

Table 5-1. Distribution of Inorganic Chemicals in Surface Sediments

Analyte	Year	Total Number of Samples	Nondetects					Threshold Values				
			Total Nondetects	Range of Detection Limits (mg/kg)	Total Number of Detects	Range of Detected Concentrations (mg/kg)	Median (mg/kg)	Mean Concentration (mg/kg)	ER-L ^(a) (mg/kg)	Ambient (mg/kg)	ER-M ^(a) (mg/kg)	PRG Industrial ^(b) (mg/kg)
Aluminum	1997	6	0	-	6	42,430-49,040	46,620	46,210	NA	NA	NA	1.0E+05
Arsenic	1997	8	6	36-36	2	9.2-9.9	9.55	9.55	8.2	15.3	70	2.7E+00
Barium	1997	6	0	-	6	50.4-143.2	114.3	107.4	NA	NA	NA	1.0E+05
Cadmium	1997	8	0	-	8	2.08-24.18	16.28	15.48	1.2	0.33	9.6	8.1E+02
Calcium	1997	6	0	-	6	9187-10,930	9,520	9,778	NA	NA	NA	NA
Chromium	1997	8	0	-	8	146-300.4	265.3	247.1	81	112	370	4.5E+02
Cobalt	1997	6	0	-	6	22.23-27.48	25.81	25.47	NA	NA	NA	1.0E+05
Copper	1997	8	0	-	8	58.2-135.2	122	112.7	34	68.1	270	7.6E+04
Iron	1997	6	0	-	6	44,810-55,460	51,170	51,260	NA	NA	NA	1.0E+05
Lead	1997	8	0	-	8	56.5-290.2	214.7	212.9	46.7	43.2	218	7.5E+02
Magnesium	1997	6	0	-	6	9,399-16,170	13,930	13,080	NA	NA	NA	NA
Manganese	1997	6	0	-	6	400.3-492.8	458.8	456.5	NA	NA	NA	3.2E+04
Mercury	1997	8	0	-	8	0.518-1.4	1.13	1.067	0.15	0.43	0.71	6.1E+02
Nickel	1997	8	0	-	8	77.7-143	132	119.6	20.9	112	51.6	4.1E+04
Selenium	1997	6	0	-	6	87.4-157.6	106.5	113.9	0.7	0.64	1.4	1.0E+04
Silver	1997	6	5	3-3	1	5.9-5.9	5.9	5.9	1	0.58	3.7	1.0E+04
Vanadium	1997	6	0	-	6	135.1-169.6	158.6	157.4	NA	NA	NA	1.4E+04
Zinc	1997	8	0	-	8	148-331.8	299.8	277.8	150	158	410	1.0E+05

(a) Source: Long et al, 1995.

(b) Source: U.S. EPA, 2000.

NA = not available.

32

April 4, 2001

RESULTS FROM:
 DRAFT SEAPLANE LAGOON
 SITE CHARACTERIZATION MEMO

Table 5-2. Distribution of Inorganic Chemicals in Subsurface Sediments

Analyte	Year	Total Number of Samples	Total Nondetects	Range of Detection Limits (mg/kg)	Total Number of Detects	Range of Detected Concentrations (mg/kg)	Median (mg/kg)	Mean Concentration (mg/kg)	Threshold Values			
									ER-L ^(b) (mg/kg)	Ambient (mg/kg)	ER-M ^(b) (mg/kg)	PRG Industrial ^(b) (mg/kg)
Aluminum	1996	43	0	-	43	3,400-35,300	6,970	11,390	NA	NA	NA	1.0E+05
Aluminum	1997	35	0	-	35	31,050-54,120	44,530	41,950	NA	NA	NA	1.0E+05
Antimony	1993	9	0	-	9	32-53	41	42.11	2	NA	25	8.2E+02
Antimony	1996	43	28	0.76-1.3	15	0.79-9.5	1.8	2.155	2	NA	25	8.2E+02
Arsenic	1993	9	0	-	9	7.4-18	11	11.37	8.2	15.3	70	2.7E+00
Arsenic	1996	43	17	0.94-5.6	26	0.94-14.7	5.4	6.108	8.2	15.3	70	2.7E+00
Arsenic	1997	40	34	36	6	9-39.3	12.6	18.12	8.2	15.3	70	2.7E+00
Barium	1996	43	0	-	43	12.3-149	52.1	56.48	NA	NA	NA	1.0E+05
Barium	1997	35	0	-	35	8-209	101	112.1	NA	NA	NA	1.0E+05
Beryllium	1993	9	6	0.25-0.25	3	0.25-0.25	0.25	0.25	NA	NA	NA	2.2E+03
Beryllium	1996	43	43	0.02-0.11	0	-	N/A	N/A	NA	NA	NA	2.2E+03
Cadmium	1993	9	0	-	9	0.9-1,400	230	308.5	1.2	0.33	9.6	8.1E+02
Cadmium	1996	43	20	0.05-0.17	23	0.05-395	1.9	21.41	1.2	0.33	9.6	8.1E+02
Cadmium	1997	40	0	-	40	0.9-1,222	66.75	166.8	1.2	0.33	9.6	8.1E+02
Calcium	1996	43	0	-	43	1,120-16,100	2,740	3,565	NA	NA	NA	NA
Calcium	1997	35	0	-	35	7,773-21,920	9,743	10,650	NA	NA	NA	NA
Chromium	1993	9	0	-	9	180-2,900	880	1,168	81	112	370	4.5E+02
Chromium	1996	43	0	-	43	19.7-1,110	44.2	88.02	81	112	370	4.5E+02
Chromium	1997	40	0	-	40	100-2,853	478	639.4	81	112	370	4.5E+02
Cobalt	1996	43	0	-	43	4.6-25.5	7.2	9.912	NA	NA	NA	1.0E+05
Cobalt	1997	35	0	-	35	14.4-156.9	27.9	35.5	NA	NA	NA	1.0E+05
Copper	1993	9	0	-	9	61-620	150	203.4	34	68.1	270	7.6E+04
Copper	1996	43	0	-	43	5-347	11.4	28.83	34	68.1	270	7.6E+04
Copper	1997	40	0	-	40	19-241.2	171.4	169.2	34	68.1	270	7.6E+04
Iron	1996	43	0	-	43	5,970-45,600	11,300	17,890	NA	NA	NA	1.0E+05
Iron	1997	35	0	-	35	23,340-58,200	49,630	49,900	NA	NA	NA	1.0E+05
Lead	1993	9	0	-	9	45-4,000	900	1,174	46.7	43.2	218	7.5E+02
Lead	1996	43	1	1.9-1.9	42	2.6-1,970	10.55	68.95	46.7	43.2	218	7.5E+02
Lead	1997	40	0	-	40	55-1,396	596.5	672.4	46.7	43.2	218	7.5E+02
Magnesium	1996	43	0	-	43	2,090-18,100	4,250	6,738	NA	NA	NA	NA
Magnesium	1997	35	0	-	35	6,550-18,220	13,230	13,200	NA	NA	NA	NA
Manganese	1996	43	0	-	43	80.4-685	149	210.6	NA	NA	NA	3.2E+04
Manganese	1997	35	0	-	35	341-952	424	447	NA	NA	NA	3.2E+04
Mercury	1993	9	0	-	9	0.38-2.6	1.4	1.271	0.15	0.43	0.71	6.1E+02
Mercury	1996	43	18	0.02-0.24	25	0.03-2.4	0.34	0.4412	0.15	0.43	0.71	6.1E+02
Mercury	1997	39	0	-	39	0.3-2.6	1.8	1.644	0.15	0.43	0.71	6.1E+02
Molybdenum	1996	43	41	0.29-0.79	2	0.41-6.5	3.455	3.455	NA	NA	NA	1.0E+04

Table 5-2. Distribution of Inorganic Chemicals in Subsurface Sediments (continued)

Analyte	Year	Total Number of Samples	Total Nondetects	Range of Detection Limits (mg/kg)	Total Number of Detects	Range of Detected Concentrations (mg/kg)	Median (mg/kg)	Mean Concentration (mg/kg)	Threshold Values			
									ER-L ^(a) (mg/kg)	Ambient (mg/kg)	ER-M ^(a) (mg/kg)	PRG Industrial ^(b) (mg/kg)
Nickel	1993	9	0	-	9	98-170	130	121.9	20.9	112	51.6	4.1E+04
Nickel	1996	43	0	-	43	18.6-139	40.1	54.19	20.9	112	51.6	4.1E+04
Nickel	1997	40	0	-	40	73-186.3	142.5	139.7	20.9	112	51.6	4.1E+04
Potassium	1996	43	0	-	43	687-9,890	1,660	2,995	NA	NA	NA	NA
Selenium	1993	9	4	0.25-0.25	5	0.3-0.99	0.39	0.548	0.7	0.64	1.4	1.0E+04
Selenium	1996	43	42	0.74-1.9	1	1.6-1.6	1.6	1.6	0.7	0.64	1.4	1.0E+04
Selenium	1997	35	0	-	35	65-157	112	110.4	0.7	0.64	1.4	1.0E+04
Silver	1993	9	0	-	9	0.55-130	21	27.96	1	0.58	3.7	1.0E+04
Silver	1996	43	35	0.14-1.4	8	1-41.8	1.95	6.7	1	0.58	3.7	1.0E+04
Silver	1997	35	14	3	21	3.6-44.6	9.2	13.18	1	0.58	3.7	1.0E+04
Sodium	1996	43	0	-	43	2,050-29,600	5,700	9,450	NA	NA	NA	NA
Vanadium	1996	43	1	39.5-39.5	42	14.7-92.7	23.3	36.9	NA	NA	NA	1.4E+04
Vanadium	1997	35	0	-	35	83-206	165.2	162.3	NA	NA	NA	1.4E+04
Zinc	1993	9	0	-	9	200-1,400	830	784.4	150	158	410	1.0E+05
Zinc	1996	43	2	19.3-34.4	41	22.9-807	46.4	90.67	150	158	410	1.0E+05
Zinc	1997	40	0	-	40	85-1,325	412.5	442.2	150	158	410	1.0E+05

(a) Source: Long et al, 1995.

(b) Source: U.S. EPA, 2000.

N/A = not applicable.

NA = not available.