 (98%) or from Pier 400 (94%). Worm survival in control sediment was 98%. Amphipod (*Ampelisca*) survival in Berths 122-124 sediments (77%) was also not significantly lower than survival in LA2 reference sediment (92%) and in Pier 400 reference sediment (91%).

6.2.4 Bioaccumulation Assessment

Nereis viriens

Analysis of worm (*Nereis*) tissues after exposure to the Berths 122-124 sediment composite revealed that none of the mean metal concentrations were statistically significantly higher than either of the reference tissue mean concentrations (Table 24).

Of the organic compounds, only total PCBs were statistically significantly elevated in worm tissue exposed to Berths 122-124 sediments. The Berths 122-124 worm tissue had a mean concentration of total PCBs that was about 3.3 times higher than the reference tissues. Note that for statistical evaluation, analytes undetected in the tissues were equivalent to 50% of the detection limit.

Macoma nasuta

Like the Nereis tissues, clam (*Macoma*) tissues analyzed after exposure to the Berths 122-124 sediment composite revealed that none of the mean metal concentrations were statistically significantly higher than either of the reference tissue mean concentrations (Table 25).

A few of the organic compounds in clam tissues exposed to the Berths 122-124 sediment composite were statistically significantly elevated over reference tissue levels (Table 25). Total PCBs were 18 times higher and 7.1 times higher compared to the LA2 and Pier 400 reference tissues, respectively. There were also three PAH compounds (benzo(b)fluoranthene, benzo(a)pyrene, and pyrene) plus total PAHs that were statistically significantly elevated in the test tissues compared to both reference tissue samples. Except for benzo(a)pyrene (33.5 ug/kg) in the Pier 400 tissues, all three compounds were undetected in the reference tissues. This resulted in tissue burdens for these compounds that were 11 times higher for benzo(b)fluoranthene, 2.2 times higher for benzo(a)pyrene, and 16.5 times higher for pyrene compare to the reference tissues. Note that for statistical evaluation, analytes undetected in the tissues were equivalent to 50% of the detection limit.

6.3 Berths 125-126 Future Deepening

Five core samples were collected from Berths 125-126 sediments as illustrated in Figure 4. Since most of this area does not require maintenance dredging, the samples collected only represent the sediments proposed for future deepening. Thus, except for one core location (Site 4), each core represents dredge material from the mudline elevation (-45 to –47 ft MLLW) to –55 ft MLLW. A second sample representing a small shoaled area was collected from Site 4. Therefore, Site 4 had one sample representing the sediments from –43.2 to –47 ft MLLW and one sample representing the sediments from –47 to –55 ft MLLW. In addition to bulk sediment and elutriate analyses, bioassays and bioaccumulation exposures were performed on the composite sample. Bulk sediment chemistry and physical testing were also performed on each of the individual core samples including the top of Site 4.

6.3.1 Bulk sediment chemistry

The composite sample from Berths 125-126 consisted primarily of sand (54.8%), with lesser amounts of silt (24.6%) and clay (20.6%). In comparison, the LA2 and Pier 400 reference sites consisted of 81.6% and 23.2% sand, respectively.

The composite sample from Berths 125-126 showed relatively low concentrations (below effects levels) of most inorganic and organic constituents (Table 9). Only DDE, total DDTs, and total PCBs (from Aroclor 1254) exceeded ERL values, while no constituents exceeded ERM values. Analysis of individual core segments showed generally higher levels of metals contaminants compared to the composite sample with most cores exceeding the ERL values for arsenic, copper, mercury, and nickel and one core sample slightly exceeding the ERL value for zinc. In some cases, DDE, total DDTs, and total PCBs were also relatively higher in the individual core samples with three core samples exceeding the ERM value for DDE and four core samples exceeding the ERM value for total PCBs.
With a few exceptions, the top sample from Site 4 is relatively similar to the sediments below. The top sample contained DDE and total PCB concentrations that were above ERM values while the sediments below only exceeded ERL values for those constituents. PAH compounds were generally low in both the top and bottom samples except for anthracene and Dibenzo(a,h)anthracene, which slightly exceeded ERL values in the top sample but not in the bottom sample.

Total speciated butyltins (as dibutyltin, monobutyltin, tributyltin and tetrabutyltin) were detected in the Berths 125-126 composite sample at a concentration of 54.5 ug/kg. Butyltin concentrations in individual cores ranged from below the detection limit (Site 1) to 148 ug/kg (Site 4 top). Sediment quality guidelines do not exist for speciated butyltins.

When comparing the Berths 125-126 composite sediment results with the reference sites, the LA2 reference site showed similar levels of nutrients, metals, butyltins, and organic pollutants and the Pier 400 reference site showed relatively higher levels of metals and DDTs.

6.3.2 Elutriate Chemistry

Results of the chemical analysis of both standard and effluent elutriate from the Berths 125-126 sediment composite are shown in Table 17.

Dissolved metals concentrations in both the standard and effluent elutriates from Berths 125-126 were below "chronic" (CCC) screening criteria, and they were very similar to background water concentrations.

Tributyltin concentrations exceeded the CCC criterion by a factor of 5 in the effluent elutriate and by a factor of 24 in the standard elutriate from Berths 125-126, while the background water sample exceeded the CCC criterion by a factor of seven.

Except for very low concentrations of pyrene, none of the organic contaminants were detected in either elutriate from Berths 125-126, and all organic compounds were undetected in the background water sample.

6.3.3 Toxicity Testing

Water column (suspended particulate phase) bioassay results for Berths 125-126 sediments (Table 23) indicate no significant toxicity to *Americamysis* or *Menidia* (LC50=>100%) and minor toxicity to *Mytilus* (LC50= 70.9%, EC50 =69%). Initial mixing calculations show that the LPC ***would not*** be exceeded by unconfined aquatic disposal of the sediments.

Benthic (solid phase) bioassay results for the Berths 125-126 sediment composite are summarized in Table 23. The results indicate that worm (*Nephtys*) survival in these sediments (90%) was not

statistically significantly lower than survival in reference sediments from LA2 (98%) or from Pier 400 (94%). Worm survival in control sediment was 98%. Amphipod *(Ampelisca*) survival in Berth Berths 125-126 sediments (72%) was significantly lower than survival in LA2 reference sediments (92%) and in Pier 400 reference sediments (91%). The difference between survival in test and reference sediments was not greater than 20%, meaning that the LPC ***would* not** be exceeded for open water disposal.

6.3.4 Bioaccumulation Assessment

Nereis viriens

Analysis of worm (*Nereis*) tissues after exposure to the Berths 125-126 sediment composite revealed that the mean concentration of only one metal was statistically significantly higher than either of the reference tissue mean concentrations (Table 24). Specifically, the mean tissue concentration of lead was 1.5 times higher than the mean lead concentration in worms exposed to the LA2 reference sediment.

Of the organic compounds, total PCBs and one PAH compound were statistically significantly elevated in worm tissue after exposure to Berths 125-126 sediments (Table 24). The Berths 125-126 worm tissue had a mean concentration of total PCBs that was about 4 times higher than both reference tissue mean concentrations and a mean concentration of pyrene that was 11.7 times higher than both reference tissue mean concentrations. Note that for statistical evaluation, analytes undetected in the tissues were equivalent to 50% of the detection limit.

Macoma nasuta

Analysis of clam (*Macoma*) tissues after exposure to the Berths 125-126 sediment composite revealed that the mean concentration of only one metal was statistically significantly higher than either of the reference tissue mean concentrations (Table 25). Specifically, the mean tissue concentration of zinc was 1.2 times higher than the mean zinc concentration in clams exposed to the LA2 reference sediment.

Several of the organic compounds in clam tissues exposed to the Berths 125-126 sediment composite were statistically significantly elevated over reference tissue levels (Table 25). Total PCBs were 30 times higher and 11.9 times higher compared to the LA2 and Pier 400 reference tissues, respectively. There were also five PAH compounds (benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, fluoranthene, and pyrene) plus total PAHs that were significantly elevated in the test tissues compared to both reference tissue samples. Except for benzo(a)pyrene (33.5 ug/kg) in the Pier 400 tissues, all five compounds were undetected in the reference tissues. This resulted in tissue burdens for these compounds that ranged from 5 (benzo(a)anthracene) to 47 (pyrene) times higher than reference tissues. Note that for statistical evaluation, analytes undetected in the tissues were equivalent to 50% of the detection limit

6.4 Berths 127-131 Maintenance Dredging and Future Deepening.

Five sediment core samples were collected from Berths 127-131 as illustrated in Figure 5. A top and bottom composite sample was generated from this berth area. The top composite sample represents the sediments from the mudline elevation down to the maintenance dredging depth (including overdredge) of –47 ft MLLW, while the bottom composite sample represents the sediments from –47 ft MLLW to the future deepening project depth of –55 ft MLLW. Note in Figure 5 that only a portion of the maintenance dredging area is proposed for future deepening.

In addition to bulk sediment and elutriate analyses, bioassays and bioaccumulation exposures were performed on each of the composite samples. Bulk sediment chemistry and physical testing were also performed on one or two strata from each of the individual core samples.

6.4.1 Bulk sediment chemistry

The composite samples from Berths 127-131 consisted primarily of sand. The sand, silt and clay fraction for the top composite sample was 69.9%, 15.0%, and 15%, respectively. The sand, silt and clay fraction for the bottom composite sample was 88.5%, 6.1%, and 5.5%, respectively. In comparison, the LA2 and Pier 400 reference sites consisted of 81.6% and 23.2% sand, respectively.

The composite samples from Berths 127-131 showed relatively low concentrations (below effects levels) of most inorganic and organic constituents, with the top composite having slightly higher concentrations for a lot of constituents (Table 10). The top composite exceeded ERL values for copper and mercury but the bottom composite did not. Both composites exceeded the ERL values for DDE and total DDTs with levels about two times higher in the top composite. The top composite exceeded ERM values for Aroclor 1254 and total PCBs while the bottom composite exceeded ERL values for the same two constituents. Semivolatile concentrations were all below ERL values in both composites.

Analysis of individual core segments showed generally higher levels of metal contaminants compared to the composite samples in three of the five top core samples and one of the bottom core samples. Between six and eight metals exceeded ERL values in the worst three top core samples while only copper exceeded the ERL value in another top core sample and no metals exceeded ERL values in the fifth top core sample. For the three bottom core samples, copper, mercury, and nickel exceeded ERL values in one of the core samples with no exceedances occurring in the other two core samples.

The same three top core samples and single bottom core sample with higher metals also had higher levels of DDE, total DDTs, Aroclor 1254, and total PCBs when compared to the composite samples. PAHs were also somewhat higher in the three top core samples.

Total speciated butyltins (as dibutyltin, monobutyltin, tributyltin and tetrabutyltin) were detected in the Berths 127-131 composite samples at concentrations of 122 ug/kg for the top composite sample and 15.2 ug/kg for the bottom composite sample. Butyltin concentrations in individual cores ranged from below the detection limit (Site 4 bottom) to 184ug/kg (Site 3 top). Sediment quality guidelines do not exist for speciated butyltins.

When comparing the Berths 127-131 composite sediment results with the reference sites, the LA2 reference site showed somewhat similar levels of nutrients, metals, and organic pollutants except for PCBs when compared to the top composite sample. LA2 oil and grease, TPH, and PCBs were lower than in the top composite sample. The Pier 400 reference sediments showed relatively higher levels of metals and DDTs compared to both composite samples, a relatively lower concentration of total PCBs when compared to the top composite sample, and a relatively higher concentration of oil and grease when compared to the bottom composite sample. Pier 400 nutrients were similar to both composite samples. Concentrations of semivolatile compounds were somewhat similar in both composite samples and both reference site samples, although, PAH compounds were slightly elevated but below ERL values in the top composite sample.

6.4.2 Elutriate Chemistry

Results of the chemical analysis of both standard and effluent elutriate from the two Berths 127-131 composite samples are shown in Table 18.

Standard and effluent elutriate dissolved metal concentrations from Berths 127-131 were below "chronic" (CCC) screening criteria in both the bottom and top composite samples. Except for arsenic in the standard elutriate of the top composite sample, metal concentrations in the elutriates (total and dissolved) were similar to background water concentrations. Total and dissolved arsenic were approximately eight times higher in the top standard elutriate sample compared to background water, though still below the CCC criteria.

Tributyltin concentrations exceeded the CCC criterion in all Berths 127-131 elutriate samples and in the background water sample with the top composite elutriates containing the highest concentrations. The bottom composite elutriates were similar to the background waters in tributyltin content, while the top standard elutriate tributyltin concentration was nine times higher than the background concentration and top effluent elutriate was four times higher.

Except for the top standard elutriate, no organic contaminants were detected in the elutriate samples from Berths 127-131 and in the background water sample. The top standard elutriate did have slight detections of total DDT, total PCBs, and pyrene, with the concentration of total PCBs exceeding the CCC value. Note though the CCC value for total PCBs is below the project detection limit.

6.4.3 Toxicity Testing

Water column (suspended particulate phase) bioassay results show no significant toxicity to either *Americamysis*, *Menidia* , or to *Mytilus* (LC50=>100%, EC50=>100%) for either the top or bottom composite from Berths 127-131.

Benthic (solid phase) bioassay results for the Berths 127-131 sediment composites are summarized in Table 23. For both the top and bottom composite, worm (*Nephtys*) survival was 100%. Thus, survival in the test sediments was not statistically significantly lower than survival in reference sediments from LA2 (98%) or from Pier 400 (94%). Worm survival in control sediment was 98%. Amphipod *(Ampelisca*) survival in the Berths 127-131 top composite (51%) was statistically significantly lower than survival in LA2 reference sediments (92%) and in Pier 400 reference sediments (91%). The difference between survival in test and reference sediments was greater than 20%, meaning that the LPC ***would*** be exceeded for open water disposal. Amphipod survival in the Berths 127-131 deep sediments (79%) was not significantly lower than survival in LA2 reference sediment (92%) and in Pier 400 reference sediment (91%).

6.4.4 Bioaccumulation Assessment

Nereis viriens

Analysis of worm (*Nereis*) tissues after exposure to the Berths 127-131 sediment composites revealed that the mean concentration of only one metal in tissues from the top composite was statistically significantly higher than either of the reference tissue mean concentrations (Table 24). No metals were significantly elevated in the deep composite tissues. The mean tissue concentration of lead from the top composite was 1.9 times higher than the mean lead

concentration in worms exposed to the LA2 reference sediment and 1.7 times higher than Pier 400 reference worms.

Of the organic compounds, only total PCBs were statistically significantly elevated in worm tissue after exposure to the Berths 127-131 top sediments (Table 24). No organic compounds were statistically significantly elevated in worms exposed to the deep composite. The top composite worm tissue had a mean concentration of total PCBs that was 3.3 times higher than both reference tissue mean concentrations. Note that for statistical evaluation, analytes undetected in the tissues were equivalent to 50% of the detection limit.

Macoma nasuta

Analysis of clam (*Macoma*) tissues after exposure to the Berths 127-131 sediment composites revealed that the mean concentration of three metals (copper, lead, and zinc) were statistically significantly higher in the top composite and only one metal (zinc) was significantly higher in the deep composite when compared to both reference tissue mean concentrations (Table 25). In the top composite clam tissues, the mean copper concentration was 1.35 times higher than the LA2 reference clam tissues, and the mean concentration of lead was 4.4 times higher and zinc was 1.26 times higher than the LA2 reference clam tissues. In the bottom composite, the mean tissue concentration of zinc was 1.23 times higher than the mean zinc concentration in clams exposed to the LA2 reference sediment.

For both Berths 127-131 composites, PCBs and several PAHs were statistically significantly elevated in the clam tissues compared to both sets of reference clam tissues (Table 25). For the top composite, total PCBs in the clam tissues were 29 times higher and 11.5 times higher than LA2 and Pier 400 reference tissues, respectively. For the bottom composite, total PCBs in the clam tissues were 13.2 times higher compared to LA2 reference tissues, and 5.2 times higher compared to Pier 400 reference tissues. There were four individual PAH compounds (benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, and pyrene) in top composite clam tissues and two PAH compounds (benzo(b)fluoranthene and benzo(a)pyrene) that were statistically significantly elevated in the bottom composite clam tissues compared to both reference tissue samples. Except for benzo(a)pyrene (33.5 ug/kg) in the Pier 400 tissues, all five compounds were undetected in the reference tissues. Pyrene was most significantly elevated (48 times higher than reference) in the top composite clam tissues, and benzo(b)fluoranthene was most significantly elevated (19 times higher than reference) in the bottom composite clam tissues. Note that for statistical evaluation, analytes undetected in the tissues were equivalent to 50% of the detection limit.

6.5 Berths 153-155 Maintenance Dredging

Six core samples were collected from Berths 153-155 as illustrated in Figure 6. Each core represents dredge material from the mudline down to –39 ft MLLW. All six cores were combined into a single composite sample. Due to elevated levels of sediment contamination, 28-day bioaccumulation exposures and full bioassay testing were not performed on the Berths 153-155 composite sample. Instead, only bulk sediment and elutriate analyses and a single water column bioassay were conducted. Bulk sediment chemistry and physical testing were also performed on each of the individual core samples. Because lead exceeded the Title 22 STLC criterion, a wet extraction test (WET) for lead was performed on the sediment composite.

6.5.1 Bulk sediment chemistry

The composite sample from Berths 153-155 consisted primarily of fine grained material (31.3% silt and 27.1% clay) with a sand content of 41.6%. In comparison, the LA2 and Pier 400 reference sites consisted of 81.6% and 23.2% sand, respectively.

The composite sample from Berths 153-155 showed elevated levels of many inorganic and organic constituents (Table 11). However, all hazardous waste constituents were well below Title 22 TTLC criteria, and only lead exceeded Title 22 STLC criteria. Mercury, DDD, DDE, DDT, total DDTs, and pyrene exceeded ERM values, while arsenic, copper, lead, nickel, zinc, total PCBs, and several PAH compounds along with total PAHs exceeded ERL values. Analysis of individual core segments showed additional ERL exceedances for cadmium and chromium in a few of the cores, and several more ERM exceedances for individual PAH compounds in a few of the cores. Note that Aroclor 1260 was detected in the individual core samples at levels exceeding ERL and ERM values but not in the composite sample. This probably was a result of analyst interpretation of the Aroclor 1260 and Aroclor 1254 chromatogram peaks, which overlap each other considerably.

Total speciated butyltins (as dibutyltin, monobutyltin, tributyltin and tetrabutyltin) were detected in the Berths 153-155 composite sample at a concentration of 179 ug/kg. Butyltin concentrations in individual cores ranged from 70.5 ug/kg (Site 6) to 426 ug/kg (Site 4 top). Sediment quality guidelines do not exist for speciated butyltins.

When comparing the Berths 153-155 composite sediment results with the reference sites, the Pier 400 reference site showed similar levels of nutrients, most metals, and chlorinated pesticides, and lower levels of petroleum hydrocarbons, oil and grease, mercury, tributyltin, PCBs, and PAHs. Except for a few metals that were similar in concentration, sediment from the LA2 reference site was generally much lower in contaminant concentrations.

6.5.2 Elutriate Chemistry

Results of the chemical analysis of both standard and effluent elutriate from the Berths 153-155 sediment composite are shown in Table 19.

Except for dissolved arsenic in the standard elutriate, dissolved metal concentrations in both the standard and effluent elutriates from Berths 153-155 were below “chronic” (CCC) screening criteria. In addition, total and dissolved arsenic, total chromium, total copper, total nickel, and dissolved zinc in the standard elutriate were somewhat elevated above background waters. However, the dissolved zinc data is suspect since the dissolved fraction was around four times higher than the total fraction even though all quality control objectives were met. The dissolved metal concentrations in the effluent elutriate were fairly similar to background water concentrations.

Tributyltin concentrations exceeded the CCC criterion by a factor of four in the effluent elutriate and by a factor of 15 in the standard elutriate from Berths 153-155, while tributyltin concentrations in the background water sample were seven times higher than the CCC criterion.

Several organic compounds were detected in the standard elutriate from Berths 153-155, while only low levels of acenaphthylene and pyrene were detected in the effluent elutriate. Of the organic compounds found in the standard elutriate, only total PCBs exceeded CCC criteria. No organic compounds were detected in the background water sample.

6.5.3 DI-WET

Since lead exceeded the Title 22 STLC criterion in the Berths 153-155 sediment composite, a DI WET for lead was performed to determine if leached lead exceeds water quality criteria. A concentration of 1.8 ug/l was detected in the extractant, which is far below the STLC and CCC criteria.

6.5.4 Toxicity Testing

Initial examination of bulk sediment chemistry data strongly suggested that the Berths 153-155 sediment composite was contaminated with metals, pesticides, PCBs and PAHs at concentrations generally exceeding ERM values. Consequently, the decision was made to subject the Berths 153-155 sediment to only the limited bioassay testing required for disposal in an upland site or in a confined aquatic disposal facility. Only a single water column bioassay using *Mytilus galloprovincialis* was performed with this sediment sample. Minor toxicity was shown to *Mytilus* survival (LC50=73.8) and to *Mytilus* normal development (EC50=69.5%). Note that *Mytilus* survival and development was significantly decreased from controls only in the 100% elutriate, but not in the 50% elutriate concentration. This shows that a 1:1 dilution of elutriate would eliminate all toxicity to *Mytilus* larvae.

6.6 Berths 177-179 Maintenance Dredging

Five core samples were collected from Berths 177-179 sediments as illustrated in Figure 7. Each core represents dredge material from the mudline down to –38 ft MLLW. All five cores were combined into a single composite sample. Due to elevated levels of sediment contamination, 28-day bioaccumulation exposures and full bioassay testing were not performed on the Berths 177-179 composite sample. Instead, only bulk sediment and elutriate analyses and a single water column bioassay were conducted. Bulk sediment chemistry and physical testing were also performed on each of the individual core samples. Because lead exceeded the Title 22 STLC criterion, a wet extraction test (WET) for lead was performed on the sediment composite.

6.6.1 Bulk sediment chemistry

The composite sample from Berths 177-179 consisted primarily of fine grain material (32.8% silt and 25.0% clay) with a sand content of 42.2%. In comparison, the LA2 and Pier 400 reference sites consisted of 81.6% and 23.2% sand, respectively.

The composite sample from Berths 177-179 showed elevated levels of many inorganic and organic constituents (Table 12). However, all hazardous waste constituents were well below Title 22 TTLC criteria, and only lead exceeded Title 22 STLC criteria. Mercury, DDD, DDE, DDT, total DDTs, Aroclor 1254, total PCBs, and dibenzo(a,h)anthracene exceeded ERM values, while arsenic, cadmium, copper, lead, nickel, zinc, and several PAH compounds along with total PAHs exceeded ERL values. Analysis of individual core segments showed additional ERL exceedances for chromium in most cores, and several more ERM exceedances for nickel and individual PAH compounds in a few of the cores. Note that Aroclor 1260 was detected in the individual core samples at levels exceeding ERL and ERM values but not in the composite sample. This probably was a result of analyst interpretation of the Aroclor 1260 and Aroclor 1254 chromatogram peaks, which overlap each other considerably.

Total speciated butyltins (as dibutyltin, monobutyltin, tributyltin and tetrabutyltin) were detected in the Berths 177-179 composite sample at a concentration of 151 ug/kg. Butyltin concentrations

in individual cores ranged from 117 ug/kg (Site 5) to 688 ug/kg (Site 2). Sediment quality guidelines do not exist for speciated butyltins.

When comparing the Berths 177-179 composite sediment results with the reference sites, the Pier 400 reference site showed similar levels of most metals and DDE, and lower levels of petroleum hydrocarbons, oil and grease, mercury, tributyltin, chlorinated pesticides, PCBs, and PAHs. Except for selenium and silver that were similar in concentration, sediment from the LA2 reference site was generally much lower in contaminant concentrations.

6.6.2 Elutriate Chemistry

Results of the chemical analysis of both standard and effluent elutriate from the Berths 177-179 sediment composite are shown in Table 20.

Dissolved metal concentrations in both the standard and effluent elutriates from Berths 177-179 were below "chronic" (CCC) screening criteria. However, total and dissolved arsenic, total chromium, and total lead in the standard elutriate were somewhat elevated above background waters. Except for the dissolved zinc concentration, the dissolved metal concentrations in the effluent elutriate were fairly similar to background water concentrations. Dissolved zinc was approximately two times higher in the effluent elutriate.

Tributyltin concentrations exceeded the CCC criterion by a factor of two in the effluent elutriate and by a factor of 80 in the standard elutriate from Berths 177-179, while tributyltin concentrations in the background water sample were seven times higher than the CCC criterion. Tributyltin concentrations in both elutriates were well below the "acute" (CMC) criterion.

Organic contamination was for the most part absent in the standard and effluent elutriates from Berths 177-179. Low levels of fluoranthene and pyrene were detected in both elutriates, and benzo(a)pyrene was detected in the standard elutriate at concentration slightly higher than the detection limit. No organic compounds were detected in the background water sample.

6.6.3 DI-WET

Since lead exceeded the Title 22 STLC criterion in the Berths 177-179 sediment composite, a DI WET for lead was performed to determine if leached lead exceeds water quality criteria. Dissolved lead was not detected in the extractant above the reporting limit of 1.0 ug/l.

6.6.4 Toxicity Testing

Initial examination of bulk sediment chemistry data strongly suggested that the Berths 177-179 sediment composite was contaminated with metals, pesticides, PCBs and PAHs at concentrations generally exceeding ERM values. Consequently, the decision was made to subject the Berths 177-179 sediment to only the limited bioassay testing required for disposal in an upland site or in a confined aquatic disposal facility. Only a single water column bioassay using *Mytilus galloprovincialis* was performed with this sediment sample. No toxicity was shown to *Mytilus* survival (LC50=>100%) or to *Mytilus* normal development (EC50=>100%).

6.7 Berths 180-181 Maintenance Dredging

Five core samples were collected from Berths 180-181 sediments as illustrated in Figure 8. Each core represents dredge material from the mudline down to –37 ft MLLW. All five cores were

combined into a single composite sample. Due to elevated levels of sediment contamination, 28-day bioaccumulation exposures and full bioassay testing were not performed on the Berths 180-181 composite sample. Instead, only bulk sediment and elutriate analyses and a single water column bioassay were conducted. Bulk sediment chemistry and physical testing were also performed on each of the individual core samples. Because lead exceeded the Title 22 STLC criterion, a wet extraction test (WET) for lead was performed on the sediment composite.

6.7.1 Bulk sediment chemistry

The composite sample from Berths 180-181 consisted primarily of fine grained material (32.1% silt and 30.8% clay) with a sand content of 37.1%. In comparison, the LA2 and Pier 400 reference sites consisted of 81.6% and 23.2% sand, respectively.

The composite sample from Berths 180-181 showed elevated levels of many inorganic and organic constituents (Table 13). However, all hazardous waste constituents were well below Title 22 TTLC criteria, and only lead exceeded Title 22 STLC criteria. Lead, mercury, nickel, zinc, DDD, DDE, total DDTs, Aroclor 1254, total PCBs, benzo(a)pyrene, and dibenzo(a,h)anthracene exceeded ERM values, while arsenic, cadmium, chromium, copper, and several other PAH compounds along with total PAHs exceeded ERL values. The composite chemistry was similar to the individual core segment chemistry. Note that Aroclor 1260 was detected in the individual core samples at levels exceeding ERL and ERM values but not in the composite sample. This probably was a result of analyst interpretation of the Aroclor 1260 and Aroclor 1254 chromatogram peaks, which overlap each other considerably.

Total speciated butyltins (as dibutyltin, monobutyltin, tributyltin and tetrabutyltin) were detected in the Berths 180-181 composite sample at a concentration of 218 ug/kg. Butyltin concentrations in individual cores ranged from 205 ug/kg (Site 2) to 466 ug/kg (Site 1). Sediment quality guidelines do not exist for speciated butyltins.

When comparing the Berths 180-181 composite sediment results with the reference sites, analyte concentrations were lower in the reference sediments for most constituents. The few exceptions were arsenic, DDE, and total DDTs in the Pier 400 sediment, which were similar in concentrations.

6.7.2 Elutriate Chemistry

Results of the chemical analysis of both standard and effluent elutriate from the Berths 180-181 sediment composite are shown in Table 21.

Dissolved metal concentrations in both the standard and effluent elutriates from Berths 180-181 were below “chronic” (CCC) screening criteria. However, total and dissolved arsenic and chromium and total lead and nickel in the standard elutriate were somewhat elevated above background waters. Except for the dissolved zinc concentration, the dissolved metal concentrations in the effluent elutriate were fairly similar to background water concentrations. Dissolved zinc was approximately two times higher in the effluent elutriate.

Tributyltin concentrations were similar to the CCC criterion in both the effluent and standard elutriates from Berths 180-181. Tributyltin concentrations in the background water sample were seven times higher than the CCC criterion.

Organic contamination was for the most part absent in the standard and effluent elutriates from Berths 180-181. A few PAHs were detected in both elutriates at levels one to three times the detection limits. No organic compounds were detected in the background water sample.

6.7.3 WET Testing

Since lead exceeded the Title 22 STLC criterion in the Berths 177-179 sediment composite, a DI WET for lead was performed to determine if leached lead exceeds water quality criteria. Dissolved lead was not detected in the extractant above the reporting limit of 1.0 ug/l.

6.7.4 Water Column Bioassay

Initial examination of bulk sediment chemistry data strongly suggested that this sediment composite was contaminated with metals, pesticides, PCBs and PAHs at concentrations generally exceeding ERM values. Consequently, the decision was made to subject the Berths 180-181 sediment to only the limited bioassay testing required for disposal in an upland site or in a confined aquatic disposal facility. Only a single water column bioassay using *Mytilus galloprovincialis* was performed with this sediment sample. No toxicity was shown to *Mytilus* survival (LC50=>100%) and to *Mytilus* normal development (EC50=>100%).

6.8 Berths 226-231 Maintenance Dredging

Fifteen core samples were collected from Berths 226-231 sediments as illustrated in Figures 9 through 11. Each core represents dredge material from the mudline down to –48 ft MLLW. The fifteen core samples were combined into three composite samples (Composite A, B and C) containing five cores each. In addition to bulk sediment and elutriate analyses, bioassays and bioaccumulation exposures were performed on each of the composite samples. Bulk sediment chemistry and physical testing were also performed on each of the individual core samples.

6.8.1 Bulk sediment chemistry

The three sediment composite samples from Berths 226-231 consist primarily of sand (47-80%), with lesser amounts of silt (11-31%) and clay (9-22%). In comparison, the LA2 and Pier 400 reference sites consisted of 81.6% and 23.2% sand, respectively.

Among metal analytes, ERL guidelines were exceeded for copper, lead, mercury and nickel in composite A, and for copper and mercury in composite C. Individual cores from the A and C composite areas all showed copper and mercury concentrations that were greater than ERL guidelines. Core samples A-2 and C-2 showed the highest concentrations of metal contaminants, with ERL exceedances of five or six metals. No metals exceeded any ERL value in composite B, and only one individual core from Composite B exceeded the ERL values for copper and mercury. Metal concentrations in all samples were well below ERM values. All metal concentrations were far below Title 22 TTLC criteria.

Among the chlorinated pesticides, DDE was detected in concentrations above the ERM value in composites A and C, and in nine of the ten individual cores comprising those composites. DDE exceeded the ERL value in composite B and exceeded either the ERL or ERM values in four of five individual core samples. DDE was the primary DDT compound detected in the samples. The ERM value for total DDTs was exceeded in Composite A and in six of the fifteen individual

core samples. All remaining samples contained total DDTs in excess of the ERL value. There were a few additional chlorinated pesticides detected at very low concentrations, near their method detection limits. All DDT concentrations were far below Title 22 TTLC criteria.

One PCB, Aroclor 1254, exceeded the ERL value in Composites A and C. The ERL value for Aroclor-1254 was also exceeded in all of the individual core samples from Composite Area A and in four of the five individual core samples from Composite Area C. Although PCBs were not detected in the Composite B sample, two of the five individual core samples from Composite Area B exceeded the ERL for Aroclor 1254. No samples contained PCB concentrations approaching ERM values, and all PCB concentrations were far below Title 22 TTLC criteria.

Among the semivolatile compounds, fluorene slightly exceeded the ERL value in all three composite samples, but concentrations were well below the ERM value. None of the remaining PAH compounds exceeded ERL values in any of the composite samples. However, one individual core sample (A-5) exceeded ERL values for seven of the eleven individual PAH compounds for which guideline values exist. Core sample A-5 also exceeded the ERL value for total PAHs.

Total speciated butyltins (as dibutyltin, monobutyltin, tributyltin and tetrabutyltin) were detected in the composites in concentrations ranging from 36 to 132 ug/kg. Butyltin concentrations in individual cores ranged from 3.3 ug/kg (core B-4) to 393 ug/kg (core A-4). Sediment quality guidelines do not exist for speciated butyltins.

When comparing the Berths 226-231 composite sediment results with the reference sites, Composite B was more chemically similar to the LA2 reference site, while composites A and C were more similar to the Pier 400 reference site. The exceptions to this were for oil and grease, some nutrients, speciated butyltins, and semivolatile compounds, which were generally higher in the composite samples than in the reference site samples.

6.8.2 Elutriate Chemistry

Results of the chemical analysis of both standard and effluent elutriate from the Berths 226-231 composite samples are shown in Table 22.

Standard and effluent elutriate dissolved metal concentrations from Berths 226-231 were below "chronic" (CCC) screening criteria in all three composite samples. Except for total and dissolved arsenic and dissolved zinc in the standard elutriate of the Composite A sample, metal concentrations (total and dissolved) in the elutriates were similar to background water concentrations. Total and dissolve arsenic were more than ten times higher in the Composite A standard elutriate sample compared to background water, and dissolved zinc was about four times higher. However, the dissolved zinc data is suspect since the dissolved fraction was more than four times higher than the total fraction even though all quality control objectives were met.

Tributyltin concentrations exceeded the CCC criterion in the Berths 226-231 Composite A and B standard elutriate samples by a factor of 6 and 24, respectively. A low concentration (four times higher than the CCC criterion) was also found in the background water sample. Tributyltin was not detected in any other sample and no other speciated butyltins were detected in any of the Berths 226-231 elutriate samples.

Except for low concentrations of DDE and a few PAH compounds in some of the composite samples, no organic compounds were detected in the elutriates from Berths 226-231. Similarly, no organic compounds were detected in the background water sample.

6.8.3 Toxicity Testing

Water column (suspended particulate phase) bioassay results for Composite A sediments from Berths 226-231 (Table 23) indicate no significant toxicity to *Americamysis* or *Menidia* (LC50=>100%) and minor toxicity to *Mytilus* (LC50= 71.1%, EC50 =71.9%). Initial mixing calculations show that the LPC ***would not*** be exceeded by unconfined aquatic disposal of the Composite A sediments. Water column bioassay results for Composites B and C indicated no significant toxicity to either *Americamysis*, *Menidia* or *Mytilus* (LC50 and EC50 for all three species=>100%).

Benthic (solid phase) bioassay results for the three composite sediments from Berths 226-231 are summarized in Table 23. *Nephtys* survival was 100% in both Composites A and B and 96% in Composite C. Thus, survival in the composite sediments was not statistically significantly lower than survival in reference sediments from LA2 (98%) or from Pier 400 (94%). *Nephtys* survival in control sediment was 98%. *Ampelisca* survival in the three composites, which ranged from 78% to 84%, was not significantly lower than survival in LA2 reference sediments (92%) and in Pier 400 reference sediments (91%).

6.8.4 Bioaccumulation Assessment

Nereis viriens

When compared with either LA2 or Pier 400 reference tissues, there was no significant accumulation of metals, chlorinated pesticides, PCBs or PAHs in worm (*Nereis*) tissues from any of the three composite samples exposed to Berths 226-231 sediments see (Table 24)

Macoma nausta

Concentrations of metals in clam (*Macoma*) tissues exposed to the three Berths 226-231 sediment composite samples were similar, especially among Composites A and C (Table 25). The mean concentrations of both copper and zinc in clams from Composites A and C were statistically significantly higher (but less than two times) than the mean concentration of copper and zinc in clams exposed to LA2 reference sediments. There was no significant accumulation of metals in Composite B clam tissues.

Presence of organic compounds in clam tissues exposed to the Berths 226-231 sediment composites was also similar among composites (Table 25). Clam tissues from all three composites had statistically significantly elevated concentrations of DDE, total PCBs (Aroclor 1254), three PAH compounds benzo(b)fluoranthene, benzo(a)pyrene, and pyrene, and total PAHs compared to either the LA2 reference tissues or both LA2 and Pier 400 reference tissues. Tissue burdens for DDE ranged from 1.3 to 1.5 times higher than the LA2 reference tissues. Total PCBs were two to seven times higher in the composite tissues compared to both reference tissues, and the PAH compounds were anywhere from 5.5 times higher for total PAHs in Composite A tissues to 33 times higher for pyrene in Composite B tissues compared to both reference sites. Note that for statistical evaluation, analytes undetected in the tissues were equivalent to 50% of the detection limit.

7.0 CONCLUSIONS, AND RECOMMENDATIONS

Each berth area or composite area sampled for maintenance dredging or future deepening is a candidate for one or more disposal options including ocean disposal, in-harbor unconfined aquatic disposal, in-harbor confined aquatic disposal, and disposal at an upland facility. Based on the evaluation of all data, initial categories of suitability for reuse/disposal of the tested sediments are given in Table 26. This table also summarizes the data leading to a particular conclusion or recommendation. Final determinations of suitabilities of these sediments for given categories of reuse/disposal will be made by regulatory agencies and matched to options available to the Port for these maintenance dredging sediments.

To obtain these initial categories of suitability for reuse/disposal for each of the maintenance dredging sediments tested, the sediment testing results were evaluated. Contaminants of concern were found in all composites at concentrations in excess of ERL and/or ERM sediment guidance values. Decisions were made not to further test sediments for open water disposal from Berths 36, 153-155, 165-167, 177-179, and 180-181 because of generally high concentrations of multiple contaminants of concern.

Sediments from most of the other berth areas that were further tested showed fairly substantial bioaccumulation of PCBs and PAHs that would seem to preclude open water disposal as an option, though toxicity of tested sediments generally did not exceed Limiting Permissible Concentrations (LPCs). Only the future maintenance dredging sediments from Berths 122-124 were judged suitable for ocean disposal at LA2 or at an in-harbor unconfined aquatic disposal facility based on the lack of or minor toxicity, low levels of observed bioaccumulation, and the lack of a significant potential to impact water quality.

The lack of toxicity exceeding LPCs and minimal contamination found in elutriate samples should allow the sediments from all berth areas to be suitable for placement at an in-harbor confined aquatic disposal facility. Because all analytes from all samples were below Title 22 criteria and very little contaminant leaching occurred, the sediment from all berth areas should also be acceptable for upland disposal.

Because the bioaccumulation results, mainly with clams, determined the reuse/disposal categories of many of the sediments to be dredged, the bioaccumulation results were also evaluated using the USACE Biota/Sediment Accumulation Factors (BSAFs) database for *Macoma nausta* (http://www.wes.army.mil/el/bsaf/bsaf.html) to see if the nonpolar organic tissue concentrations measured were within expected ranges for given sediment concentrations. Data were also compared to the USACE/USEPA Environmental Residue Effects Database (ERED) (http://www.wes.army.mil/ el.ered) to assess if toxicity results were consistent with the tissue burdens measured.

To make comparisons with the BSAF database, Accumulation Factors (AFs) were calculated and compared directly to the BSAF database. AFs and BSAFs are the ratio of sediment concentrations normalized to the total organic carbon content of the sediment and tissue concentrations normalized to the percent lipid fraction. Table 27 summarizes these comparisons for *Macoma nasuta*. With a few exceptions, most of them minor, the *Macoma nausta* AFs calculated for this program fall within the range of BSAFs found in the Corps of Engineers database for *Macoma nasuta*. Therefore, the substantially elevated levels of organic compounds found in the *Macoma* tissues are reliable estimates and were not found to be abnormally high.

To see if the toxicity results were generally consistent with the tissue burdens measured in the longer-term (28 day) bioaccumulation tests and to put this bioaccumulation in a better perspective, there are some generalizations that can be made, as follows:

- Accumulation of copper and zinc by both clams and worms was minor in magnitude, although statistically significant. Incremental increases in concentration over LA2 reference tissue were less than 1.5 times in all tissues, and absolute tissue concentrations were well below the lowest No Observable Effects Concentration (NOEC) values for survival (25 mg/kg copper for *Macoma balthica*, 279 mg/kg zinc for *Mytilus edulis*) reported in the ERED database.

- Accumulation of lead was slightly greater in magnitude, with a peak increment over LA2 reference tissue of 4.4 times in clams exposed to Berths 127-131 top sediment. Increments in all other tissues were less than 2 times. The lowest NOEC reported in ERED for lead was 11.4 mg/kg (for growth in *Crassostrea gigas*), well above the highest tissue value found in this study (8.4 mg/kg in Berth 127-131 top clams).

- DDE accumulated in clams exposed to several test sediments but only to a minor degree, showing increments over LA2 reference tissue of 1.5 or less. The highest reported tissue value in this study was 134 ug/kg. The lowest reported invertebrate NOEC for DDE in ERED was 20,000 ug/kg for development in *Chironomous tentans*. The lowest reported NOEC for DDE in ERED was approximately 1500 ug/kg for mortality in *Salvelinus namaycush.*

- DDT accumulated in Berths 90-92 and 93A-93B clams to an increment of 7.6 times over both reference clam tissues. This increment is misleading because DDT was not detected in any reference tissue, and the statistical comparison was made against 50% of the detection limit. Furthermore, the DDT tissue concentration found (30.2 ug/kg) was far below the lowest NOEC reported in ERED (620 ug/kg) for feeding behavior in *Mercenaria mercenaria*.

- PCBs (as Aroclor 1254) were statistically significantly accumulated by clams from virtually all sediment composites tested, and by worms from three sediment composites. The magnitude of the accumulation was often large, ranging from increments of 5.6 to 30 times over LA2 reference tissues and increments of 2.2 to 12 times over Pier 400 reference tissues. Aroclor 1254 was not detected in LA2 tissues, thus the comparison was made with 50% of the detection limit. Aroclor 1254 was detected in one replicate of Pier 400 tissue, allowing comparison with a higher basis. The highest increments over reference tissues were found in clams exposed to sediments from Berths122-124 (17.9 times/7.1times over LA2 and Pier 400), Berths125-126 (30 times/12 times), and the top of Berths 127-131 (29 times/11.5 times). Even the maximum tissue value reported in this study (610 ug/kg) was far below the lowest NOEC reported in EPA (2000) for a mollusk (13,800 ug/kg for burrowing behavior in *Macoma nasuta*).

- Some individual PAHs showed statistically significant accumulation by clams from each of the sediments tested and by worms only from the Berths 90-92 and 93A-93B sediments. The magnitude of the accumulation of individual PAHs was often very large, with increments over reference tissues as high as 400 times for pyrene in *Macoma* and 100 times for pyrene in *Nereis.* Berths 90-92 and 93A-93B sediments produced significant accumulation of 9 individual PAHs by clams, with increments over reference tissues

ranging from 4.4 times (anthracene) to 400 times (pyrene). Berths 90-92 and 93A-93B sediments also produced significant accumulation of 6 individual PAHs by worms, with increments ranging from 8.6 times (Bernzo(a)pyrene) to 99 times (pyrene). Sediments from Berths 125-126 produced accumulation by clams of 5 individual PAHs with incremental increases between 5 times (Benzo(a)anthracene) and 47 times (pyrene). Berths 127-131 sediments produced accumulation of 4 individual PAHs with increments of 29 times (benzo(k)fluoranthene) to 48 times (pyrene) over reference tissues. Sediments from the remaining berths produced accumulation of 2 two or three PAH compounds, with incremental increases ranging from 2.2 times to 33 times.

- Pyrene was the PAH compound that was most often accumulated by clams. Total PAHs were statistically significantly elevated in tissues exposed to all test sediments. The incidence of statistical significance was somewhat influenced by the absence of detectable PAHs in both tissues, so that comparisons were made using reference tissue values equal to 50% of detection limit. The large incremental increases, however, suggest that this was not a major factor. Despite the very large incremental increases over reference tissues, the absolute tissue concentrations were generally much below the NOEC levels reported in ERED, with a few exceptions.

- The highest tissue concentration of any individual PAH was 8400 ug/kg of pyrene in clams exposed to Berths 90-92 and 93A-93B sediments. The lowest NOEC reported in ERED for pyrene was 5400 ug/kg, for survival in *Dreissena polymorpha*, a freshwater mussel. Clearly this high concentration of tissue pyrene might be expected to produce biological effects in mollusks.

- ERED reports a NOEC of 10 ug/kg of benzo(a)pyrene for feeding behavior in *Mercenaria mercenaria*. The next lowest NOEC for benzo(a)pyrene in a mollusk is 1500 ug/kg for reproduction in *Mytilus edulis*, which seems more in line with reported NOECs for other PAHs. Tissue concentrations of benzo(a)pyrene in this study ranged from 144 to 2480 ug/kg, exceeding the 10ug/kg NOEC in all test tissues, but exceeding the 1500 ug/kg NOEC only in clams exposed to sediments from Berths 90-92 and 93A-93B.

- Using the critical Body Residue approach for non-polar narcosis developed by McCarty and Mackay (1993), measured tissue concentrations of total PAHs were converted to molar equivalents and then compared to the effects range reported for chronic narcosis. The measured tissue residue for total PAHs in clams exposed to Berths 90-92 and 93A-93B sediments was 0.011 mmol/kg, well below the levels found to cause toxicity (0.2 to 0.8 mmol/kg). In other words, with the exception of pyrene and benzo(a)pyrene in clams exposed to Berths 90-92 and 93A-93B sediments, tissue residue values in study organisms were below reported biological effects levels.

To summarize, with few exceptions, mostly minor, and within the expected limitations of these generalized databases, the results of these bioaccumulation tests fall within the range of predicted BSAFs values and the toxicity results are generally as expected from the Residue Effects Database.

8.0 REFERENCES CITED

AMEC Earth and Environmental, Inc. 2001a. Final Report. Cabrillo Beach Yacht Club (Berth 36) Sediment Characterization Study; Port of Los Angeles, Los Angeles, California. Prepared for the Port of Los Angeles Environmental Management Division. October 2001.

AMEC Earth and Environmental, Inc. 2001b. Final Report. Berth 121 Wharf Extension and Berths 122-124 Maintenance Dredging Sediment Characterization Study; Port of Los Angeles, Los Angeles, California. Prepared for the Port of Los Angeles Environmental Management Division. March 2001.

AMEC Earth and Environmental, Inc. 2001c. Final Report. Berth 240B Maintenance Dredging Sediment Characterization Study; Port of Los Angeles, Los Angeles, California. Prepared for the Port of Los Angeles Environmental Management Division. March 2001.

ASTM. 1998. Standard Guide for Conducting Acute Toxicity Tests Starting with Embryos of Four Species of Saltwater Bivalve Mollusks. Method: E 724-98. In: Annual Book of ASTM Standards, Volume 11.04. American Society for Testing and Materials, Philadelphia, PA.

ASTM. 1999a. Standard Guide for Conducting 10-day Static Sediment Toxicity Tests with Marine and Estuarine Amphipods. Method E1367-94. In: Annual Book of ASTM Standards, Volume 11.05. American Society for Testing and Materials, Philadelphia, PA.

ASTM. 1999b. Standard Guide for Conducting Sediment Toxicity Tests with Marine and Estuarine Polychaetous Annelids. Method E1611-94. In: Annual Book of ASTM Standards, Volume 11.05. American Society for Testing and Materials, Philadelphia, PA.

CCR Title 22 Division 4.5 Environmental Health Standards for the Management of Hazardous Waste Chapter 11. Identification and Listing of Hazardous Waste Article 3. Characteristics of Hazardous Waste §66261.24 Characteristics of Toxicity.

Kinnetic Laboratories/ToxScan, Inc. 2002. Sampling and Testing Report: Dredge Material Evaluation Maintenance Dredging Berths 165-166 U.S. Borax, Inc. Prepared for U.S. Borax, Inc. August 2002.

Kinnetic Laboratories/ToxScan, Inc. 2003. Dredge Material Evaluation for Berths 226-231 Evergreen Terminal, Port of Los Angeles. Prepared for Port of Los Angeles, San Pedro, CA. 28 April 2003.

Long, E.R., D.D. MacDonald, S.I. Smith, and F.D. Calder. 1995. Incidence of Adverse Biological Effects Within the ranges of Chemical Concentrations in marine and Estuarine Sediments. Environmental Management, Vol. 19:81-97.

McCarty, L.S. and D. Mackay. 1993. Enhancing Ecotoxicological Modeling and Assessment. Environmental Science and Technology. 27(9):1719-1728.

Ogden Environmental and Energy Services Co, Inc. 1995. Final Report. Dredged Material Testing for Ocean Disposal; Berths 127-131. Project Directive Number 3; Agreement No. 1831. Prepared for the Los Angeles Harbor Department Environmental Management Division. August.

Ogden Environmental and Energy Services Co, Inc. 1997. Final Report. Dredged Material Testing for Ocean Disposal; Berths 121-126. Project Directive Number 3; Agreement No. 1831. Prepared for the Los Angeles Harbor Department Environmental Management Division. June.

Plumb, R.H., Jr. 1981. Procedures for Handling and Chemical Analysis of Sediment and Water Samples. Environmental laboratory. Tech. Rep. EPA/CE-81-1. U.S. Army Engineer Waterways Experiment Station. Vicksburg, MS.

SWRCB/CALEPA, 2001. Water Quality Control Plan, Ocean Waters of California: California Ocean Plan. December 2001.

ToxScan. 1990. Technical Evaluation of Environmental Impact Potential for Proposed Ocean Disposal of Dredged Material From Berths 229-232 in Los Angeles Harbor. Prepared for the Port Los Angeles, San Pedro, California. March 1990.

ToxScan. 1991. Technical Evaluation of Environmental Impact Potential for Proposed Ocean Disposal of Dredged Material From Berths 177-179 in Los Angeles Harbor. Port Los Angeles, San Pedro, California. August 1991.

ToxScan. 1997. Chemical Analysis and Toxicity Evaluation of Sediments Proposed for Maintenance Dredging and Ocean Disposal; Berths 233-236, Port of Los Angeles, Directive IIA. Port Los Angeles, San Pedro, California. January 1997.

Uhler, A.D. and G.S. Durell. 1989. Measurement of Butyltin Species in Sediments by n-Pentyl Derivatization with Gas Chromatography/Flame Photometric Detection (GC/FPD) and Optional Confirmation by Gas Chromatography/Mass Spectrometry (GC?MS). Battelle Ocean Sciences Project #N-0519-6100, Duxbury, MA.

USEPA, 1994a. Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods. EPA 600/R-94/025.

USEPA. 1994b. USEPA Functional Guidelines for Inorganic Data Review. EPA 540/R-94/013.

USEPA. 1994c. USEPA Functional Guidelines for Inorganic Data Review. EPA 540/R-94/012.

USEPA. 2000a. 40 CFR Part 131. Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; Rule. May 2000.

USEPA. 2000b. Appendix to Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment. Status and Needs. Chemical-Specific Summary Tables. EPA-823-R-00-002. February 2000.

USEPA. 2002. Ambient Aquatic Water Quality Criteria for Tributyltin (TBT) – Draft. Office of Water. EPA-822-8-02-001. December 2002.

USACE. 2003a. Evaluation of Dredged Material Proposed for Disposal at Island, Nearshore, or Upland Confined Disposal Facilities(Testing Manual). Department of the Army, USACE Research and Development Center. Vicksburg, MS. ERDC/EL TR-03-1. January 2003. (Commonly referred to as the UTM).

USACE. 2003b. Biota/Sediment Accumulation Factors (BSAFs) Database (http://www.wes.army.mil/el/bsaf/bsaf.html).

USEPA/USACE. 1998. Evaluation of Dredged Material Proposed for Discharge in Waters of the U.S.-Testing Manual. EPA-823-B-98 (Commonly referred to as the ITM).

USEPA/USACE. 2003. Environmental Residue Effects Database (ERED) (http://www.wes.army.mil/el.ered).

FIGURE

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West Basin Ambient Water Quality

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