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**APPENDIX B**

**RESULTS OF CHEMICAL ANALYSIS OF SEDIMENT**

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Table B-1a  
Physical/Conventional Parameters

	Total Solids	Total Volatile Solids	pH	Ammonia	Total Organic Carbon	Total Sulfides	Oil and Grease
2001 USACE Data							
Method	EPA 160.3M		EPA 150.1/EPA 9045C	EPA 350.1M	ASTM D4129-82M	EPA 9030M	
Reporting Limits	0.1		0.01	0.2-0.4	0.05	0.5-40	
Units	Percent wet weight		pH units	mg/kg	Percent	mg/kg	
DCPH01-01	73.4	--	8.1	4.3	0.75	315	--
DCPH01-04	79.6	--	7.93	1.9	0.48	144	--
DCPH01-14	79.2	--	8.12	2.7	0.44	175	--
DCPH01-19	74.3	--	8.05	4.6	0.64	427	--
2002 USACE Data							
Method	EPA 160.3M		EPA 150.1/EPA 9045C	EPA 350.1M	ASTM D4129-82M	EPA 9030M	
Reporting Limits	0.1 - 0.2		0.1 - 0.2	0.05	1.5 - 150	--	
Units	Percent wet weight		pH units	mg/kg	%	mg/kg	
DCPH-02-1A	73.1	--	8.26	3.7	0.57	382	--
DCPH-02-1B	82.7	--	8.34	2	0.29	0.8	--
DCPH-02-3A	73.9	--	8.3	9.3	0.42	587	--
DCPH-02-3B	82.8	--	8.29	8.4	0.17	1.3	--
DCPH-02-6A	69.1	--	8.29	7.4	0.62	772	--
DCPH-02-6B	70.7	--	8.26	13	0.42	562	--
DCPH-02-7A	75.8	--	8.25	10.4	0.26	150	--
DCPH-02-7B	78	--	8.51	12.7	0.17	166	--
2006 OHD Data							
Method	EPA 160.3				NR		
Reporting Limits	0.1				NR		
Units	Percent				Percent		
PH-CS-01-D06	73	--	--	--	0.55	--	--
PH-CS-01-M06	77	--	--	--	0.4	--	--
PH-CS-02-D06	78	--	--	--	0.22	--	--
PH-CS-02-M06	72	--	--	--	0.77	--	--
2007 U.S. Navy Data							
Method	EPA 160.3M				Walkley-Black Method		
Reporting Limits	0.1				0.08		
Units	Percent				Percent		
HSS19-02-1	73.9	--	--	--	1.24	--	--
HSS19-02-2	71.1	--	--	--	2.08	--	--
HSS19-03-1	80.8	--	--	--	0.31	--	--
HSS19-03-2	80.7	--	--	--	0.42	--	--
HSS19-04-1	79.6	--	--	--	0.33	--	--
HSS19-04-2	82.9	--	--	--	0.28	--	--
HSS19-06-1	78.4	--	--	--	0.33	--	--
HSS19-06-2	82	--	--	--	0.14	--	--
HSS19-07-1	81.6	--	--	--	0.31	--	--
HSS19-07-2	83.8	--	--	--	0.36	--	--
HSS19-07-3	75.8	--	--	--	0.14	--	--
HSS19-08-1	77.5	--	--	--	0.19	--	--
HSS19-08-2	81.4	--	--	--	0.58	--	--
HSS19-09-1	62.5	--	--	--	1.48	--	--
HSS19-09-2	81.6	--	--	--	0.47	--	--
HSS19-11-1	81.1	--	--	--	0.50	--	--
HSS19-11-2	80.3	--	--	--	0.33	--	--
HSS19-11-3	76.1	--	--	--	0.98	--	--
HSS19-12-1	69.6	--	--	--	1.28	--	--
HSS19-12-2	79.3	--	--	--	0.78	--	--
HSS19-12-3	81.3	--	--	--	0.76	--	--
HSS19-13-1	59.2	--	--	--	2.04	--	--
HSS19-13-2	77.8	--	--	--	0.69	--	--
HSS19-14-1	54	--	--	--	2.27	--	--
HSS19-14-2	71.2	--	--	--	0.76	--	--
HSS19-14-3	72.5	--	--	--	0.28	--	--
HSS19-15-1	60.7	--	--	--	1.25	--	--
HSS19-15-2	78.2	--	--	--	0.48	--	--
HSS19-16-1	58.1	--	--	--	1.87	--	--
HSS19-16-2	60.7	--	--	--	1.87	--	--
HSS19-17-1	62.4	--	--	--	1.00	--	--
HSS19-17-2	52.6	--	--	--	2.32	--	--
HSS19-18-1	61.1	--	--	--	1.05	--	--
HSS19-18-2	84.2	--	--	--	0.33	--	--
HSS19-18-3	79.4	--	--	--	ND	--	--
HSS19-19-1	62	--	--	--	1.22	--	--
HSS19-19-2	58.6	--	--	--	1.67	--	--

Table B-1a  
Physical/Conventional Parameters

	Total Solids	Total Volatile Solids	pH	Ammonia	Total Organic Carbon	Total Sulfides	Oil and Grease
HSS19-20-1	71.9	--	--	--	1.19	--	--
HSS19-20-2	79.3	--	--	--	0.21	--	--
HSS19-21-1	64.2	--	--	--	1.39	--	--
HSS19-21-2	75.7	--	--	--	1.00	--	--
HSS19-22-1	78.3	--	--	--	1.10	--	--
HSS19-22-2	77.8	--	--	--	0.54	--	--
HSS19-23-1	51.8	--	--	--	1.96	--	--
HSS19-23-2	75.7	--	--	--	0.21	--	--
HSS19-23-3	76.6	--	--	--	0.31	--	--
HSS19-25-1	60	--	--	--	1.54	--	--
HSS19-25-2	68.7	--	--	--	1.12	--	--
HSS19-26-1	55.2	--	--	--	1.38	--	--
HSS19-26-2	57.3	--	--	--	1.23	--	--
HSS19-28-1	66.4	--	--	--	0.62	--	--
HSS19-28-2	73	--	--	--	1.12	--	--
HSS19-28-3	72.8	--	--	--	0.9	--	--
HSS19-29-1	52.5	--	--	--	2.16	--	--
HSS19-29-2	59.6	--	--	--	1.28	--	--
HSS19-29-3	70.4	--	--	--	0.73	--	--
HSS19-31-1	69.2	--	--	--	1.24	--	--
HSS19-31-2	66.7	--	--	--	1.22	--	--
HSS19-32-1	59.5	--	--	--	1.25	--	--
HSS19-32-2	64.3	--	--	--	1.43	--	--
HSS19-33-1	69	--	--	--	1.28	--	--
HSS19-33-2	71.4	--	--	--	0.76	--	--
HSS19-33-3	73.2	--	--	--	0.21	--	--
HSS19-34-1	70.8	--	--	--	0.69	--	--
HSS19-34-2	72.2	--	--	--	0.44	--	--
HSS19-37-1	73.6	--	--	--	0.64	--	--
HSS19-37-2	74.2	--	--	--	0.28	--	--
HSS19-40-1	70.7	--	--	--	0.92	--	--
HSS19-40-2	72.2	--	--	--	0.74	--	--
HSS19-41-1	64	--	--	--	1.82	--	--
HSS19-41-2	72.4	--	--	--	1.05	--	--
HSS19-41-3	72.5	--	--	--	0.73	--	--
HSS19-43-1	68.5	--	--	--	1.30	--	--
HSS19-43-2	58.7	--	--	--	2.40	--	--
HSS19-44-1	64.5	--	--	--	1.50	--	--
HSS19-44-2	65.6	--	--	--	1.64	--	--
HSS19-44-3	75.8	--	--	--	0.5	--	--
HSS19-45-1	75.7	--	--	--	1.27	--	--
HSS19-45-2	66.9	--	--	--	1.89	--	--
HSS19-47-1	62.9	--	--	--	1.02	--	--
HSS19-47-2	66.1	--	--	--	1.51	--	--
HSS19-48-1	50.3	--	--	--	1.67	--	--
HSS19-48-2	51.4	--	--	--	3.76	--	--
HSS19-48-3	75.8	--	--	--	0.38	--	--

Notes:  
Sediments considered chemically "impacted" and planned for disposal within CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
"--" = not tested  
NR = not recorded

Table B-1b  
Physical/Conventional Parameters

	Total Solids	Total Volatile Solids	pH	Ammonia	Total Organic Carbon	Total Sulfides	Oil and Grease
2001 USACE Data							
Method	EPA 160.3M		EPA 150.1/EPA 9045C	EPA 350.1M	ASTM D4129-82M	EPA 9030M	
Reporting Limits	0.1		0.01	0.2-0.4	0.05	0.5-40	
Units	% wet weight		pH units	mg/kg	%	mg/kg	
DCPH01-02	79.4	--	8.18	2.1	0.49	65.6	--
DCPH01-03	79.3	--	8.15	3.3	0.36	183	--
DCPH01-05	77.3	--	8.18	1	0.13	4.8	--
DCPH01-06	78.7	--	8.22	2.5	0.16	70.5	--
DCPH01-07	81.6	--	8.32	2.1	0.8	14.3	--
DCPH01-08	78.1	--	7.98	4.3	0.43	210	--
DCPH01-09	82.4	--	8.07	ND	0.44	302	--
DCPH01-10	76.2	--	8.25	3.6	0.39	196	--
DCPH01-11	81.6	--	8.11	0.3 J	0.17	10.2	--
DCPH01-12	78	--	8.05	ND	0.19	73	--
DCPH01-13	78	--	8.19	2.5	0.5	170	--
DCPH01-15	76.8	--	7.96	4.6	0.31	129	--
DCPH01-16	79.3	--	8.13	1.3	0.66	295	--
DCPH01-17	76.9	--	8.14	2	0.79	61.8	--
DCPH01-18	78.8	--	8.22	5.7	0.26	108	--
DCPH01-20	77.5	--	8.13	0.4	0.39	8.6	--
2002 USACE Data							
Method	EPA 160.3M		EPA 150.1/EPA 9045C	EPA 350.1M	ASTM D4129-82M	EPA 9030M	
Reporting Limits	0.1 - 0.2		0.1 - 0.2	0.05	1.5 - 150	--	
Units	% wet weight		pH units	mg/kg	%	mg/kg	
DCPH-02-2A	77.6	--	8.39	2.5	0.23	154	--
DCPH-02-2B	81.1	--	8.22	1.9	0.08	5.2	--
DCPH-02-4A	78.3	--	8.12	1.2	0.15	42.1	--
DCPH-02-4B	78.9	--	8.36	1.4	0.06	2	--
DCPH-02-5A	76.1	--	8.17	7.1	0.51	305	--
DCPH-02-5B	75.6	--	8.53	23.5	0.27	259	--
2007 Navy Data							
Method	EPA 160.3M				Walkley-Black Method		
Reporting Limits	0.1				0.08		
Units	%				%		
HSS19-24-1	65.9	--	--	--	1.02	--	--
HSS19-24-2	66.1	--	--	--	1.30	--	--
HSS19-27-1	65.2	--	--	--	1.35	--	--
HSS19-27-2	74.6	--	--	--	0.42	--	--
HSS19-27-3	76.8	--	--	--	0.81	--	--
HSS19-30-1	75.7	--	--	--	0.62	--	--
HSS19-30-2	73.5	--	--	--	1.05	--	--
HSS19-35-1	88.5	--	--	--	0.08	--	--
HSS19-36-1	75.4	--	--	--	0.38	--	--
HSS19-36-2	75.3	--	--	--	0.30	--	--
HSS19-36-3	74.5	--	--	--	0.38	--	--
HSS19-38-1	70	--	--	--	0.80	--	--
HSS19-38-2	80.6	--	--	--	0.08	--	--
HSS19-38-3	75.3	--	--	--	0.22	--	--
HSS19-39-1	79.7	--	--	--	0.08	--	--
HSS19-39-2	80.1	--	--	--	0.19	--	--
HSS19-39-3	79.7	--	--	--	0.45	--	--
HSS19-42-1	70.3	--	--	--	1.10	--	--
HSS19-42-2	73.5	--	--	--	0.76	--	--
HSS19-46-1	74.8	--	--	--	0.17	--	--
HSS19-46-2	73.7	--	--	--	0.36	--	--
HSS19-46-3	72.9	--	--	--	0.31	--	--
HSS19-49-1	77.7	--	--	--	0.17	--	--
HSS19-49-2	80.6	--	--	--	0.22	--	--

Notes:  
"Clean" sediments considered suitable for capping of CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
"--" = not tested  
NR = not recorded

Table B-2a  
Metals

	Antimony (Sb)	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Lead (Pb)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Zinc (Zn)
2001 USACE Data											
Method	EPA 6010B	EPA 7060A	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 7471A	EPA 6010B	EPA 7740	EPA 6010B	EPA 6010B
Reporting Limits	10,000-12,100	1,000-2,200	1,000-1,210	1,000-1,200	2,000-2,400	20,400-24,300	20	4,000-4,850	2,000-2,400	2,060-2,430	2,000-2,400
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-01	ND NM	5600	1,100 B	22500	23600	12,600 B	60	17900	ND	ND	67100
DCPH01-04	ND NM	2900	700 B	11400	10700	6,500 B	40	26800	ND	ND	34400
DCPH01-14	ND NM	4200	ND	17300	23100	7,800 B	30	13800	ND	ND	52800
DCPH01-19	ND NM	4000	1,030 J	20400	11900	12,300 J	30	15700	ND	ND	49900
2002 USACE Data											
Method	EPA 6010B	EPA 7060A	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 7471A	EPA 6010B	EPA 7740	EPA 6010B	EPA 6010B
Reporting Limits	10,300 - 12,200	2,600 - 3,100	1,000 - 1,200	1,000 - 1,200	2,100 - 2,400	10,000 - 12,000	20	4,100 - 4,900	2,600 - 3,100	2,100 - 2,400	2,100 - 2,400
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-1A	3400	4100	600	16500	27000	16600	110	13600	600	1200	69800
DCPH-02-1B	3600	1600	600	5200	5500	5000	20	5800	600	600	20100
DCPH-02-3A	3400	4100	600	17300	25900	13500	100	15600	600	700	84100
DCPH-02-3B	3600	1200	600	5700	5200	5000	50	4500	600	600	17800
DCPH-02-6A	3100	4200	500	20000	17600	11300	60	17800	500	900	57600
DCPH-02-6B	3500	3700	600	15300	11500	9000	30	14900	600	600	47200
DCPH-02-7A	3300	2100	500	11200	7400	5000	20	8100	600	700	32100
DCPH-02-7B	3100	1600	500	8100	5400	4000	20	7400	500	900	24700
2006 OHD Data											
Method	EPA 6020m	EPA 6020m	EPA 6020m	EPA 6020m	EPA 6020m	EPA 6020m	EPA 245.7m	EPA 6020m	EPA 6020m	EPA 6020m	EPA 6020m
Reporting Limits	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.05	0.05	0.05	0.05
Units	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g
PH-CS-01-D06	0.3	5.1	0.5	19.8	28.6	16.7	0.1	14.0	0.6	0.5	69.0
PH-CS-01-M06	0.3	3.5	0.4	16.2	25.1	8.7	0.1	10.9	0.5	0.4	62.7
PH-CS-02-D06	0.2	4.3	0.3	11.4	10.0	4.0	0.02	9.7	0.4	0.5	31.0
PH-CS-02-M06	0.5	6.4	0.5	20.8	47.5	22.4	0.1	13.8	0.6	0.5	94.4
2007 Navy Data											
Method	EPA 6020	EPA 6020	EPA 6020	EPA 6020	EPA 6020	EPA 6020	EPA 7471A	EPA 6020	EPA 6020	EPA 6020	EPA 6020
Reporting Limits	0.07 - 0.12	0.39 - 0.70	0.017 - 0.025	0.16 - 0.27	0.20 - 3.2	0.05 - 1.55	0.018 0.10	0.14 - 0.26	0.080 - 0.16	0.043 - 0.073	2.4 - 28.4
Units	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g
HSS19-02-1	0.47	5.3	0.68	20.6	65.3	37.2	0.145	15.2	0.27	0.189	162
HSS19-02-2	0.55	4.2	2.85	19.5	47.7	71.2	2.43	14.8	0.35	0.284	133
HSS19-03-1	0.11	1.8	0.249	6.58	8.35	11	0.05	6.4	0.36	0.062	42.1
HSS19-03-2	0.07	1.6	0.159	4.13	4.06	43.4	0.019 J	4.86	0.54	0.02 J	14.2
HSS19-04-1	1.49	2.4	0.344	8.02	31.9	14.3	0.018 J	7.69	0.41	0.08	169
HSS19-04-2	0.32	1.5	0.182	5.82	13.9	4.94	0.045	5.79	0.2	0.031 J	37.4
HSS19-06-1	0.22	1.4	0.284	7.22	7.02	6.04	0.028	7.87	0.37	0.037 J	24.3

**Table B-2a**  
**Metals**

	Antimony (Sb)	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Lead (Pb)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Zinc (Zn)
HSS19-06-2	0.14	0.7	0.173	5.23	3.72	1.9	0.012 J	5.46	0.25	0.022 J	14
HSS19-07-1	0.14	1.07	0.286	6.82	6.9	4.1	0.023	7.38	0.27	0.039	29.4
HSS19-07-2	0.07	0.88	0.123	6.34	6.1	7.8	0.017	5.87	0.15	0.033	18.1
HSS19-07-3	0.06	0.5 J	0.166	4.56	3.5	1.73	0.007 J	4.91	0.05 J	0.019 J	16.8
HSS19-08-1	0.09	1.82	0.286	9.08	8.3	6.52	0.025	9.2	0.15	0.057	28.6
HSS19-08-2	0.14	2.01	0.31	10.2	9.3	6.16	0.04	9.75	0.22	0.058	34.3
HSS19-09-1	0.33	6	0.514	26.4	68.5	24.8	0.119	18.7	0.2	0.195	125
HSS19-09-2	0.13	1.7	0.274	8.82	10.3	5.26	0.036	8.09	0.14	0.046 J	34
HSS19-11-1	0.14	4.13	0.4	11	9.9	4.6	0.039	10.3	0.35	0.054	34.4
HSS19-11-2	0.06	0.92	0.292	11	9.3	4.33	0.011	9.66	0.18	0.029	18.4
HSS19-11-3	0.17	11.2	1.01	27.9	21.1	10.2	0.03	26.2	0.42	0.104	66.8
HSS19-12-1	0.23	5.49	1.03	24.4	26.8	20.9	0.11	22.3	0.68	0.161	86.3
HSS19-12-2	0.16	3.94	0.686	18.2	16.1	11.1	0.059	16.3	0.37	0.081	52.5
HSS19-12-3	0.17	3.18	0.65	19	15.7	8.61	0.038	16.7	0.29	0.082	45.7
HSS19-13-1	0.45	8.44	0.706	31.6	108	32	0.12	24.2	0.46	0.242	160
HSS19-13-2	0.16	3.62	0.345	14.8	17.2	9.87	0.034	12.4	0.25	0.069	55.6
HSS19-14-1	0.35	11.2	0.846	37.5	112	36.1	0.148	29	0.39	0.279	211
HSS19-14-2	0.23	3.9	0.701	18.4	24.4	16.5	0.101	18.6	0.35	0.131	78.2
HSS19-14-3	0.17	3.56	1.06	25.8	19.7	9.42	0.033	22.4	0.32	0.068	54
HSS19-15-1	0.57	6.17	0.588	27.2	57.9	22.3	0.081	21	0.43	0.177	123
HSS19-15-2	0.12	3.81	0.414	10.7	12.7	7.47	0.045	10.5	0.27	0.069	38
HSS19-16-1	0.48	8.29	0.627	33.8	85.1	27.3	0.107	24.2	0.39	0.212	226
HSS19-16-2	0.29	9.78	1.16	32.4	190	37.2	0.168	26.9	0.42	0.276	239
HSS19-17-1	0.28	5.6	0.795	20.8	35.4	28.1	0.477	18.2	0.29	0.189	112
HSS19-17-2	0.31	11	1.05	36	110	46.9	0.189	25.6	0.49	0.303	230
HSS19-18-1	0.45	5.95	0.488	24.7	52.4	16.3	0.067	21.4	0.43	0.155	102
HSS19-18-2	0.07	1.55	0.341	6.44	90.6	4.75	0.035	7.41	0.2	0.044	22.5
HSS19-18-3	0.09	1.81	0.174	6.5	5	2.63	0.011 J	6.78	0.09 J	0.026 J	19
HSS19-19-1	0.28	5.3	0.47	24.1	52.5	18.1	0.057	18.5	0.82	0.124	95.3
HSS19-19-2	0.34	7.3	0.603	27.7	190	21.5	0.081	20.3	0.25	0.175	137
HSS19-20-1	0.34	4	1.21	22.2	32.3	102	0.161	14.4	0.19	0.166	99.4
HSS19-20-2	0.12	0.9	0.243	6.56	5.37	2.36	0.013 J	7.27	0.14	0.026 J	18.2
HSS19-21-1	0.33	6.5	0.64	28.2	65.3	70.2	0.146	18.1	0.21	0.205	164
HSS19-21-2	0.25	3.7	0.659	16.7	18.7	19.6	0.148	16.4	0.22	0.129	61.2
HSS19-22-1	0.33	4.5	1.3	13.3	24.8	15.6	0.1	10.6	0.1	0.087	76.7
HSS19-22-2	0.12	2.3	0.341	10.6	9.14	3.81	0.027	10.1	0.15	0.049 J	36.4
HSS19-23-1	0.44	33.4	0.784	34.8	240	37.6	0.136	25.4	0.4	0.246	193
HSS19-23-2	0.13	1	0.191	6.34	7.4	3.77	0.028	6.48	0.17	0.039 J	24
HSS19-23-3	0.09	0.86	0.209	5.16	4.5	2.2	0.008 J	5.92	0.07 J	0.032 J	14.8
HSS19-25-1	0.41	13.5	0.79	27.3	87.8	26.9	0.09	21.4	0.18	0.152	147
HSS19-25-2	0.27	4.98	0.597	15.5	27.2	21.6	0.139	13.6	0.17	0.131	72.7
HSS19-26-1	0.29	9.3	0.593	31.4	124	25	0.118	23.9	0.38	0.202	148

Table B-2a  
Metals

	Antimony (Sb)	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Lead (Pb)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Zinc (Zn)
HSS19-26-2	0.38	6.4	1.03	28.9	59.7	30.7	0.229	22.5	0.46	0.243	127
HSS19-28-1	0.23	7.42	0.384	15.5	81.8	12.2	0.077	14.1	0.15	0.096	78.1
HSS19-28-2	0.28	3.76	1.05	15.9	24.2	25.4	0.173	13.6	0.13	0.171	69.3
HSS19-28-3	0.32	5.15	0.976	126	28.2	152	0.218	19	0.24	0.167	90
HSS19-29-1	0.25	8.1	0.733	32.2	81.7	34.4	0.094	23.8	0.87	0.183	141
HSS19-29-2	0.33	6.3	1.14	25.6	35.9	38.1	0.232	21.4	0.5	0.223	118
HSS19-29-3	0.24	2.79	1.11	14.4	19.9	21.7	0.067	12.7	0.36	0.101	245
HSS19-31-1	0.19	6.48	0.454	18.7	47.8	19.4	0.079	15.8	0.2	0.119	109
HSS19-31-2	0.24	6.84	0.719	21.6	33.6	27.6	0.109	17.2	0.22	0.167	112
HSS19-32-1	0.24	4.9	0.491	22.2	46.9	14.4	0.077	18	0.31	0.147	106
HSS19-32-2	0.44	6.8	0.961	40.4	38	213	0.221	23.3	0.4	0.285	123
HSS19-33-1	0.23	7.62	0.594	19.5	52.6	17.8	0.084	16.1	0.23	0.143	121
HSS19-33-2	0.24	3.41	0.479	14.5	23.3	54.3	0.138	11.8	0.38	0.135	78.9
HSS19-33-3	1.54	1.26	0.161	10	7.1	4.31	0.026	8.9	0.23	1.16	
HSS19-34-1	0.14	3.7	0.333	16.3	25.4	8.64	0.053	14	0.24	0.075	54.4
HSS19-34-2	0.25	3.3	0.363	15.9	25	23	0.114	11.2	0.2	0.134	59
HSS19-37-1	0.14	3.1	0.303	12.9	9.3	6.59	0.019	12.9	0.31	0.054 J	36.6
HSS19-37-2	0.09	2.1	0.16	7.4	3.8	3.06	0.009 J	7.49	0.13	0.024 J	17.9
HSS19-40-1	0.14	3.8	0.428	18.7	13.5	8.56	0.027	16.4	0.19	0.083	58
HSS19-40-2	0.1	3.37	0.363	17.7	12.7	9.1	0.073	14.4	0.28	0.081	58.6
HSS19-41-1	0.17	5.5	0.571	25.2	19.4	10.6	0.037	19.9	0.28	0.113	69.5
HSS19-41-2	0.14	4.34	0.694	21.7	16.1	13.4	0.05	18.7	0.39	0.174	63.2
HSS19-41-3	0.14	2.78	0.421	11	7.6	4.56	0.021	10.5	0.2	0.069	29.4
HSS19-43-1	0.15	5.41	0.663	24.9	18.2	10.8	0.042	21.2	0.41	0.114	73.4
HSS19-43-2	0.18	6.74	0.791	24.6	21.2	12.2	0.053	23.5	0.36	0.15	81.8
HSS19-44-1	0.18	6.32	0.666	26.9	21	12.5	0.044	22.7	0.28	0.139	79.7
HSS19-44-2	0.17	5.24	0.607	25.4	18.3	10.5	0.051	21.3	0.39	0.122	70.4
HSS19-44-3	0.13	2.07	0.35	9.95	6.6	3.77	0.018 J	10	0.21	0.066 J	27.2
HSS19-45-1	0.13	4.37	0.499	20	13	7.76	0.028	16.5	0.17	0.078	52.3
HSS19-45-2	0.14	5.57	0.57	19.8	16.8	12.9	0.049	17.9	0.14	0.115	62.9
HSS19-47-1	0.19	5.52	0.926	27.1	20.4	11.2	0.041	25.3	0.52	0.123	72.3
HSS19-47-2	0.12	4.26	0.493	20.3	14.1	8.92	0.033	16.8	0.24	0.117	58.8
HSS19-48-1	0.25	8.06	0.72	20.1	16.6	22	0.153	18	0.03 J	0.111	68.8
HSS19-48-2	0.2	5.97	0.734	21.3	17.7	8.91	0.042	18.8	0.17	0.118	60
HSS19-48-3	0.14	2.35	0.521	9.52	8.1	3.52	0.016 J	10.6	0.36	0.058 J	27.1

Notes:

Sediments considered chemically "impacted" and planned for disposal within CAD cell.  
NT = Not Tested  
ND = Not Detected at or above MDL for the particular analyte of interest  
mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)  
µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)

Data Qualifiers:

B = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.  
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.  
NM = The matrix spike sample recovery is not within control limits. See case narrative.

Table B-2b  
Metals

	Antimony (Sb)	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Lead (Pb)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Zinc (Zn)
2001 USACE Data											
Method	EPA 6010B	EPA 7060A	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 7471A	EPA 6010B	EPA 7740	EPA 6010B	EPA 6010B
Reporting Limits	10,000-12,100	1,000-2,200	1,000-1,210	1,000-1,200	2,000-2,400	20,400-24,300	20	4,000-4,850	2,000-2,400	2,060-2,430	2,000-2,400
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-02	ND NM	2800	ND	9900	9600	5,200 B	30	10600	ND	ND	30300
DCPH01-03	ND NM	4000	ND	13800	16000	7,700 B	40	13300	ND	ND	44500
DCPH01-05	ND NM	2800	850 J	8800	6600	5,200 J	20	10400	ND	ND	25100
DCPH01-06	ND NM	2200	790 J	9900	7800	7,500 J	30	9020	ND	ND	27200
DCPH01-07	ND NM	3100	1510	18000	15100	15,000 J	20	16700	ND	ND	48200
DCPH01-08	ND NM	3400	1130	16200	16400	14,500 J	50	14000	ND	ND	51200
DCPH01-09	ND NM	1200	1,110 J	5800	4400	ND	30	5600	ND	ND	16600
DCPH01-10	ND NM	3700	960 J	14300	14600	12,900 J	50	11800	ND	ND	43900
DCPH01-11	ND NM	1500	880 J	9700	5600	6,400 J	20	8470	ND	ND	24400
DCPH01-12	ND NM	1500	1220	11700	8100	6,200 J	30	10100	ND	ND	30100
DCPH01-13	ND NM	3700	600 B	13300	14900	10,000 B	50	11300	ND	ND	43600
DCPH01-15	ND NM	4000	700 B	14000	10400	6,400 B	30	12700	ND	ND	37600
DCPH01-16	ND NM	1700	1070	10000	6300	6,600 J	30	9130	ND	ND	27900
DCPH01-17	ND NM	2800	740 J	10800	5300	6,700 J	20	9150	ND	ND	25000
DCPH01-18	ND NM	2600	ND	11300	4800	6,300 J	20	9330	ND	ND	24300
DCPH01-20	ND NM	2900	ND	12000	5700	7,400 J	20	10700	ND	ND	30400
2002 USACE Data											
Method	EPA 6010B	EPA 7060A	EPA 6010B	EPA 6010B	EPA 6010B	EPA 6010B	EPA 7471A	EPA 6010B	EPA 7740	EPA 6010B	EPA 6010B
Reporting Limits	10,300 - 12,200	2,600 - 3,100	1,000 - 1,200	1,000 - 1,200	2,100 - 2,400	10,000-12,000	20	4,100 - 4,900	2,600 - 3,100	2,100 - 2,400	2,100 - 2,400
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-2A	3100	2700	900	12100	13300	6000	50	8900	500	1100	39900
DCPH-02-2B	3700	700	600	7500	7400	5000	20	6900	600	700	24300
DCPH-02-4A	3200	700	500	5600	6800	4000	20	6500	500	500	22100
DCPH-02-4B	3100	700	500	5300	3000	4000	20	5100	500	600	13700
DCPH-02-5A	3300	3200	500	13600	11300	600	30	11300	500	700	42100
DCPH-02-5B	3600	3200	500	10300	8500	9000	20	9700	500	900	36000
2007 Navy Data											
Method	EPA 6020	EPA 6020	EPA 6020	EPA 6020	EPA 6020	EPA 6020	EPA 7471A	EPA 6020	EPA 6020	EPA 6020	EPA 6020
Reporting Limits	0.07 - 0.12	0.39 - 0.70	0.017 - 0.025	0.16 - 0.27	0.20 - 3.2	0.05 - 1.55	0.018 0.10	0.14 - 0.26	0.080 - 0.16	0.043 - 0.073	2.4 - 28.4
Units	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g	µg/dry g
HSS19-24-1	0.24	4.23	0.361	16.6	38.2	11.8	0.068	16.1	0.34	0.209	107
HSS19-24-2	0.28	5.69	0.892	23.9	36.3	26.7	0.24	20.7	0.37	0.216	109
HSS19-27-1	0.31	4.25	0.403	18.8	33.8	11.6	0.048	16.7	0.32	0.106	71.9
HSS19-27-2	0.18	1.66	0.306	7.3	9.3	4.98	0.047	8.07	0.24	0.07	35.4
HSS19-27-3	0.21	3.46	0.616	17.8	20.3	14.4	0.105	14.4	0.29	0.151	62.6
HSS19-30-1	0.16	4.87	0.372	11	18.1	5.7	0.034	10.7	0.21	0.064	41.1
HSS19-30-2	0.2	3.78	0.386	15.1	26.7	13.1	0.063	14.1	0.22	0.115	72.3



Table B-2b  
Metals

	Antimony (Sb)	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Lead (Pb)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)	Silver (Ag)	Zinc (Zn)
HSS19-35-1	0.06	2.4	0.112	6.96	2.8	2.3	0.011 J	8.57	0.04 J	0.012 J	14.4
HSS19-36-1	0.1	2.1	0.233	11.4	5.7	5.21	0.026	11.2	0.17	0.046 J	27.2
HSS19-36-2	0.07	1.5	0.218	10.5	4.9	4.27	0.014 J	10.5	0.14	0.034 J	25.8
HSS19-36-3	0.11	1.8	0.133	9.26	3.7	3.63	0.012 J	8.59	0.12	0.022 J	20.9
HSS19-38-1	0.21	3.8	0.579	18	15.6	8.11	0.024	19.1	0.58	0.087	56.4
HSS19-38-2	0.1	1.9	0.157	7.06	4	2.8	0.011 J	7.73	0.17	0.029 J	20.2
HSS19-38-3	0.1	2.46	0.187	9.1	5.5	3.38	0.013 J	9.4	0.15	0.023 J	22
HSS19-39-1	0.08	1.81	0.105	7.83	3.8	4.12	0.018 J	6.26	0.08 J	0.021 J	19.4
HSS19-39-2	0.09	2.26	0.165	9.32	5	4.74	0.014 J	7.77	0.12	0.025 J	27.4
HSS19-39-3	0.16	2.42	0.187	9.27	5.4	6.08	0.014 J	8.8	0.11	0.048 J	25.1
HSS19-42-1	0.14	3.8	0.467	18.3	16.2	8.16	0.03	17.6	0.35	0.079	52.9
HSS19-42-2	0.12	3.4	0.375	18	14.2	8.18	0.031	15.8	0.29	0.082	53.4
HSS19-46-1	0.08	2	0.242	9.97	5.3	3.87	0.018 J	9.32	0.15	0.034 J	26.1
HSS19-46-2	0.09	3.2	0.227	11.3	7.3	5.07	0.02	11	0.19	0.051 J	33.4
HSS19-46-3	0.09	2.32	0.205	9.28	5.1	4.2	0.022	8.68	0.16	0.316	23.6
HSS19-49-1	0.07	2.1	0.155	6.09	3.7	3.03	0.013 J	6.59	0.11	0.025 J	18.9
HSS19-49-2	0.1	1.9	0.183	9.53	5.3	3.98	0.03	9.57	0.13	0.049 J	24.9

Notes:

"Clean" sediments considered suitable for capping of CAD cell.

NT = Not Tested

ND = Not Detected at or above MDL for the particular analyte of interest

mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)

µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)

Data Qualifiers:

B = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

NM = The matrix spike sample recovery is not within control limits. See case narrative.

Table B-3a  
PAHs

	Total PAHs	Subtotal - Low molecular weight PAH	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Subtotal - High molecular weight PAH	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
2001 USACE Data																					
Method			EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM		EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM
Reporting Limits			6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7		6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-01	1918	139	ND	ND	23	ND	3 J	6 J	29	78	1779	61	73	110	240	320	300	340	170	55	110
DCPH01-04	39805.3	1345.3	4 J	ND	240	6.8	7.5	37	200	850	38460	7800	16000	3500	4200	2300	1200	1600	1000	260	600
DCPH01-14	1753.4	135.4	ND	ND	19	4 J	4 J	8.4	51	49	1618	130	300	100	180	260	220	220	110	30	68
DCPH01-19	498	44	3 J	ND	ND	ND	ND	3 J	24	14	454	86	80	37	54	46	44	46	31	6 J	25
2002 USACE Data																					
Method			EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM		EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM
Reporting Limits			400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480		400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-1A	2247	77	ND	ND	ND	ND	ND	ND	45	32	2170	82	120	87	180	470	410	420	180	71	150
DCPH-02-1B	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-3A	1858	92	ND	ND	ND	ND	ND	ND	63	29	1766	91	160	79	150	340	340	270	150	56	130
DCPH-02-3B	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-6A	784	73	ND	ND	ND	ND	ND	ND	42	31	711	68	220	47	110	68	91	72	ND	ND	35
DCPH-02-6B	420	0	ND	ND	ND	ND	ND	ND	ND	ND	420	65	79	ND	49	57	74	59	ND	ND	37
DCPH-02-7A	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-7B	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2006 OHD Data																					
Method			EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM		EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM
Reporting Limits			400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480		400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
PH-CS-01-D06	17016		15.8	8.8	56.4	56.8	--	133.0	1100.0	323.0		2510.0	5370.0	878.0	1330.0	1070.0	1130.0	979.0	421.0	122.0	319.0
PH-CS-01-M06	7086		7.1	6.3	23.3	28.4	--	30.2	158.0	118.0		355.0	1730.0	472.0	748.0	730.0	768.0	620.0	285.0	76.2	221.0
PH-CS-02-D06	249		1.4		1.7	1.0	--	1.7	7.2	4.9		19.1	52.7	15.7	26.2	24.6	28.1	20.0	9.3	3.3	7.8
PH-CS-02-M06	15353		6.6	5.5	97.0	13.1	--	38.7	221.0	347.0		586.0	2588.0	659.0	1390.0	1890.0	1990.0	1870.0	926.0	262.0	680.0
2007 Navy Data																					

Table B-3a  
PAHs

	Total PAHs	Subtotal - Low molecular weight PAH	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Subtotal - High molecular weight PAH	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
Method			EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM		EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270 C SIM
Reporting Limits			1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50		1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-02-1	13078	778	12	5.7	59	15	11	45	380	250	12300	1200	1200	720	1400	2700	760	1800	1300	320	900
HSS19-02-2	20250	540	25	6.8	93	7.6	9.2	38	140	220	19710	320	2400	540	1200	5000	1800	3600	2400	650	1800
HSS19-03-1	939	36	0.95 J	0.52 J	4.2	0.32 J	0.42 J	2	11	17	903	19	42	50	120	230	88	170	96	20	68
HSS19-03-2	71	4	0.64 J	ND	0.47 J	ND	0.34 J	0.33 J	1.1 J	1.6 J	66	1.8	3.7	3.1	6.9	17	6.3	12	7.9	1.7	6.0
HSS19-04-1	457	20	0.77 J	0.53	2.6	1.1 J	0.51 J	0.71 J	9.6	4.3	437	36	150	20	30	69	24	46	32	6.0	24
HSS19-04-2	153	9	0.51 J	ND	1.0 J	0.34 J	ND	0.29 J	4.6	2.2	144	18	38	9.1	12	22	7.6	16	11	1.9	8.7
HSS19-06-1	36	3	0.59 J	ND	ND	ND	ND	ND	1.3 J	0.8 J	33	1.6	3.9	1.7	3.3	7.9	3.0	5.2	3.1	0.66 J	2.8
HSS19-06-2	13	2	0.68 J	ND	ND	ND	ND	ND	1.0 J	0.34 J	11	0.96 J	1.6 J	0.77 J	1.7	2.1	0.67 J	1.1 J	0.82 J	ND	0.95 J
HSS19-07-1	1220	36	1.2 J	0.64 J	4.2	1.2 J	0.93 J	2.1 J	12	14	1184	78	470	35	46	170	58	120	100	23	84
HSS19-07-2	268	15	1.1 J	0.52 J	1.4 J	0.49 J	0.55 J	0.82 J	5.0	4.8	253	24	82	12	25	43	15	27	13	3.1	9.3
HSS19-07-3	5	2	0.75 J	ND	ND	ND	ND	ND	0.81 J	ND	3	0.97 J	0.89 J	0.5 J	0.57 J	ND	ND	ND	ND	ND	0.42 J
HSS19-08-1	467	21	2.5	0.69	2.6	0.56 J	0.65 J	1.5 J	5.3	7.3	446	11	27	16	36	110	42	92	56	14	42
HSS19-08-2	3303	72	3.9	1.0 J	10	1.0 J	1.3 J	4.0	15	36	3231	240	810	180	420	460	210	440	240	61	170
HSS19-09-1	3396	237	3.2	2.4	34	4.2	3.7	12	97	80	3159	230	210	210	450	670	250	470	350	79	240
HSS19-09-2	791	29	1.1 J	0.58 J	4.1	0.48 J	0.48 J	1.5 J	10	11	762	20	27	35	72	180	69	150	110	23	76
HSS19-11-1	16	3	0.63 J	0.45 J	ND	ND	ND	ND	1.7 J	0.32 J	13	1.1 J	1.0 J	0.96 J	2.0 J	2.6	0.92 J	1.4 J	1.2 J	0.48 J	1.3 J
HSS19-11-2	23	9	0.97 J	0.71 J	ND	0.3 J	0.6 J	0.76 J	5.1	0.72 J	14	2.6	2.0 J	0.89 J	1.5 J	2.3 J	1.1 J	1.5 J	1.0 J	ND	1.1 J
HSS19-11-3	32	9	0.97 J	1.1 J	ND	ND	0.41 J	0.42 J	5.1	0.85 J	23	3.4	3.8	1.5 J	2.5	3.8	1.3 J	1.5 J	1.7 J	0.7 J	2.6
HSS19-12-1	3478	160	6.5	2.1 J	20	2.2 J	2.1 J	8.9	48	70	3318	58	380	180	380	630	280	580	410	120	300
HSS19-12-2	2136	78	5.6	1.7 J	12	1.5 J	1.7 J	5.9	19	31	2058	37	230	77	180	450	180	380	260	74	190
HSS19-12-3	761	31	4.6	1.3 J	3.1	0.86 J	1.1 J	2.9	7.5	9.2	730	13	73	22	39	190	87	140	82	20	64
HSS19-13-1	6334	474	6.7	4.9	75	8.9	7.1	21	160	190	5860	400	570	350	720	1400	410	930	540	150	390
HSS19-13-2	512	33	1.0 J	0.91 J	5.3	0.63 J	0.57 J	1.3 J	10	13	479	25	24	22	48	120	45	81	57	14	43
HSS19-14-1	10944	924	7.6	5	200	14	10	37	250	400	10020	690	1600	600	1300	2000	790	1400	790	240	610
HSS19-14-2	1762	106	2.6	1.7 J	19	1.8 J	1.6 J	4.8	35	39	1656	97	200	89	180	350	130	250	180	50	130
HSS19-14-3	50	7	0.65 J	0.72 J	0.35 J	ND	ND	0.31 J	3.4	1.3 J	43	2.5	5.4	1.9 J	4	10	4.4	5.5	4.1	1.2 J	3.9
HSS19-15-1	3379	291	4.2	3.6	42	4.9	4.3	12	100	120	3088	250	270	210	460	630	230	430	310	78	220
HSS19-15-2	563	28	1.2 J	0.86 J	4.1	0.51 J	0.5 J	1.2 J	8.7	11	535	14	20	23	50	130	51	100	73	18	56
HSS19-16-1	5071	441	5.8	4.2	58	6.6	6.6	20	160	180	4630	360	440	300	660	1100	330	630	410	110	290
HSS19-16-2	5818	338	6.4	4.2	52	6.2	5.6	14	110	140	5480	280	290	270	540	1500	440	1000	580	150	430
HSS19-17-1	2897	217	6.2	2.7	29	5.1	4.4	11	81	78	2680	230	360	160	300	510	200	370	280	70	200
HSS19-17-2	19276	1516	8.9	12	320	13	16	56	300	790	17760	2200	4500	1000	2000	3000	1100	2000	1000	280	680

Table B-3a  
PAHs

	Total PAHs	Subtotal - Low molecular weight PAH	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Subtotal - High molecular weight PAH	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
HSS19-18-1	2629	223	3.4	3.1	32	3.6	3.9	9.7	92	75	2406	220	370	150	330	460	160	300	210	56	150
HSS19-18-2	523	29	0.96 J	0.6 J	4.7	0.75 J	0.52 J	1.6 J	10	9.9	494	19	23	22	43	120	47	90	66	15	49
HSS19-18-3	15	1	ND	ND	ND	ND	ND	ND	0.84 J	ND	14	0.93 J	0.94 J	0.89 J	1.2 J	2.1 J	1.2 J	0.97 J	2 J	1.1 J	2.4 J
HSS19-19-1	3693	332	3.2	2.8	50	5.1	4.3	17	120	130	3361	260	420	270	590	630	220	440	270	71	190
HSS19-19-2	5201	391	3.6	3.0	77	4.6	4.4	18	120	160	4810	320	660	310	690	1000	360	680	410	110	270
HSS19-20-1	5600	230	3.8	2.1	28	2.6	2.8	12	79	100	5370	150	260	300	640	1300	490	1000	600	160	470
HSS19-20-2	10	1	0.58 J	ND	ND	ND	ND	ND	0.59 J	ND	9	0.56 J	0.92 J	0.51 J	1.2 J	1.7	0.53 J	1.2 J	1.0 J	0.38 J	0.96 J
HSS19-21-1	4818	361	4.3	2.2	28	4.8	5.1	27	150	140	4457	310	370	320	730	900	330	660	430	97	310
HSS19-21-2	3615	104	2.3	0.9 J	15	1.2 J	1.3 J	4.7	30	49	3511	66	320	220	410	760	320	670	390	95	260
HSS19-22-1	3045	134	2.5	1.4 J	15	2	1.8	6.9	44	60	2911	94	540	150	310	580	220	450	290	77	200
HSS19-22-2	88	5	0.62 J	0.44	0.64 J	0.21 J	0.22 J	ND	1.9	1.5 J	83	2.0	12	3.7	8.3	19	6.8	13	9.3	1.9	7.3
HSS19-23-1	18199	1419	7.6	4.9	350	16	10	40	290	700	16780	1300	4400	790	1600	3200	1200	2200	1100	270	720
HSS19-23-2	404	25	0.79 J	ND	6.1	0.37 J	0.29 J	0.86 J	6.4	10	380	20	84	18	38	75	28	51	34	7.5	24
HSS19-23-3	16	2	0.62 J	ND	ND	ND	ND	ND	1.2 J	0.49 J	14	1.5 J	3.5	0.74 J	1.4 J	2.7	1.1 J	1.2 J	1 J	ND	0.99 J
HSS19-25-1	5154	326	6.2	4.5	70	6.2	5.8	11	92	130	4828	340	1400	180	400	990	300	550	340	88	240
HSS19-25-2	3876	203	7.7	3.6	25	5.3	6.6	13	63	79	3673	240	920	230	410	610	230	440	300	83	210
HSS19-26-1	22917	2827	72	25	210	110	90	140	1600	580	20090	5000	4300	1400	2600	2500	930	1500	940	250	670
HSS19-26-2	4767	346	2.9	2.3 J	57	2.5 J	2.8	12	76	190	4421	260	600	380	650	930	320	610	350	81	240
HSS19-28-1	4731	273	4.3	3.2	49	5.5	4.6	9.6	87	110	4458	320	1400	150	380	910	240	500	280	78	200
HSS19-28-2	3036	138	4.1	2.5	27	1.9 J	2.2 J	5.8	39	55	2898	120	410	130	220	660	230	490	320	88	230
HSS19-28-3	2893	150	4.5	3	25	2.5	2.9	7.9	48	56	2743	110	190	120	210	780	280	440	310	73	230
HSS19-29-1	5800	460	4.2	2.5	95	6.4	4.9	17	140	190	5340	380	1100	290	690	1000	350	680	440	120	290
HSS19-29-2	2741	282	6.8	3	31	9.4	6.8	16	140	69	2459	350	350	190	310	390	150	290	220	49	160
HSS19-29-3	7028	502	3	2.4 J	17	3.1	5.7	31	140	300	6526	370	1700	630	1200	1100	370	550	310	86	210
HSS19-31-1	6483	403	3.8	3.6	68	6.2	7.4	14	160	140	6080	490	1600	230	590	1300	380	720	400	100	270
HSS19-31-2	3337	284	8.6	5.8	29	20	10	21	110	80	3053	280	260	200	370	650	240	440	310	83	220
HSS19-32-1	7935	518	5	3.6	75	8.3	7.6	18	130	270	7417	1100	1900	520	910	1100	380	730	410	97	270
HSS19-32-2	2349	237	11	4.2	18	9.6	7.4	15	120	52	2112	230	230	140	240	410	150	280	220	52	160
HSS19-33-1	2914	166	4.4	3.0	31	3.5	3.3	6.4	54	60	2748	150	540	110	230	620	210	400	250	68	170
HSS19-33-2	1939	87	2.2 J	1.9 J	14	1.4 J	1.5 J	3.5	32	30	1852	180	190	120	180	380	130	270	200	52	150
HSS19-33-3	112	6	0.57 J	ND	0.89 J	ND	ND	0.33 J	2.4 J	2.1 J	106	6.2	12	5.7	7.6	26	12	15	10	2.6	8.5
HSS19-34-1	1652	108	2.1	1.6 J	18	2.0 J	1.8 J	4.6	37	41	1544	130	290	83	190	310	110	200	120	26	85
HSS19-34-2	1351	84	3.2	1.7 J	12	2.2 J	1.6 J	3.1	38	22	1267	120	230	65	110	250	91	170	120	27	84
HSS19-37-1	156	22	4.6	2.5	0.5 J	0.67 J	1.0 J	0.98 J	10	2.2 J	134	21	21	10	15	21	7.4	15	11	2.5	10
HSS19-37-2	39	11	2.2 J	1.2 J	ND	0.29 J	0.53 J	0.47 J	2.3 J	3.3	28	3.0	4	1.6 J	8.7	3.3	1.2 J	2.1 J	1.5 J	0.56 J	2.1 J
HSS19-40-1	330	36	4.0	3.0	0.55 J	1.3 J	1.2 J	1.3 J	19	6.1	294	48	100	22	30	31	11	22	14	3.6	12
HSS19-40-2	683	44	4.1	3.6	3.5	1.3 J	1.6 J	1.8 J	19	9	639	97	120	43	65	110	43	69	47	11	34

Table B-3a  
PAHs

	Total PAHs	Subtotal - Low molecular weight PAH	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Subtotal - High molecular weight PAH	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
HSS19-41-1	660	92	5.1	3.9	1.5 J	2.3 J	2.3 J	3.5	28	45	569	81	92	42	90	79	30	65	45	9.8	35
HSS19-41-2	148	17	2.4 J	1.6 J	0.88 J	0.51 J	0.72 J	0.75 J	7.6	2.7	131	14	17	9.2	15	25	8.3	16	12	3.5	11
HSS19-41-3	132	17	1.1 J	0.99 J	0.59 J	0.26 J	0.35 J	0.62 J	6.1	6.5	116	10	13	7.5	18	20	11	15	9.9	2.8	8.5
HSS19-43-1	396	64	6.7	4.3	0.66 J	2.9	2.9	4.0	31	12	331	75	58	26	34	39	14	30	26	6.1	23
HSS19-43-2	365	45	3.9	3.9	0.82 J	1.6 J	1.6 J	2.1 J	24	6.9	320	61	57	25	37	43	15	32	22	6.9	21
HSS19-44-1	259	27	3.8	3.4	0.85 J	0.64 J	1.1 J	1.2 J	9.6	6.5	232	39	32	19	27	34	12	27	20	5.0	17
HSS19-44-2	211	26	4.2	3.5	0.67 J	0.61 J	1.0 J	1.2 J	11	4	185	27	31	16	21	28	9.1	21	14	4.1	14
HSS19-44-3	42	10	1.3 J	0.99 J	ND	ND	0.34 J	0.5 J	3.3	3.1	32	4.9	5.9	2.1 J	3	6.1	2.7	2.7	2.1 J	0.62 J	2.2 J
HSS19-45-1	261	37	4.2	3.3	0.78 J	1.9 J	1.7 J	2.3 J	18	5.1	223	51	42	16	21	30	9.7	20	16	3.6	14
HSS19-45-2	341	29	4.0	3.0	1.6 J	0.62 J	0.99 J	1.2 J	13	4.8	312	40	43	20	37	58	21	38	27	6.5	21
HSS19-47-1	247	40	3.9	3.0	0.43 J	2.5	1.9 J	2.9	20	5.2	208	46	39	15	21	27	8.7	19	14	3.9	14
HSS19-47-2	172	22	3.8	3.0	0.41 J	0.83 J	1.1 J	0.94 J	9.4	2.3 J	150	29	27	11	15	20	6.6	15	11	3.8	12
HSS19-48-1	227	26	3.9	3.7	0.95 J	1.7 J	1.3 J	1.5 J	8.9	3.9	201	37	39	15	24	26	8.8	16	12	3.4	20
HSS19-48-2	192	24	3.1	2.1 J	0.6 J	1.6 J	1.0 J	1.3 J	9.9	4.8	168	31	29	17	27	22	7.4	14	9.1	2.7	8.6
HSS19-48-3	9	4	0.69 J	0.56 J	ND	ND	ND	ND	2 J	0.47 J	5	1.1 J	1.1 J	0.55 J	0.59 J	0.84 J	ND	ND	0.39 J	ND	0.78 J

Notes:  
Sediments considered chemically "impacted" and planned for disposal within CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)  
µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)  
"--" = not tested

Data Qualifiers:  
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Table B-3b  
PAHs

	Total PAHs	Subtotal - Low molecular weight PAH	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Subtotal - High molecular weight PAH	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
2001 USACE Data																					
Method			EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM		EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM
Reporting Limits			6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7		6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7	6.0-6.7
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-02	780	29	ND	ND	5 J	ND	ND	ND	11	13	751	23	30	28	55	170	140	140	77	22	66
DCPH01-03	319.3	16.1	ND	ND	4 J	ND	ND	ND	5 J	7.1	303.2	11	16	12	22	64	56	61	29	9.2	23
DCPH01-05	264.5	10	ND	ND	2 J	ND	ND	ND	4 J	4 J	254.5	42	51	18	45	30	32	18	11	ND	7.5
DCPH01-06	182.6	9	ND	ND	ND	ND	ND	ND	4 J	5 J	173.6	8.6	12	11	21	30	28	29	17	4 J	13
DCPH01-07	36.4	0	ND	ND	ND	ND	ND	ND	ND	ND	36.4	2 J	3 J	3 J	4 J	6.4	6 J	6 J	3 J	ND	3 J
DCPH01-08	766.2	34.2	ND	ND	7.2	ND	ND	ND	12	15	732	26	38	31	59	150	120	140	83	30	55
DCPH01-09	134.2	7	ND	ND	ND	ND	ND	ND	4 J	3 J	127.2	7.7	14	6	9.5	20	18	21	15	5 J	11
DCPH01-10	687	35	ND	ND	6 J	ND	ND	2 J	12	15	652	29	43	28	47	130	120	120	66	23	46
DCPH01-11	79	0	ND	ND	ND	ND	ND	ND	ND	ND	79	3 J	23	4 J	5 J	12	11	11	6 J	ND	4 J
DCPH01-12	423.5	55.2	ND	ND	3 J	ND	3 J	8.2	28	13	368.3	52	87	21	35	48	41	39	22	8.3	15
DCPH01-13	2009.2	121.2	ND	ND	14	4 J	3 J	7.2	36	57	1888	240	240	120	190	280	260	300	130	37	91
DCPH01-15	307.4	22	ND	ND	6 J	ND	ND	ND	6 J	10	285.4	19	27	17	31	50	45	44	25	8.4	19
DCPH01-16	238.3	15.3	ND	ND	2 J	ND	ND	ND	6.4	6.9	223	16	24	13	22	38	36	33	21	5 J	15
DCPH01-17	61.4	6	ND	ND	ND	ND	ND	ND	3 J	3 J	55.4	11	9.4	5 J	7	6 J	6 J	5 J	3 J	ND	3 J
DCPH01-18	64.2	3	ND	ND	ND	ND	ND	ND	3 J	ND	61.2	11	9.5	5 J	6 J	6 J	6 J	6.7	6 J	ND	5 J
DCPH01-20	68	4	ND	ND	ND	ND	ND	ND	4 J	ND	64	17	14	3 J	8.6	6.4	5 J	4 J	3 J	ND	3 J
2002 USACE Data																					
Method			EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM		EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM
Reporting Limits			400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480		400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-2A	932	41	ND	ND	ND	ND	ND	ND	23	18	891	36	63	45	88	180	170	150	87	ND	72
DCPH-02-2B	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-4A	278	18	ND	ND	ND	ND	ND	ND	ND	18	260	34	ND	30	62	48	49	37	ND	ND	ND
DCPH-02-4B	0	0	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-5A	1594	214	ND	ND	ND	ND	ND	ND	64	150	1380	210	220	150	230	120	150	170	75	ND	55
DCPH-02-5B	416	37	ND	ND	ND	ND	ND	ND	37	ND	379	46	94	33	41	45	48	43	ND	ND	29
2007 Navy Data																					

Table B-3b  
PAHs

	Total PAHs	Subtotal - Low molecular weight PAH	Naphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Dibenzofuran	Fluorene	Phenanthrene	Anthracene	Subtotal - High molecular weight PAH	Fluoranthene	Pyrene	Benz(a)anthracene	Chrysene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(a)pyrene	Indeno(1,2,3-cd)pyrene	Dibenz(a,h)anthracene	Benzo(g,h,i)perylene
Method			EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM		EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270C SIM	EPA 8270 C SIM
Reporting Limits			1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50		1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50	1.6 - 50
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-24-1	2091	161	2.5	2.2 J	31	2.4 J	2.4 J	6.6	50	64	1930	120	210	120	250	420	150	280	190	50	140
HSS19-24-2	8135	1115	40	12	35	64	57	67	710	130	7020	1100	730	430	680	1300	450	960	680	190	500
HSS19-27-1	1335	98	2.5 J	2.1 J	16	2.1 J	1.9 J	4.6	35	34	1237	100	160	74	160	260	89	160	120	31	83
HSS19-27-2	374	25	0.95 J	0.58 J	4.4	0.44 J	0.41 J	1.1 J	8.1	8.6	349	17	17	17	35	85	33	57	44	12	32
HSS19-27-3	1177	82	3.2	2.4 J	7.4	2.3 J	2 J	4.4	35	25	1095	60	72	49	82	300	110	160	130	32	100
HSS19-30-1	956	287	3.3	9.3	10	1.2 J	9.5	26	68	160	669	56	90	38	84	140	48	89	63	16	45
HSS19-30-2	2074	168	3.4	3.5	36	4.5	ND	0.52 J	39	82	1906	120	380	73	130	400	150	270	180	63	140
HSS19-35-1	9	3	1.7 J	0.45 J	ND	ND	ND	ND	0.71 J	ND	6	1.6 J	1.7 J	0.74 J	0.47 J	0.75 J	ND	0.35 J	0.29 J	ND	0.48 J
HSS19-36-1	63	7	2.2 J	1.1 J	ND	ND	0.28 J	ND	2.9	0.47 J	56	9.0	13	4.0	4.9	6.7	2.0 J	4.7	5.1	1.0 J	5.4
HSS19-36-2	192	21	2.6	1.3 J	ND	1.3 J	0.74 J	1.2 J	12	1.8 J	171	42	36	12	16	21	7.1	13	12	2.3 J	10
HSS19-36-3	29	4	0.75 J	0.64 J	ND	0.3 J	ND	ND	1.4 J	0.48 J	25	4.1	7.1	1.8 J	1.9 J	3.2	1.6 J	1.5 J	1.8 J	0.51 J	1.8 J
HSS19-38-1	613	113	7.6	3.5	0.85 J	6.9	4.7	8.7	60	21	500	110	77	43	50	65	24	50	40	7.8	33
HSS19-38-2	22	6	2.1 J	1.0 J	ND	ND	0.29 J	0.25 J	1.8 J	0.29 J	16	2.5	2.9	1.2 J	1.4 J	2.9	0.79 J	1.5 J	1.1 J	0.48 J	1.6 J
HSS19-38-3	9	2	0.58 J	ND	ND	ND	ND	ND	1.4 J	0.37 J	7	0.86 J	0.86 J	0.75 J	1.3 J	1 J	0.56 J	0.46 J	0.5 J	ND	0.61 J
HSS19-39-1	32	5	1.4 J	0.87 J	ND	ND	0.23 J	ND	1.5 J	0.72 J	27	3.0	4.7	2.3 J	3.1	4.9	1.5 J	2.9	2.1 J	0.83 J	2.0 J
HSS19-39-2	42	8	2.3 J	1.1 J	ND	ND	0.47 J	0.33 J	2.7	0.79 J	34	4.8	5.7	3.4	3.8	5.8	2.3 J	3.1	2.2 J	0.68 J	2.2 J
HSS19-39-3	86	9	1.3 J	1.2 J	ND	0.75 J	0.36 J	0.37 J	3.6	1.1 J	78	8.6	11	5.9	7.8	14	7.4	7.7	7	1.6 J	6.6
HSS19-42-1	320	31	4.5	2.2 J	0.86 J	0.76 J	1.0 J	1.6 J	12	8.4	289	36	40	25	60	43	16	28	18	4.6	18
HSS19-42-2	341	34	3.6	2.8	1.3 J	1.1 J	1.2 J	1.5 J	17	5.7	306	42	44	23	32	58	20	35	26	5.4	21
HSS19-46-1	29	6	2.2 J	1.3 J	ND	ND	0.33 J	ND	2.0 J	0.35 J	23	3.1	3.2	1.8 J	1.4 J	5.2	1.5 J	2.6	1.7 J	0.49 J	2.3 J
HSS19-46-2	148	17	3.1	2.1 J	0.4 J	0.88 J	0.77 J	0.69 J	7.0	2.1 J	131	22	26	11	13	19	6.5	12	10	2.0 J	9.2
HSS19-46-3	40	5	0.91 J	0.8 J	ND	ND	ND	ND	2.4 J	0.83 J	35	5.3	7.3	1.7 J	2.3 J	6.1	3.5	3.3	2.5 J	0.61 J	2.8
HSS19-49-1	22	5	2.0 J	0.81 J	ND	ND	0.28 J	ND	1.4 J	0.4 J	17	3.4	3.8	1.6 J	1.3 J	2.5	0.85 J	1.3 J	0.83 J	ND	1.2 J
HSS19-49-2	77	8	2.0 J	0.94 J	0.45 J	0.21 J	0.3 J	0.29 J	2.7	1.1 J	69	5.4	7.5	4.0	6.2	16	5.5	9.6	7.3	1.6 J	6.3

Notes:  
"Clean" sediments considered suitable for capping of CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)  
µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)  
"--" = not tested

Data Qualifiers:  
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL

Table B-4a  
Pesticides

	Total Chlorinated Pesticides	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma-Chlordane	Endosulfan I	alpha-Chlordane	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endrin Aldehyde	Endosulfan Sulfate	4,4'-DDT	Endrin Ketone	Methoxychlor	Toxaphene	Total DDT
2001 USACE Data																							
Method		EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	
Reporting Limits		1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-2.1	1.2-1.4	1.2-5.4	1.2-3.9	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	61-68	
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-01	14.8	ND I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND I	ND	4.9	ND	ND I	3.0 P	ND	ND	ND	14.8
DCPH01-04	12.6	ND I	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND	3.7	ND I	ND	7.1	ND	ND	1.8 P	ND	ND	ND	12.6
DCPH01-14	6.4	ND I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.3	ND I	ND I	2.3	ND	ND	0.8 J P	ND	ND	ND	6.4
DCPH01-19	39.8	ND	ND	ND	ND	ND	ND	ND	ND I	ND I	ND	ND I	19	ND I	ND I	7	ND	1.8	12	ND	ND	ND	38
2002 USACE Data																							
Method		EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	
Reporting Limits		1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 30	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 27	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 17	1.3 - 28	1.3 - 14	1.3 - 14	61-660	
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-1A	17.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.7	ND	ND	9.8	ND	ND	ND	ND	ND	ND	17.5
DCPH-02-1B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
DCPH-02-3A	15.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.5	ND	ND	9.4	ND	ND	ND	ND	ND	ND	15.9
DCPH-02-3B	0.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.58	ND	ND	ND	ND	ND	ND	0.58
DCPH-02-6A	28.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	19	ND	ND	5.5	ND	ND	ND	4.1	ND	ND	24.5
DCPH-02-6B	7.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.7	ND	ND	ND	ND	ND	ND	7.7
DCPH-02-7A	8.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.6	ND	ND	3.5	ND	ND	ND	ND	ND	ND	8.1
DCPH-02-7B	12.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.1	ND	ND	7.4	ND	ND	ND	ND	ND	ND	12.5
2006 OHD Data																							
Method													EPA 8270Cm				EPA 8270C m						EPA 8270C m
Reporting Limits													1				1						
Units													µg/kg				µg/kg						µg/kg
PH-CS-01-D06													13.5				24.5						48.599 99847
PH-CS-01-M06													4.4										4.4000 00095
PH-CS-02-D06																							0
PH-CS-02-M06													11.7				8.3						20
2007 Navy Data																							
Method		EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	



Table B-4a  
Pesticides

	Total Chlorinated Pesticides	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma-Chlordane	Endosulfan I	alpha-Chlordane	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endrin Aldehyde	Endosulfan Sulfate	4,4'-DDT	Endrin Ketone	Methoxychlor	Toxaphene	Total DDT
Reporting Limits		0.99 - 5.0	0.84 - 12	0.99 - 9.6	0.84 - 5.0	0.84 - 5.0	0.84 - 5.0	0.84 - 5.0	0.96 - 5.2	0.84 - 5.4	0.84 - 5.0	0.99 - 9.5	0.84 - 8.7	0.96 - 30	0.84 - 5.0	0.84 - 10	0.84 - 14	0.84 - 5.0	0.99 - 44	0.84 - 5.6	0.99 - 7.4	61-660	
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-02-1	51	ND	ND	ND	ND	ND	ND	5	20	ND	ND	ND	18	2.8	ND	10	ND	ND	ND	ND	ND	ND	28
HSS19-02-2	367	ND	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	57	ND	ND	310	ND	ND	ND	ND	ND	ND	367
HSS19-03-1	6	ND	ND	ND	ND	ND	ND	0.86	--	ND	ND	ND	2.1	ND	ND	1.3	ND	ND	2.6	ND	ND	ND	6
HSS19-03-2	1	ND	ND	ND	ND	ND	ND	0.17	--	ND	ND	ND	0.25 J	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	1
HSS19-04-1	1	ND	ND	0.61 J	ND	ND	ND	0.17	--	ND	ND	ND	0.45 J	ND	ND	0.36 J	ND	ND	ND	ND	ND	ND	1
HSS19-04-2	1	ND	ND	ND	ND	ND	ND	0.16	--	ND	ND	ND	0.31 J	ND	ND	0.41 J	ND	ND	ND	ND	ND	ND	1
HSS19-06-1	0	ND	ND	ND	ND	ND	ND	0.27	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
HSS19-06-2	0	ND	ND	ND	ND	ND	ND	0.16	--	ND	ND	ND	ND	ND	ND	ND	0.092 J	ND	ND	ND	ND	ND	0
HSS19-07-1	7	ND	ND	ND	ND	ND	ND	0.8	1.5	1.5	ND	ND	1.1	ND	ND	3.1	ND	ND	ND	ND	ND	ND	4
HSS19-07-2	3	ND	ND	ND	ND	ND	ND	0.78	1.4	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	ND	ND	1
HSS19-07-3	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
HSS19-08-1	6	ND	ND	ND	ND	ND	ND	0.84	0.77	ND	ND	ND	1.2	ND	ND	2.4	ND	ND	2.0	ND	ND	ND	6
HSS19-08-2	5	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	1.1	ND	ND	2.5	ND	ND	1.6	ND	ND	ND	5
HSS19-09-1	38	ND	ND	ND	ND	ND	ND	0.99	--	ND	ND	ND	14	1.2	ND	5.0	ND	ND	18	ND	ND	ND	37
HSS19-09-2	3	ND	ND	ND	ND	ND	ND	U	--	ND	ND	ND	1.8	ND	ND	1.3	ND	ND	ND	ND	ND	ND	3
HSS19-11-1	0	ND	ND	ND	ND	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
HSS19-11-2	0	ND	ND	ND	ND	ND	ND	0.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
HSS19-11-3	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
HSS19-12-1	20	ND	ND	ND	ND	ND	ND	0.94	ND	ND	ND	ND	4.7	ND	ND	8.9	ND	ND	6.1	ND	ND	ND	20
HSS19-12-2	13	ND	ND	ND	ND	ND	ND	0.82	1.4	ND	ND	ND	2.0	ND	ND	5.6	ND	ND	4.1	ND	ND	ND	12
HSS19-12-3	5	ND	ND	ND	ND	ND	ND	ND	0.55 J	ND	ND	ND	1.4	ND	ND	3.3	ND	ND	1.6	ND	ND	ND	6
HSS19-13-1	52	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	20	ND	ND	7.9	ND	ND	24	ND	ND	ND	52
HSS19-13-2	6	ND	ND	ND	ND	ND	ND	0.84	1.7	ND	ND	ND	2.6	ND	ND	1.2	ND	ND	ND	ND	ND	ND	4
HSS19-14-1	62	ND	ND	ND	ND	ND	ND	1.6	ND	ND	1.2	ND	21	ND	ND	8.7	ND	ND	31	ND	ND	ND	61
HSS19-14-2	14	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	4.7	ND	ND	4.2	ND	ND	5.3	ND	ND	ND	14
HSS19-14-3	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28 J	ND	ND	0.39 J	ND	ND	0.5 J	0.2 J	ND	ND	1
HSS19-15-1	48	ND	ND	ND	ND	ND	ND	1.1	7.2	ND	ND	ND	17	ND	ND	7.1	ND	ND	17	ND	ND	ND	41
HSS19-15-2	22	ND	ND	ND	ND	ND	ND	0.84	3.7	ND	ND	ND	4.6	ND	ND	5.2	ND	ND	8.9	ND	ND	ND	19
HSS19-16-1	62	ND	ND	ND	ND	ND	ND	1.2	10	ND	ND	ND	20	ND	ND	6.9	ND	ND	25	ND	ND	ND	52
HSS19-16-2	77	ND	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	24	ND	ND	12	ND	ND	41	ND	ND	ND	77
HSS19-17-1	39	ND	ND	ND	ND	ND	ND	0.84	ND	ND	ND	ND	13	ND	ND	11	ND	ND	15	ND	ND	ND	39
HSS19-17-2	44	ND	4.8	ND	ND	ND	ND	1.4	ND	ND	ND	ND	12	ND	ND	8	ND	ND	19	ND	ND	ND	39
HSS19-18-1	25	ND	ND	ND	ND	ND	ND	1	4.5	ND	ND	ND	9.7	ND	ND	3.6	ND	ND	7.1	ND	ND	ND	20
HSS19-18-2	14	ND	ND	ND	ND	ND	ND	0.16	1.5	ND	ND	ND	2.9	ND	ND	6.5	ND	ND	3.2	ND	ND	ND	13
HSS19-18-3	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Table B-4a  
Pesticides

	Total Chlorinated Pesticides	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma-Chlordane	Endosulfan I	alpha-Chlordane	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endrin Aldehyde	Endosulfan Sulfate	4,4'-DDT	Endrin Ketone	Methoxychlor	Toxaphene	Total DDT
HSS19-19-1	23	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	8.7	ND	ND	3	ND	ND	11	ND	ND	ND	23
HSS19-19-2	42	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	22	ND	ND	5.2	ND	ND	15	ND	ND	ND	42
HSS19-20-1	40	ND	ND	ND	ND	ND	ND	1.2	--	ND	ND	ND	12	ND	ND	6.9	ND	ND	21	ND	ND	ND	40
HSS19-20-2	0	ND	ND	ND	ND	ND	ND	0.17	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
HSS19-21-1	36	ND	ND	ND	0.36 J	ND	ND	0.99	--	ND	0.84 J	ND	12	ND	ND	5.4	ND	ND	17	ND	ND	ND	34
HSS19-21-2	7	ND	ND	ND	ND	ND	0.32 J	0.71	--	ND	ND	ND	2.9	ND	ND	4.2	ND	ND	ND	ND	ND	ND	7
HSS19-22-1	12	ND	ND	ND	0.44 J	ND	ND	1	--	ND	ND	ND	4.5	ND	ND	6.7	ND	ND	ND	ND	ND	ND	11
HSS19-22-2	0	ND	ND	ND	ND	ND	ND	0.17	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
HSS19-23-1	35	ND	ND	ND	ND	ND	ND	2.6	ND	ND	ND	ND	13	ND	ND	6.3	ND	ND	16	ND	ND	ND	35
HSS19-23-2	1	ND	ND	ND	ND	ND	ND	0.18	ND	ND	ND	ND	0.57 J	ND	ND	0.81 J	ND	ND	ND	ND	ND	ND	1
HSS19-23-3	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
HSS19-25-1	24	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	10	ND	ND	3.6	ND	ND	10	ND	ND	ND	24
HSS19-25-2	21	ND	ND	ND	0.80 J	ND	ND	1	ND	ND	ND	ND	6.9	ND	ND	3.8	ND	ND	9.1	ND	ND	ND	20
HSS19-26-1	37	ND	2.2	ND	ND	ND	ND	1.4	ND	ND	ND	ND	13	ND	ND	4.3	ND	ND	12	5.0	ND	ND	29
HSS19-26-2	24	ND	1.3	ND	ND	ND	ND	0.96	ND	ND	ND	ND	13	ND	ND	9.9	ND	ND	ND	ND	ND	ND	23
HSS19-28-1	18	ND	ND	ND	0.66 J	ND	ND	0.88	ND	ND	ND	ND	6.8	ND	ND	1.9	ND	ND	6	1.6	ND	ND	15
HSS19-28-2	27	ND	ND	ND	0.55 J	ND	ND	1	5.2	ND	ND	ND	13	ND	ND	8.7	ND	ND	ND	ND	ND	ND	22
HSS19-28-3	60	ND	ND	ND	1.1	ND	ND	ND	9.9	ND	ND	ND	14	ND	ND	12	ND	ND	26	ND	ND	ND	52
HSS19-29-1	31	ND	ND	ND	ND	ND	ND	1.3	ND	ND	ND	ND	16	ND	ND	4.0	ND	ND	11	ND	ND	ND	31
HSS19-29-2	44	ND	ND	ND	ND	ND	ND	1.1	9	ND	ND	ND	13	ND	ND	6.9	ND	ND	15	ND	ND	ND	35
HSS19-29-3	40	ND	ND	ND	ND	ND	ND	ND	7.9	ND	ND	ND	8.1	ND	ND	3.4	ND	ND	15	ND	ND	ND	27
HSS19-31-1	21	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	6.9	ND	ND	2.6	ND	ND	7.2	4.7	ND	ND	17
HSS19-31-2	28	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	10	ND	ND	4.6	ND	ND	13	ND	ND	ND	28
HSS19-32-1	20	ND	ND	ND	ND	ND	ND	0.8	ND	ND	ND	ND	10	ND	ND	2.8	ND	ND	7.5	ND	ND	ND	20
HSS19-32-2	32	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	10	ND	ND	7.0	ND	ND	15	ND	ND	ND	32
HSS19-33-1	22	ND	ND	ND	ND	ND	ND	1	4.4	ND	ND	ND	6.8	ND	ND	2.5	ND	ND	8.2	ND	ND	ND	18
HSS19-33-2	22	ND	ND	ND	0.43 J	ND	ND	1	ND	ND	ND	ND	6.5	ND	ND	5.5	ND	ND	9.9	ND	ND	ND	22
HSS19-33-3	11	ND	ND	ND	ND	ND	ND	ND	0.62 J	ND	ND	ND	0.75 J	ND	ND	0.64 J	ND	ND	1.4	ND	ND	ND	3
HSS19-34-1	12	ND	ND	ND	ND	ND	ND	0.43	ND	ND	ND	ND	3.9	ND	ND	1.6	ND	ND	5.2	1.0	ND	ND	11
HSS19-34-2	19	ND	ND	ND	ND	ND	ND	0.99	ND	ND	ND	ND	4.5	ND	ND	3.9	ND	ND	11	ND	ND	ND	19
HSS19-37-1	18	ND	ND	ND	ND	ND	ND	0.89	3.7	ND	ND	ND	6.4	ND	ND	2.2	ND	ND	5.4	ND	ND	ND	14
HSS19-37-2	17	ND	ND	ND	ND	ND	ND	0.88	4.2	ND	ND	ND	4.1	ND	ND	ND	0.83	ND	7.6	ND	ND	ND	12
HSS19-40-1	46	ND	ND	ND	ND	ND	ND	5	11	ND	ND	ND	14	ND	ND	3.3	ND	ND	18	ND	ND	ND	35
HSS19-40-2	81	ND	ND	ND	ND	ND	ND	4.9	22	ND	ND	ND	10	ND	ND	5.2	ND	ND	44	ND	ND	ND	59
HSS19-41-1	47	ND	ND	ND	ND	ND	ND	1.1	5.2	ND	ND	ND	23	ND	ND	6.0	0.84	ND	12	ND	ND	ND	41
HSS19-41-2	58	ND	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	9.3	ND	ND	17	ND	ND	32	ND	ND	ND	58
HSS19-41-3	44	ND	ND	ND	ND	ND	ND	ND	0.25 J	ND	ND	ND	0.54 J	ND	ND	0.93 J	ND	ND	0.69 J	ND	0.31 J	33 J	2
HSS19-43-1	29	ND	ND	ND	ND	ND	ND	0.95	ND	ND	ND	ND	16	ND	ND	5.1	ND	ND	7.4	ND	ND	ND	29

Table B-4a  
Pesticides

	Total Chlorinated Pesticides	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma-Chlordane	Endosulfan I	alpha-Chlordane	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endrin Aldehyde	Endosulfan Sulfate	4,4'-DDT	Endrin Ketone	Methoxychlor	Toxaphene	Total DDT
HSS19-43-2	43	ND	ND	ND	ND	ND	ND	1.2	4.6	ND	ND	ND	22	ND	ND	6.5	ND	ND	10	ND	ND	ND	39
HSS19-44-1	20	ND	ND	ND	ND	1.1	ND	1.1	1.7	ND	ND	ND	13	ND	ND	4.2	ND	ND	ND	ND	ND	ND	17
HSS19-44-2	35	ND	ND	ND	ND	ND	ND	1	3.5	ND	ND	ND	17	ND	ND	4.6	ND	ND	9.8	ND	ND	ND	31
HSS19-44-3	2	ND	ND	ND	ND	ND	ND	ND	0.3 J	ND	ND	ND	0.71 J	ND	ND	0.98 J	ND	ND	0.61 J	ND	ND	ND	2
HSS19-45-1	19	ND	ND	ND	ND	ND	ND	0.85	2.4	ND	ND	ND	9.2	ND	ND	3.3	ND	ND	4.0	ND	ND	ND	17
HSS19-45-2	58	ND	ND	ND	ND	ND	ND	6.1	9.7	ND	ND	ND	12	ND	ND	6.6	ND	4.4	15	3.9	ND	ND	34
HSS19-47-1	35	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	22	ND	ND	5.0	ND	ND	7.8	ND	ND	ND	35
HSS19-47-2	25	ND	ND	ND	ND	ND	ND	0.99	ND	ND	ND	ND	19	ND	ND	5.1	ND	1.2	ND	ND	ND	ND	24
HSS19-48-1	17	ND	ND	ND	ND	ND	ND	1.3	1.3	ND	ND	ND	12	ND	ND	4.1	ND	ND	ND	ND	ND	ND	16
HSS19-48-2	25	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	19	ND	ND	6.1	ND	ND	ND	ND	ND	ND	25
HSS19-48-3	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0

Notes:

Sediments considered chemically "impacted" and planned for disposal within CAD cell

ND = Not Detected at or above MDL for the particular analyte of interest

mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)

µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)

Total DDT = sum of 4,4'-DDE; 4,4'-DDD; and 4,4'-DDT

"--" = not tested

Data Qualifiers:

I = The MRL/MDL has been elevated due to matrix interference (chromatographic interference for Organic).

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL

P = The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP\_ Pesticides).

Table B-4b  
Pesticides

	Total Chlorinated Pesticides	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma-Chlordane	Endosulfan I	alpha-Chlordane	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endrin Aldehyde	Endosulfan Sulfate	4,4'-DDT	Endrin Ketone	Methoxychlor	Toxaphene
2001 USACE Data																						
Method		EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A
Reporting Limits		1.2-1.4	1.2- 1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-2.1	1.2-1.4	1.2-5.4	1.2-3.9	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	1.2-1.4	61-68
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-02	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND I	ND I	2.3	ND	ND	1.6 P	ND	ND	ND
DCPH01-03	3.1	ND I	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.0 J	ND I	ND I	1.5	ND	ND	0.6 J P	ND	ND	ND
DCPH01-05	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-06	2.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	ND I	0.9 J	ND	ND	0.5 J P	ND	ND I	ND
DCPH01-07	0.8	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-08	9.6	ND	ND I	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.5	ND I	ND	4.7	ND	ND	1.4 P	ND	ND	ND
DCPH01-09	2.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	ND I	0.9 J	ND	ND	0.4 J	ND	ND	ND
DCPH01-10	9.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	ND I	ND	4.5	ND	ND	1.6 P	ND	ND	ND
DCPH01-11	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7 J	ND	ND	0.4 J	ND	ND	0.4 J	ND	ND	ND
DCPH01-12	4.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4	ND	ND I	1.0 J	ND	ND	0.7 J P	ND	ND	ND
DCPH01-13	11.1	ND I	ND	ND	ND	ND	0.4 J	ND	ND	ND	ND	ND	5.5	ND I	ND	4.2	ND	ND	1.0 J P	ND	ND	ND
DCPH01-15	10.4	ND	ND	ND	ND	ND	ND	ND I	ND I	ND	ND	0.6 J P	5.8	ND I	ND I	2.2	ND	ND	1.8 P	ND	ND	ND
DCPH01-16	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND I	ND I	1.5	ND	ND	1.7 P	ND	ND	ND
DCPH01-17	9	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND	5.8	ND I	ND	2.4	ND	ND	0.8	ND	ND I	ND
DCPH01-18	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	ND	1.3	ND	ND	0.3 J	ND	ND	ND
DCPH01-20	6	ND	ND	ND	ND	ND	ND	ND	ND I	ND	ND	ND	3.5	ND	ND	2.1	ND	ND	0.4 J	ND	ND	ND
2002 USACE Data																						
Method		EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A
Reporting Limits		1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 30	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 27	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 14	1.3 - 17	1.3 - 28	1.3 - 14	1.3 - 14	61-660
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-2A	9.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	ND	ND	5.6	ND	ND	ND	ND	ND	ND
DCPH-02-2B	0.55	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.55	ND	ND	ND	ND	ND	ND
DCPH-02-4A	1.62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.92	ND	ND	0.7	ND	ND	ND	ND	ND	ND
DCPH-02-4B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-5A	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	ND
DCPH-02-5B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2007 Navy Data																						
Method		EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A	EPA 8081A
Reporting Limits		0.99 - 5.0	0.84 - 12	0.99 - 9.6	0.84 - 5.0	0.84 - 5.0	0.84 - 5.0	0.84 - 5.0	0.84 - 5.0	0.96 - 5.2	0.84 - 5.4	0.84 - 5.0	0.99 - 9.5	0.84 - 8.7	0.96 - 30	0.84 - 5.0	0.84 - 10	0.84 - 14	0.84 - 5.0	0.99 - 44	0.84 - 5.6	0.99 - 7.4

Table B-4b  
Pesticides

	Total Chlorinated Pesticides	alpha-BHC	beta-BHC	gamma-BHC (Lindane)	delta-BHC	Heptachlor	Aldrin	Heptachlor Epoxide	gamma-Chlordane	Endosulfan I	alpha-Chlordane	Dieldrin	4,4'-DDE	Endrin	Endosulfan II	4,4'-DDD	Endrin Aldehyde	Endosulfan Sulfate	4,4'-DDT	Endrin Ketone	Methoxychlor	Toxaphene
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-24-1	19	ND	ND	ND	ND	ND	ND	0.99	ND	ND	ND	ND	8.8	ND	ND	3.1	ND	ND	6.9	ND	ND	ND
HSS19-24-2	120	ND	ND	ND	0.52 J	0.33 J	ND	2.3	ND	ND	ND	ND	ND	ND	ND	25	ND	ND	94	ND	ND	ND
HSS19-27-1	16	ND	0.50 J	ND	ND	ND	ND	0.97	ND	ND	ND	ND	7.8	ND	ND	2.4	ND	ND	4.6	ND	ND	ND
HSS19-27-2	12	ND	ND	ND	ND	ND	ND	0.84	1.4	ND	ND	ND	2.8	ND	ND	4.1	ND	ND	3.3	ND	ND	ND
HSS19-27-3	46	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	11	ND	ND	19	ND	ND	20	ND	ND	ND
HSS19-30-1	10	ND	ND	ND	0.17 J	ND	ND	0.57	ND	ND	ND	ND	3.4	ND	0.87 J	1.1	ND	ND	3.7	ND	ND	ND
HSS19-30-2	20	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	5.8	ND	ND	2.8	ND	ND	11	ND	ND	ND
HSS19-35-1	2	ND	ND	ND	ND	ND	ND	0.15	0.52 J	ND	ND	ND	0.15 J	ND	ND	ND	0.14 J	ND	0.95	ND	ND	ND
HSS19-36-1	9	ND	ND	ND	ND	ND	ND	0.87	ND	ND	ND	ND	5.1	ND	ND	3.2	ND	ND	0.77	ND	ND	ND
HSS19-36-2	8	ND	ND	ND	ND	ND	ND	0.87	ND	ND	ND	ND	4.4	ND	ND	2.9	ND	ND	0.91	ND	ND	ND
HSS19-36-3	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6	ND	ND	1.3	ND	ND	0.48 J	ND	ND	ND
HSS19-38-1	30	ND	ND	ND	ND	ND	ND	0.93	3.2	ND	ND	ND	16	ND	ND	4.3	ND	ND	6.8	ND	ND	ND
HSS19-38-2	9	ND	ND	ND	ND	ND	ND	0.81	1.6	ND	ND	ND	2.7	ND	ND	1.2	ND	ND	3.1	ND	ND	ND
HSS19-38-3	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-39-1	74	ND	ND	ND	ND	ND	ND	5	9.6	ND	ND	ND	ND	ND	12	ND	ND	ND	47	ND	ND	ND
HSS19-39-2	12	ND	ND	ND	ND	ND	ND	0.82	3.3	ND	ND	ND	1.7	ND	ND	1.7	ND	ND	4.8	ND	ND	ND
HSS19-39-3	45	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	9.2	ND	ND	4.6	2	ND	22	ND	ND	ND
HSS19-42-1	23	ND	ND	ND	ND	ND	ND	0.93	5.5	ND	ND	ND	11	ND	ND	3.5	1.2	ND	ND	ND	2.1	ND
HSS19-42-2	28	ND	ND	ND	0.51	ND	ND	0.89	5.4	ND	ND	ND	14	ND	3.6	4.6	ND	ND	ND	ND	ND	ND
HSS19-46-1	5	ND	ND	ND	ND	ND	ND	0.87	ND	ND	ND	ND	2.8	ND	ND	1.7	ND	ND	ND	ND	ND	ND
HSS19-46-2	13	ND	ND	ND	ND	ND	ND	0.89	2.4	ND	ND	ND	5.3	ND	ND	1.7	ND	ND	3.4	ND	ND	ND
HSS19-46-3	7	ND	ND	ND	ND	ND	ND	ND	1.8	ND	ND	ND	3.8	ND	ND	2.4	0.29	ND	2.2	ND	ND	ND
HSS19-49-1	3	ND	ND	ND	ND	ND	ND	0.17	0.27 J	ND	ND	ND	1.7	ND	ND	0.69 J	0.072 J	ND	0.58	ND	ND	ND
HSS19-49-2	6	ND	ND	ND	ND	ND	ND	0.81	ND	ND	ND	ND	3.1	ND	ND	2.7	ND	ND	ND	ND	ND	ND

Notes:

- "Clean" sediments considered suitable for capping of CAD cell
- ND = Not Detected at or above MDL for the particular analyte of interest
- mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)
- µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)
- Total DDT = sum of 4,4'-DDE; 4,4'-DDD; and 4,4'-DDT
- "--" = not tested
- Data Qualifiers:
- I = The MRL/MDL has been elevated due to matrix interference (chromatographic interference for Organic).
- J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- P = The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP\_ Pesticides).

Table B-5a  
PCBs

	Total Detectable PCBs	Total PCB congeners	Total PCB aroclors	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
2001 USACE Data										
Method										
Reporting Limits										
Units										
DCPH01-01	--	--	130.2	ND	ND	ND	ND	ND	75.4	54.8
DCPH01-04	--	--	77.4	ND	ND	ND	ND	ND	42	35.4
DCPH01-14	--	--	23.4	ND	ND	ND	ND	ND	23.4	ND
DCPH01-19	--	--	509	ND	ND	ND	ND	ND	288	221
2002 USACE Data										
Method			EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Reporting Limits				13 - 140	25 - 270	13 - 140	13 - 140	13 - 140	13 - 140	13 - 140
Units			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-1A	--	--	240	ND	ND	ND	ND	ND	130	110
DCPH-02-1B	--	--	0	ND	ND	ND	ND	ND	ND	ND
DCPH-02-3A	--	--	179	ND	ND	ND	ND	ND	100	79
DCPH-02-3B	--	--	0	ND	ND	ND	ND	ND	ND	ND
DCPH-02-6A	--	--	261	ND	ND	ND	ND	ND	220	41
DCPH-02-6B	--	--	448	ND	ND	ND	ND	ND	370	78
DCPH-02-7A	--	--	42.9	ND	ND	ND	ND	ND	36	6.9
DCPH-02-7B	--	--	57	ND	ND	ND	ND	ND	43	14
2006 OHD Data										
Method	EPA 8270Cm									
Reporting Limits										
Units	µg/kg									
PH-CS-01-D06	128.8	--	--	--	--	--	--	--	--	--
PH-CS-01-M06	18.2	--	--	--	--	--	--	--	--	--
PH-CS-02-D06	0	--	--	--	--	--	--	--	--	--
PH-CS-02-M06	100	--	--	--	--	--	--	--	--	--
2007 Navy Data										
Method	EPA 8270Cm									
Reporting Limits										
Units	µg/kg									
HSS19-02-1	374	--	--	--	--	--	--	--	--	--
HSS19-02-2	413	--	--	--	--	--	--	--	--	--
HSS19-03-1	22.7	--	--	--	--	--	--	--	--	--
HSS19-03-2	1.65	--	--	--	--	--	--	--	--	--
HSS19-04-1	7.57	--	--	--	--	--	--	--	--	--
HSS19-04-2	4.33	--	--	--	--	--	--	--	--	--
HSS19-06-1	6.37	--	--	--	--	--	--	--	--	--
HSS19-06-2	0	--	--	--	--	--	--	--	--	--
HSS19-07-1	23.7	--	--	--	--	--	--	--	--	--
HSS19-07-2	19.3	--	--	--	--	--	--	--	--	--
HSS19-07-3	0	--	--	--	--	--	--	--	--	--
HSS19-08-1	9.32	--	--	--	--	--	--	--	--	--
HSS19-08-2	7.58	--	--	--	--	--	--	--	--	--
HSS19-09-1	123	--	--	--	--	--	--	--	--	--
HSS19-09-2	20.6	--	--	--	--	--	--	--	--	--
HSS19-11-1	0	--	--	--	--	--	--	--	--	--
HSS19-11-2	0	--	--	--	--	--	--	--	--	--
HSS19-11-3	0	--	--	--	--	--	--	--	--	--
HSS19-12-1	46.5	--	--	--	--	--	--	--	--	--
HSS19-12-2	23.1	--	--	--	--	--	--	--	--	--
HSS19-12-3	8.45	--	--	--	--	--	--	--	--	--
HSS19-13-1	144	--	--	--	--	--	--	--	--	--
HSS19-13-2	22.9	--	--	--	--	--	--	--	--	--
HSS19-14-1	180	--	--	--	--	--	--	--	--	--
HSS19-14-2	57.9	--	--	--	--	--	--	--	--	--
HSS19-14-3	1.18	--	--	--	--	--	--	--	--	--
HSS19-15-1	100	--	--	--	--	--	--	--	--	--
HSS19-15-2	51.8	--	--	--	--	--	--	--	--	--
HSS19-16-1	117	--	--	--	--	--	--	--	--	--
HSS19-16-2	250	--	--	--	--	--	--	--	--	--
HSS19-17-1	158	--	--	--	--	--	--	--	--	--
HSS19-17-2	217	--	--	--	--	--	--	--	--	--
HSS19-18-1	54.5	--	--	--	--	--	--	--	--	--
HSS19-18-2	28.0	--	--	--	--	--	--	--	--	--
HSS19-18-3	0	--	--	--	--	--	--	--	--	--
HSS19-19-1	51.3	--	--	--	--	--	--	--	--	--
HSS19-19-2	114	--	--	--	--	--	--	--	--	--
HSS19-20-1	207	--	--	--	--	--	--	--	--	--
HSS19-20-2	0	--	--	--	--	--	--	--	--	--
HSS19-21-1	129	--	--	--	--	--	--	--	--	--

Table B-5a  
PCBs

	Total Detectable PCBs	Total PCB congeners	Total PCB aroclors	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
HSS19-21-2	33.0	--	--	--	--	--	--	--	--	--
HSS19-22-1	70.9	--	--	--	--	--	--	--	--	--
HSS19-22-2	1.85	--	--	--	--	--	--	--	--	--
HSS19-23-1	134	--	--	--	--	--	--	--	--	--
HSS19-23-2	8.66	--	--	--	--	--	--	--	--	--
HSS19-23-3	0	--	--	--	--	--	--	--	--	--
HSS19-25-1	102	--	--	--	--	--	--	--	--	--
HSS19-25-2	116	--	--	--	--	--	--	--	--	--
HSS19-26-1	129	--	--	--	--	--	--	--	--	--
HSS19-26-2	214	--	--	--	--	--	--	--	--	--
HSS19-28-1	36.5	--	--	--	--	--	--	--	--	--
HSS19-28-2	139	--	--	--	--	--	--	--	--	--
HSS19-28-3	97.19	--	--	--	--	--	--	--	--	--
HSS19-29-1	83.5	--	--	--	--	--	--	--	--	--
HSS19-29-2	165	--	--	--	--	--	--	--	--	--
HSS19-29-3	78.5	--	--	--	--	--	--	--	--	--
HSS19-31-1	76.8	--	--	--	--	--	--	--	--	--
HSS19-31-2	119	--	--	--	--	--	--	--	--	--
HSS19-32-1	66.5	--	--	--	--	--	--	--	--	--
HSS19-32-2	200	--	--	--	--	--	--	--	--	--
HSS19-33-1	90.3	--	--	--	--	--	--	--	--	--
HSS19-33-2	117	--	--	--	--	--	--	--	--	--
HSS19-33-3	7.14	--	--	--	--	--	--	--	--	--
HSS19-34-1	26.1	--	--	--	--	--	--	--	--	--
HSS19-34-2	58.1	--	--	--	--	--	--	--	--	--
HSS19-37-1	31.1	--	--	--	--	--	--	--	--	--
HSS19-37-2	39.9	--	--	--	--	--	--	--	--	--
HSS19-40-1	141	--	--	--	--	--	--	--	--	--
HSS19-40-2	302	--	--	--	--	--	--	--	--	--
HSS19-41-1	73.1	--	--	--	--	--	--	--	--	--
HSS19-41-2	23.3	--	--	--	--	--	--	--	--	--
HSS19-41-3	2.74	--	--	--	--	--	--	--	--	--
HSS19-43-1	30.0	--	--	--	--	--	--	--	--	--
HSS19-43-2	68.3	--	--	--	--	--	--	--	--	--
HSS19-44-1	27.6	--	--	--	--	--	--	--	--	--
HSS19-44-2	50.9	--	--	--	--	--	--	--	--	--
HSS19-44-3	3.2	--	--	--	--	--	--	--	--	--
HSS19-45-1	20.8	--	--	--	--	--	--	--	--	--
HSS19-45-2	132	--	--	--	--	--	--	--	--	--
HSS19-47-1	33.5	--	--	--	--	--	--	--	--	--
HSS19-47-2	19.6	--	--	--	--	--	--	--	--	--
HSS19-48-1	14.7	--	--	--	--	--	--	--	--	--
HSS19-48-2	17.9	--	--	--	--	--	--	--	--	--
HSS19-48-3	0	--	--	--	--	--	--	--	--	--

Notes:  
Sediments considered chemically "impacted" and planned for disposal within CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)  
µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)  
"--" = not tested

Data Qualifiers:  
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.  
P = The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results (25% for CLP\_Pesticides).

Table B-5b  
PCBs

	Total Detectable PCBs	Total PCB congeners	Total PCB aroclors	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
2001 USACE Data										
Method										
Reporting Limits										
Units										
DCPH01-02	--	--	70.7	ND	ND	ND	ND	ND	41.9	28.8
DCPH01-03	--	--	32.9	ND	ND	ND	ND	ND	19.1	13.8
DCPH01-05	--	--	0	ND	ND	ND	ND	ND	ND	ND
DCPH01-06	--	--	24.67	ND	ND	ND	ND	ND	16.9	7.77 P
DCPH01-07	--	--	5.77	ND	ND	ND	ND	ND	5.77 J	ND
DCPH01-08	--	--	64.1	ND	ND	ND	ND	ND	39	25.1
DCPH01-09	--	--	18.92	ND	ND	ND	ND	ND	10.4	8.52
DCPH01-10	--	--	66.3	ND	ND	ND	ND	ND	38	28.3 P
DCPH01-11	--	--	18.52	ND	ND	ND	ND	ND	13.1	5.42 J P
DCPH01-12	--	--	24.1	ND	ND	ND	ND	ND	14	10.1 P
DCPH01-13	--	--	62.5	ND	ND	ND	ND	ND	39.1	23.4
DCPH01-15	--	--	72.4	ND	ND	ND	ND	ND	72.4	ND
DCPH01-16	--	--	81.3	ND	ND	ND	ND	ND	53.6	27.7 P
DCPH01-17	--	--	36.5	ND	ND	ND	ND	ND	36.5	ND
DCPH01-18	--	--	9.88	ND	ND	ND	ND	ND	9.88	ND
DCPH01-20	--	--	12.3	ND	ND	ND	ND	ND	12.3 J	ND
2002 USACE Data										
Method			EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082	EPA 8082
Reporting Limits				13 - 140	25 - 270	13 - 140	13 - 140	13 - 140	13 - 140	13 - 140
Units			µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-2A	--	--	95	ND	ND	ND	ND	ND	48	47
DCPH-02-2B	--	--	9.6	ND	ND	ND	ND	ND	5.3	4.3
DCPH-02-4A	--	--	15.9	ND	ND	ND	ND	ND	10	5.9
DCPH-02-4B	--	--	0	ND	ND	ND	ND	ND	ND	ND
DCPH-02-5A	--	--	1300	ND	ND	ND	ND	ND	1000	300
DCPH-02-5B	--	--	325	ND	ND	ND	ND	ND	250	75
2007 Navy Data										
Method	EPA 8270Cm									
Reporting Limits										
Units	µg/kg									
HSS19-24-1	49.3	--	--	--	--	--	--	--	--	--
HSS19-24-2	466	--	--	--	--	--	--	--	--	--
HSS19-27-1	32.5	--	--	--	--	--	--	--	--	--
HSS19-27-2	29.3	--	--	--	--	--	--	--	--	--
HSS19-27-3	81.26	--	--	--	--	--	--	--	--	--
HSS19-30-1	33.6	--	--	--	--	--	--	--	--	--
HSS19-30-2	76.8	--	--	--	--	--	--	--	--	--
HSS19-35-1	5.73	--	--	--	--	--	--	--	--	--
HSS19-36-1	1.34	--	--	--	--	--	--	--	--	--
HSS19-36-2	0.97	--	--	--	--	--	--	--	--	--
HSS19-36-3	0.28	--	--	--	--	--	--	--	--	--
HSS19-38-1	26.6	--	--	--	--	--	--	--	--	--
HSS19-38-2	15.9	--	--	--	--	--	--	--	--	--
HSS19-38-3	0	--	--	--	--	--	--	--	--	--
HSS19-39-1	266	--	--	--	--	--	--	--	--	--
HSS19-39-2	44.1	--	--	--	--	--	--	--	--	--
HSS19-39-3	139.78	--	--	--	--	--	--	--	--	--
HSS19-42-1	50.6	--	--	--	--	--	--	--	--	--
HSS19-42-2	72.2	--	--	--	--	--	--	--	--	--
HSS19-46-1	5.58	--	--	--	--	--	--	--	--	--
HSS19-46-2	18.2	--	--	--	--	--	--	--	--	--
HSS19-46-3	21.74	--	--	--	--	--	--	--	--	--
HSS19-49-1	2.88	--	--	--	--	--	--	--	--	--
HSS19-49-2	2.07	--	--	--	--	--	--	--	--	--

Notes:

"Clean" sediments considered suitable for capping of CAD cell.

ND = Not Detected at or above MDL for the particular analyte of interest

mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)

µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)

"--" = not tested

Data Qualifiers:

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

P = The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40 percent between the two analytical results (25 percent for CLP\_ Pesticides).



Table B-6a  
Organotins

	Total Organotins	Monobutyltin	Dibutyltin	Tributyltin	Tetrabutyltin
2001 USACE Data					
Method		Krone	Krone	Krone	Krone
Reporting Limits		0.5-0.7	0.4-0.7	0.4-0.7	0.6-0.7
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-01	9	1.7	3.2	4.1	ND
DCPH01-04	3.9	ND	2	1.9	ND
DCPH01-14	82.8	1 J	14	67	0.8 J
DCPH01-19	4.6	ND	1.6	3	ND
2002 USACE Data					
Method		Krone	Krone	Krone	Krone
Reporting Limits		1.2 - 1.5	1.2 - 3.7	1.2 - 5.1	1.2 - 1.5
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-1A	25.3	3.6	12	9.7	ND
DCPH-02-1B	0	ND	ND	ND	ND
DCPH-02-3A	2.56	2	ND	ND	0.56
DCPH-02-3B	0	ND	ND	ND	ND
DCPH-02-6A	8.34	0.74	2.6	5	ND
DCPH-02-6B	8.5	1.2	2.5	4.8	ND
DCPH-02-7A	2.5	ND	1.3	1.2	ND
DCPH-02-7B	2.9	ND	2.9	ND	ND
2006 OHD Data					
Method		Krone	Krone	Krone	Krone
Reporting Limits		1			
Units		µg/kg	µg/kg	µg/kg	µg/kg
PH-CS-01-D06	--		17.2	592	7.1
PH-CS-01-M06	--	5.5	18.3	398	
PH-CS-02-D06	--			2.4	7.1
PH-CS-02-M06	--		22.0	545	5.6
2007 Navy Data					
Method		Krone	Krone	Krone	Krone
Reporting Limits		1.2 - 2.0	1.2 - 2.0	1.2 - 2.0	1.2 - 2.0
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-02-1	106	7.2	36	62	1.1 J
HSS19-02-2	45	6.6	15	23	ND
HSS19-03-1	10	0.87 J	2.7	6.3	ND
HSS19-03-2	1	ND	0.28 J	0.41 J	ND
HSS19-04-1	22	1.8	5.2	15	ND
HSS19-04-2	8	0.82	2.8	4.6	ND
HSS19-06-1	0	ND	ND	ND	ND
HSS19-06-2	0	ND	0.078 J	ND	ND
HSS19-07-1	2	0.13 J	0.66 J	1.4	ND
HSS19-07-2	1	0.46 J	0.29 J	0.65 J	ND
HSS19-07-3	0	ND	ND	ND	ND
HSS19-08-1	1	ND	1.0 J	ND	ND
HSS19-08-2	0	0.23	0.12 J	ND	ND
HSS19-09-1	65	6.9 J	21	36	0.70 J
HSS19-09-2	6	0.64 J	2.7	2.7	ND
HSS19-11-1	0	ND	ND	ND	ND
HSS19-11-2	0	ND	0.12 J	ND	ND
HSS19-11-3	0	ND	ND	ND	ND
HSS19-12-1	1	0.30 J	0.38 J	0.60 J	ND
HSS19-12-2	0	ND	0.19 J	ND	ND
HSS19-12-3	0	ND	ND	ND	ND
HSS19-13-1	60	8.2	16	35	0.72 J
HSS19-13-2	8	1.1 J	2.9	3.5	ND
HSS19-14-1	57	6	21	30	0.17 J
HSS19-14-2	18	2.7	5.8	9.5	ND
HSS19-14-3	0	ND	ND	ND	ND
HSS19-15-1	32	3.4	9.2	19	0.70 J
HSS19-15-2	3	0.48 J	0.99 J	1.1 J	ND
HSS19-16-1	34	5.6	9.7	19	ND
HSS19-16-2	74	8.4	29	37	ND
HSS19-17-1	35	2.8	7.8	24	ND
HSS19-17-2	216	13	41	160	1.8 J
HSS19-18-1	26	2.7	6.5	17	ND
HSS19-18-2	2	ND	0.63 J	0.88 J	ND
HSS19-18-3	0	ND	ND	ND	ND
HSS19-19-1	43	7.7	13	22	ND
HSS19-19-2	56	7.5	22	26	0.27 J
HSS19-20-1	11	3.5	7.7	ND	ND
HSS19-20-2	0	ND	ND	ND	ND
HSS19-21-1	51	6.5	20	24	ND
HSS19-21-2	1	0.19 J	0.56 J	0.46 J	ND

Table B-6a  
Organotins

	Total Organotins	Monobutyltin	Dibutyltin	Tributyltin	Tetrabutyltin
HSS19-22-1	3	ND	2.6	ND	ND
HSS19-22-2	0	ND	0.15 J	ND	ND
HSS19-23-1	75	6.7	32	36	0.27 J
HSS19-23-2	2	0.38 J	0.88 J	1.1 J	ND
HSS19-23-3	0	ND	ND	ND	ND
HSS19-25-1	27	5.7	8.8	12	ND
HSS19-25-2	15	2.1	4	8.4	ND
HSS19-26-1	53	6.8	23	23	ND
HSS19-26-2	20	3.5	7.6	9.1	ND
HSS19-28-1	50	3.6	9.5	36	0.93 J
HSS19-28-2	11	1.1 J	3.7	6.3	ND
HSS19-28-3	16	2	7.1	6.5	ND
HSS19-29-1	56	7.4	20	29	ND
HSS19-29-2	41	4	13	24	ND
HSS19-29-3	11	1.3 J	3.5	6.1	ND
HSS19-31-1	65	5.6	16	43	ND
HSS19-31-2	59	3.7	17	37	1.3 J
HSS19-32-1	91	7.2	22	61	0.69 J
HSS19-32-2	24	3	9.3	12	ND
HSS19-33-1	84	6	29	48	0.95 J
HSS19-33-2	13	2.2	5.3	5.9	ND
HSS19-33-3	0	ND	ND	ND	ND
HSS19-34-1	176	2.8	13	160	0.47 J
HSS19-34-2	23	2.2	7.3	13	ND
HSS19-37-1	3	0.27	0.82 J	1.6	ND
HSS19-37-2	1	ND	0.23 J	0.42 J	ND
HSS19-40-1	4	0.40 J	1.2 J	2.8	ND
HSS19-40-2	8	1.0 J	3.5	3.5	ND
HSS19-41-1	8	1.5 J	2.7	3.6	ND
HSS19-41-2	0	0.23 J	0.20 J	ND	ND
HSS19-41-3	0	ND	ND	ND	ND
HSS19-43-1	4	0.75 J	1.5	1.4 J	ND
HSS19-43-2	4	0.57 J	1.2 J	1.8	ND
HSS19-44-1	4	0.67 J	1.2 J	2.2	ND
HSS19-44-2	4	0.68 J	1.2 J	2.4	ND
HSS19-44-3	0	ND	ND	ND	ND
HSS19-45-1	2	0.49 J	0.59 J	0.87 J	ND
HSS19-45-2	30	2.0	23	5.2	ND
HSS19-47-1	6	0.62 J	4.2	1.0 J	ND
HSS19-47-2	4	1.3 J	1.3 J	1.7	ND
HSS19-48-1	4	0.61 J	0.99 J	2.5	ND
HSS19-48-2	5	0.66 J	1.6 J	2.5	ND
HSS19-48-3	0	ND	ND	ND	ND

Notes:  
Sediments considered chemically "impacted" and planned for disposal within CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)  
µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)  
"--" = not tested

Data Qualifiers:  
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Table B-6b  
Organotins

	Total Organotins	Monobutyltin	Dibutyltin	Tributyltin	Tetrabutyltin
2001 USACE Data					
Method		Krone	Krone	Krone	Krone
Reporting Limits		0.5-0.7	0.4-0.7	0.4-0.7	0.6-0.7
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-02	3.5	ND	1.9	1.6	ND
DCPH01-03	2.7	ND	1.4	1.3	ND
DCPH01-05	1.9	ND	1.9	ND	ND
DCPH01-06	3	ND	1.5	1.5	ND
DCPH01-07	ND	ND	ND	ND	ND
DCPH01-08	2.3	ND	1.5	0.8 J	ND
DCPH01-09	4.7	ND	2	2.7	ND
DCPH01-10	33.2	ND	5.2	28	ND
DCPH01-11	1	ND	1.0 J	ND	ND
DCPH01-12	24.5	0.7 J	5.5	12	ND
DCPH01-13	33	1 J	11	21	ND
DCPH01-15	6.4	ND	2.5	3.9	ND
DCPH01-16	3.8	ND	1.4	2.4	ND
DCPH01-17	3	ND	1.0 J	2	ND
DCPH01-18	1.4	ND	0.6 J	0.8 J	ND
DCPH01-20	0.6	ND	0.6 J	ND	ND
2002 USACE Data					
Method		Krone	Krone	Krone	Krone
Reporting Limits		1.2 - 1.5	1.2 - 3.7	1.2 - 5.1	1.2 - 1.5
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-2A	9.3	1.1	4	4.2	ND
DCPH-02-2B	0	ND	ND	ND	ND
DCPH-02-4A	5	ND	1.8	3.2	ND
DCPH-02-4B	0	ND	ND	ND	ND
DCPH-02-5A	1.81	ND	0.71	1.1	ND
DCPH-02-5B	4.68	1	0.98	2.7	ND
2007 Navy Data					
Method		Krone	Krone	Krone	Krone
Reporting Limits		1.2 - 2.0	1.2 - 2.0	1.2 - 2.0	1.2 - 2.0
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-24-1	20	2.4	5.1	12	ND
HSS19-24-2	15	2.6	6.2	6.2	ND
HSS19-27-1	61	1.7	4.1	55	ND
HSS19-27-2	6	0.36 J	2.2	3.4	ND
HSS19-27-3	4	0.8 J	1.6	1.5	ND
HSS19-30-1	15	1.6	4.2	9.6	ND
HSS19-30-2	1152	15	180	950	7.3
HSS19-35-1	0	ND	0.13 J	ND	ND
HSS19-36-1	0	ND	0.15 J	ND	ND
HSS19-36-2	1	ND	0.60 J	ND	ND
HSS19-36-3	0	ND	ND	ND	ND
HSS19-38-1	3	0.78	1.0 J	1.1 J	ND
HSS19-38-2	1	ND	0.51 J	ND	ND
HSS19-38-3	0	ND	ND	ND	ND
HSS19-39-1	16	0.31 J	1.6	14	ND
HSS19-39-2	3	0.57 J	0.64 J	1.4	ND
HSS19-39-3	1	ND	0.53 J	0.96 J	ND
HSS19-42-1	8	0.69 J	2.5	4.4	ND
HSS19-42-2	8	0.87 J	2.2	4.5	ND
HSS19-46-1	1	ND	ND	0.52 J	ND
HSS19-46-2	2	ND	0.45 J	1.4	ND
HSS19-46-3	1	ND	0.41 J	0.7 J	ND
HSS19-49-1	0	0.087	0.20 J	ND	ND
HSS19-49-2	2	0.17 J	1.8	0.23	ND

Notes:

- "Clean" sediments considered suitable for capping of CAD cell.
- ND = Not Detected at or above MDL for the particular analyte of interest
- mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)
- µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)
- "--" = not tested

Data Qualifiers:

- J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

Table B-7a  
Phthalates

	Total Phthalates	Dimethyl Phthalate	Diethyl Phthalate	Di-n-butyl Phthalate	Butyl Benzyl Phthalate	Bis (2- ethylhexyl) Phthalate	Di-n-octyl Phthalate
2001 USACE Data							
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		400-450	400-450	400-450	400-450	400-450	400-450
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-01	0	ND	ND	ND	ND	ND	ND
DCPH01-04	0	ND	ND	ND	ND	ND	ND
DCPH01-14	60	ND	ND	ND	ND	60 J	ND
DCPH01-19	0	ND	ND	ND	ND	ND	ND
2002 USACE Data							
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-1A	77	ND	ND	ND	ND	77	ND
DCPH-02-1B	0	ND	ND	ND	ND	ND	ND
DCPH-02-3A	72	ND	ND	ND	ND	72	ND
DCPH-02-3B	0	ND	ND	ND	ND	ND	ND
DCPH-02-6A	63	ND	ND	ND	ND	63	ND
DCPH-02-6B	0	ND	ND	ND	ND	ND	ND
DCPH-02-7A	0	ND	ND	ND	ND	ND	ND
DCPH-02-7B	71	ND	ND	ND	ND	71	ND
2006 OHD Data							
Phthalates were not analyzed as part of this data set.							
2007 Navy Data							
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		6.1 - 99	6.1 - 99	6.1 - 99	6.1 - 99	6.1 - 99	6.1 - 99
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
EB-071707	1.1	ND	0.017	0.4	0.13	0.6 J	ND
EB-071807	1.1	ND	0.021	0.51	0.049	0.51 J	ND
ER-071607	1.2	ND	0.036	0.63	0.2	0.34 J	ND
ER-071907	1.2	ND	0.45	0.55	0.044	0.16 J	ND
ER-072007	0.5	ND	ND	0.35	0.028	0.14 J	ND
HSS19-02-1	659.0	18	ND	47	ND	570	ND
HSS19-02-2	459.0	ND	ND	59	ND	350	ND
HSS19-03-1	88.4	ND	ND	19 B	ND	65 J	ND
HSS19-03-2	44.4	ND	ND	30 B	ND	10 J	ND
HSS19-04-1	69.4	ND	ND	25 B	ND	40 J	ND
HSS19-04-2	32.3	ND	ND	15 B	ND	13 J	ND
HSS19-06-1	21.8	ND	ND	14 B	ND	3.3 J	ND
HSS19-06-2	49.3	ND	ND	23 B	ND	22 J	ND
HSS19-07-1	62.7	ND	5.7 J	29 B	ND	28 J	ND
HSS19-07-2	40.3	ND	4.2	26 B	1.9 J	8.2 J	ND
HSS19-07-3	23.3	ND	ND	16 B	ND	7.3 J	ND
HSS19-08-1	46.7	ND	4.7 J	22 B	ND	20 J	ND
HSS19-08-2	42.3	ND	ND	26 B	ND	12 J	ND
HSS19-09-1	389.0	ND	23	36	ND	330	ND
HSS19-09-2	33.3	ND	4.3	12 B	ND	17 J	ND
HSS19-11-1	51.7	ND	ND	24 B	3.3 J	20 J	ND
HSS19-11-2	31.5	ND	5.5 J	18 B	ND	8 J	ND
HSS19-11-3	33.0	ND	ND	17 B	ND	16 J	ND
HSS19-12-1	65.1	ND	ND	21 B	ND	39 J	ND
HSS19-12-2	44.6	3.8 J	4.8 J	22 B	ND	14	ND
HSS19-12-3	94.0	ND	ND	19 B	ND	75 J	ND
HSS19-13-1	256.0	ND	ND	29 B	21	200	ND
HSS19-13-2	98.5	ND	ND	18 B	ND	76 J	ND
HSS19-14-1	389.0	ND	ND	46	ND	310	ND
HSS19-14-2	84.9	ND	ND	24	ND	51	ND
HSS19-14-3	29.0	ND	ND	13 B	ND	16 J	ND
HSS19-15-1	269.0	ND	29	28 B	12	200	ND
HSS19-15-2	68.1	ND	ND	22 B	6.6 J	35 J	ND
HSS19-16-1	608.0	3.9 J	ND	28 B	390	180 J	ND
HSS19-16-2	319.8	ND	ND	27 B	27	260	ND
HSS19-17-1	99.2	ND	ND	17 B	ND	77 J	ND
HSS19-17-2	970.0	ND	ND	47	19	870	ND
HSS19-18-1	221.0	ND	ND	23	16	170	ND
HSS19-18-2	41.2	ND	ND	21 B	ND	16 J	ND
HSS19-18-3	16.4	ND	ND	13 B	ND	3.4 J	ND
HSS19-19-1	142.0	ND	ND	21	19	90	ND
HSS19-19-2	182.4	ND	ND	22	8.4	140	ND
HSS19-20-1	107.0	ND	ND	ND	ND	82	ND
HSS19-20-2	41.5	ND	ND	25 B	ND	12 J	ND
HSS19-21-1	195.0	ND	ND	23	ND	150	ND

Table B-7a  
Phthalates

	Total Phthalates	Dimethyl Phthalate	Diethyl Phthalate	Di-n-butyl Phthalate	Butyl Benzyl Phthalate	Bis (2- ethylhexyl) Phthalate	Di-n-octyl Phthalate
HSS19-21-2	67.0	ND	ND	25	ND	23	ND
HSS19-22-1	85.0	ND	ND	21	ND	41	ND
HSS19-22-2	35.5	ND	ND	19 B	ND	12 J	ND
HSS19-23-1	1884.4	5.6 J	ND	32 B	40	1800	ND
HSS19-23-2	32.7	ND	ND	17 B	ND	11 J	ND
HSS19-23-3	105.0	ND	ND	15 B	ND	90 J	ND
HSS19-25-1	525.0	ND	ND	35	30	430	ND
HSS19-25-2	241.0	ND	ND	20	ND	210	ND
HSS19-26-1	508.4	ND	ND	26 B	16	460	ND
HSS19-26-2	92.2	ND	ND	26 B	ND	60 J	ND
HSS19-28-1	556.0	ND	ND	37	68	440	ND
HSS19-28-2	123.6	ND	ND	27	ND	87	ND
HSS19-28-3	91.0	ND	ND	17 B	ND	74 J	ND
HSS19-29-1	150.7	ND	ND	25 B	31	88 J	ND
HSS19-29-2	132.9	ND	ND	23 B	11	93 J	ND
HSS19-29-3	60.0	ND	ND	24 B	ND	36 J	ND
HSS19-31-1	260.4	ND	ND	32	7.4	210	ND
HSS19-31-2	218.0	12	ND	49	16	130	ND
HSS19-32-1	146.0	ND	ND	30	12	92	ND
HSS19-32-2	101.0	ND	ND	28	ND	62	ND
HSS19-33-1	289.0	ND	ND	28	ND	250	ND
HSS19-33-2	113.9	ND	ND	49	ND	55	ND
HSS19-33-3	24.4	ND	ND	17 B	ND	7.4 J	ND
HSS19-34-1	126.8	ND	ND	24 B	6.8 J	91 J	ND
HSS19-34-2	99.9	ND	ND	23 B	ND	72 J	ND
HSS19-37-1	58.9	ND	ND	28 B	7.1 J	19 J	ND
HSS19-37-2	33.7	ND	ND	25 B	ND	3.9 J	ND
HSS19-40-1	62.0	ND	ND	29 B	ND	28 J	ND
HSS19-40-2	62.9	ND	ND	28 B	ND	30 J	ND
HSS19-41-1	94.5	5 J	ND	25 B	ND	59 J	ND
HSS19-41-2	64.9	ND	ND	36 B	ND	24 J	ND
HSS19-41-3	23.3	ND	ND	17 B	ND	6.3 J	ND
HSS19-43-1	101.2	ND	ND	27 B	11	58 J	ND
HSS19-43-2	205.7	6.7 J	ND	23 B	ND	170 J	ND
HSS19-44-1	98.5	ND	ND	38 B	ND	55 J	ND
HSS19-44-2	71.4	4 J	ND	31 B	ND	31 J	ND
HSS19-44-3	24.0	ND	ND	17 B	ND	7.0 J	ND
HSS19-45-1	65.7	ND	ND	28 B	ND	33 J	ND
HSS19-45-2	68.3	ND	ND	32 B	ND	31 J	ND
HSS19-47-1	90.6	ND	ND	44 B	ND	41 J	ND
HSS19-47-2	79.0	ND	ND	29	ND	24	ND
HSS19-48-1	139.0	ND	ND	36	ND	68	ND
HSS19-48-2	70.0	ND	ND	ND	ND	38	ND
HSS19-48-3	25.4	ND	ND	18 B	ND	7.4 J	ND

Notes:  
Sediments considered chemically "impacted" and planned for disposal within CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)  
µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)  
Data Qualifiers:  
J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.  
B = Analyte was detected in associated method blank.

Table B-7b  
Phthalates

	Total Phthalates	Dimethyl Phthalate	Diethyl Phthalate	Di-n-butyl Phthalate	Butyl Benzyl Phthalate	Bis (2- ethylhexyl) Phthalate	Di-n-octyl Phthalate
2001 USACE Data							
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		400-450	400-450	400-450	400-450	400-450	400-450
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-02	0	ND	ND	ND	ND	ND	ND
DCPH01-03	0	ND	ND	ND	ND	ND	ND
DCPH01-05	0	ND	ND	ND	ND	ND	ND
DCPH01-06	0	ND	ND	ND	ND	ND	ND
DCPH01-07	0	ND	ND	ND	ND	ND	ND
DCPH01-08	0	ND	ND	ND	ND	ND	ND
DCPH01-09	0	ND	ND	ND	ND	ND	ND
DCPH01-10	0	ND	ND	ND	ND	ND	ND
DCPH01-11	0	ND	ND	ND	ND	ND	ND
DCPH01-12	0	ND	ND	ND	ND	ND	ND
DCPH01-13	50	ND	ND	ND	ND	50 J	ND
DCPH01-15	0	ND	ND	ND	ND	ND	ND
DCPH01-16	0	ND	ND	ND	ND	ND	ND
DCPH01-17	0	ND	ND	ND	ND	ND	ND
DCPH01-18	0	ND	ND	ND	ND	ND	ND
DCPH01-20	0	ND	ND	ND	ND	ND	ND
2002 USACE Data							
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-2A	0	ND	ND	ND	ND	ND	ND
DCPH-02-2B	0	ND	ND	ND	ND	ND	ND
DCPH-02-4A	0	ND	ND	ND	ND	ND	ND
DCPH-02-4B	0	ND	ND	ND	ND	ND	ND
DCPH-02-5A	0	ND	ND	ND	ND	ND	ND
DCPH-02-5B	0	ND	ND	ND	ND	ND	ND
2007 Navy Data							
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		6.1 - 99	6.1 - 99	6.1 - 99	6.1 - 99	6.1 - 99	6.1 - 99
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-24-1	129.0	ND	ND	23	14	81	ND
HSS19-24-2	150.0	ND	ND	29	ND	110	ND
HSS19-27-1	117.0	ND	ND	23	10	73	ND
HSS19-27-2	45.7	ND	ND	25 B	ND	16 J	ND
HSS19-27-3	49.0	ND	ND	14 B	ND	35 J	ND
HSS19-30-1	66.7	ND	ND	19 B	16	27 J	ND
HSS19-30-2	129.0	ND	ND	ND	ND	81	ND
HSS19-35-1	33.6	ND	ND	25 B	ND	4.6 J	ND
HSS19-36-1	30.8	ND	ND	21 B	ND	5.1 J	ND
HSS19-36-2	37.9	ND	ND	23 B	5 J	5.2 J	ND
HSS19-36-3	20.9	ND	ND	16 B	ND	4.9 J	ND
HSS19-38-1	79.0	ND	ND	28 B	ND	46 J	ND
HSS19-38-2	42.0	ND	ND	29 B	ND	8.6 J	ND
HSS19-38-3	20.6	ND	ND	16 B	ND	4.6 J	ND
HSS19-39-1	41.7	ND	ND	27 B	2.6 J	7.7 J	ND
HSS19-39-2	50.5	ND	ND	32 B	6.4 J	7.7 J	ND
HSS19-39-3	29.4	ND	ND	21 B	ND	8.4 J	ND
HSS19-42-1	79.0	ND	ND	27 B	ND	47 J	ND
HSS19-42-2	135.7	ND	44	24 B	9.7 J	58 J	ND
HSS19-46-1	33.6	ND	ND	24 B	ND	4.9 J	ND
HSS19-46-2	40.8	ND	ND	23 B	ND	13 J	ND
HSS19-46-3	38.3	ND	ND	20 B	8.4 J	9.9 J	ND
HSS19-49-1	30.7	ND	ND	21 B	ND	5.1 J	ND
HSS19-49-2	45.4	ND	ND	28 B	ND	13 J	ND

Notes:

- "Clean" sediments considered suitable for capping of CAD cell.
- ND = Not Detected at or above MDL for the particular analyte of interest
- mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)
- µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)

Data Qualifiers:

- J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.
- B = Analyte was detected in associated method blank.

Table B-8a  
Phenols

	Total Phenols	Phenol	2-Chlorophenol	2-Methylphenol	4-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	2,4-Dichlorophenol	4-Chloro-3-Methylphenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2,4-Dinitrophenol	4-Nitrophenol	2-Methyl-4,6-dinitrophenol	Pentachlorophenol
2001 USACE Data															
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		400-450	400-450	400-450	400-450	400-450	400-450	400-450	400-450	400-450	400-450	2,400-2,700	2,400-2,700	2,400-2,700	2,400-2,700
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-01	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-04	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-14	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-19	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2002 USACE Data															
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	2,500 - 2,900	2,500 - 2,900	2,500 - 2,900	2,500 - 2,900
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-1A	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-1B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-3A	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-3B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-6A	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-6B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-7A	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-7B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2006 OHD Data															
Phenols were not analyzed as part of this data set.															
2007 Navy Data															
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		19 - 150	6.1 - 99	6.1 - 99	6.1 - 99	3.2 - 26	31 - 500	6.1 - 99	6.1 - 99	6.1 - 99	6.1 - 99	130 - 2000	61 - 500	61 - 500	61 - 500
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-02-1	130	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-02-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-03-1	4	3.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-03-2	4	3.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-04-1	7	6.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table B-8a  
Phenols

	Total Phenols	Phenol	2-Chlorophenol	2-Methylphenol	4-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	2,4-Dichlorophenol	4-Chloro-3-Methylphenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2,4-Dinitrophenol	4-Nitrophenol	2-Methyl-4,6-dinitrophenol	Pentachlorophenol
HSS19-04-2	5	5.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-06-1	8	7.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-06-2	5	5.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-07-1	15	15 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-07-2	9	8.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-07-3	6	5.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-08-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-08-2	20	20 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-09-1	24	24	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-09-2	9	8.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-11-1	17	17 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-11-2	17	17 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-11-3	14	14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-12-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-12-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-12-3	17	17 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-13-1	10	9.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-13-2	28	28 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-14-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-14-2	6	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-14-3	12	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-15-1	7	6.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-15-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-16-1	20	20 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-16-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-17-1	6	5.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-17-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-18-1	7	7.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-18-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-18-3	6	6.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-19-1	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-19-2	10	9.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-20-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-20-2	6	6.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-21-1	13	13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-21-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND



Table B-8a  
Phenols

	Total Phenols	Phenol	2-Chlorophenol	2-Methylphenol	4-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	2,4-Dichlorophenol	4-Chloro-3-Methylphenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2,4-Dinitrophenol	4-Nitrophenol	2-Methyl-4,6-dinitrophenol	Pentachlorophenol
HSS19-22-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-22-2	3	2.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-23-1	63	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-23-2	15	15 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-23-3	18	18 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-25-1	31	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-25-2	17	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-26-1	31	31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-26-2	15	15 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-28-1	12	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-28-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-28-3	17	11 J	ND	ND	5.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-29-1	16	16 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-29-2	5	5.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-29-3	20	20 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-31-1	10	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-31-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-32-1	7	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-32-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-33-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-33-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-33-3	35	4.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31 J
HSS19-34-1	66	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-34-2	14	14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-37-1	4	4.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-37-2	4	3.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-40-1	3	3.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-40-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-41-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-41-2	35	6.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28 J
HSS19-41-3	12	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-43-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-43-2	9	ND	ND	9.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-44-1	7	6.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-44-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-44-3	14	14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table B-8a  
Phenols

	Total Phenols	Phenol	2-Chlorophenol	2-Methylphenol	4-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	2,4-Dichlorophenol	4-Chloro-3-Methylphenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2,4-Dinitrophenol	4-Nitrophenol	2-Methyl-4,6-dinitrophenol	Pentachlorophenol
HSS19-45-1	8	8.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-45-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-47-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-47-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-48-1	26	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-48-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-48-3	12	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:  
Sediments considered chemically "impacted" and planned for disposal within CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)  
µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)  
"--" = not tested  
Total Phenols = sum of named compounds

Table B-8b  
Phenols

	Total Phenols	Phenol	2-Chlorophenol	2-Methylphenol	4-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	2,4-Dichlorophenol	4-Chloro-3-Methylphenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2,4-Dinitrophenol	4-Nitrophenol	2-Methyl-4,6-dinitrophenol	Pentachlorophenol
2001 USACE Data															
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		400-450	400-450	400-450	400-450	400-450	400-450	400-450	400-450	400-450	400-450	2,400-2,700	2,400-2,700	2,400-2,700	2,400-2,700
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-02	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-03	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-05	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-06	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-07	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-08	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-09	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-10	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-11	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-12	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-13	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-15	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-16	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-17	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-18	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH01-20	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2002 USACE Data															
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	400 - 480	2,500 - 2,900	2,500 - 2,900	2,500 - 2,900	2,500 - 2,900
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-2A	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-2B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-4A	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-4B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-5A	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DCPH-02-5B	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2007 Navy Data															

Table B-8b  
Phenols

	Total Phenols	Phenol	2-Chlorophenol	2-Methylphenol	4-Methylphenol	2-Nitrophenol	2,4-Dimethylphenol	2,4-Dichlorophenol	4-Chloro-3-Methylphenol	2,4,6-Trichlorophenol	2,4,5-Trichlorophenol	2,4-Dinitrophenol	4-Nitrophenol	2-Methyl-4,6-dinitrophenol	Pentachlorophenol
Method		EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C	EPA 8270C
Reporting Limits		19 - 150	6.1 - 99	6.1 - 99	6.1 - 99	3.2 - 26	31 - 500	6.1 - 99	6.1 - 99	6.1 - 99	6.1 - 99	130 - 2000	61 - 500	61 - 500	61 - 500
Units	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
HSS19-24-1	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-24-2	0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-27-1	22	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-27-2	4	3.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-27-3	17	9.4 J	ND	ND	7.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-30-1	54	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-30-2	0	26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-35-1	4	4.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-36-1	3	3.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-36-2	4	3.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-36-3	12	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-38-1	12	12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-38-2	3	3.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-38-3	6	6.3 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-39-1	4	3.7 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-39-2	7	7.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-39-3	10	9.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-42-1	6	6.2 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-42-2	6	5.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-46-1	6	5.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-46-2	7	7.4 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-46-3	19	19 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-49-1	7	6.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
HSS19-49-2	4	3.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes

"Clean" sediments considered suitable for capping of CAD cell.  
ND = Not Detected at or above MDL for the particular analyte of interest  
mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)  
µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)  
"--" = not tested  
Total Phenols = sum of named compounds

**Table B-9a**  
**Total Petroleum Hydrocarbons**

	<b>Total Recoverable Petroleum Hydrocarbons</b>	<b>Gasoline Range Organics (GRO)</b>	<b>Kerosene</b>	<b>Diesel</b>	<b>Motor Oil</b>
<b>2001 USACE Data</b>					
Method		EPA 8015B	EPA 8015M	EPA 8015M	EPA 8015M
Reporting Limits		6,100-6,800	12,000-26,000	12,000-26,000	29,000-65,000
Units		µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-01	--	ND	ND	34,000 H	110,000 O
DCPH01-04	--	ND	10,000 J	28,000 H	74,000 O
DCPH01-14	--	ND	ND	20,000 J	73,000 O
DCPH01-19	--	ND	ND	20,000 J	88,000 O
<b>2002 USACE Data</b>					
Method		EPA 8015B	EPA 8015M	EPA 8015M	EPA 8015M
Reporting Limits		6,000 - 7,200	12,000 - 15,000	12,000 - 15,000	30,000 - 37,000
Units		µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-1A	--	ND	22000	90000	300000
DCPH-02-1B	--	ND	ND	ND	12000
DCPH-02-3A	--	ND	21000	89000	280000
DCPH-02-3B	--	ND	ND	ND	15000
DCPH-02-6A	--	ND	10000	44000	190000
DCPH-02-6B	--	ND	7900	32000	140000
DCPH-02-7A	--	ND	ND	13000	54000
DCPH-02-7B	--	ND	ND	13000	49000
<b>2006 OHD Data</b>					
TPH was not analyzed as part of this data set.					
<b>2007 Navy Data</b>					
TPH was not analyzed as part of this data set.					

**Notes:**

Sediments considered chemically "impacted" and planned for disposal within CAD cell.

ND = Not Detected at or above MDL for the particular analyte of interest

mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)

µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)

"--" = not tested

**Data Qualifiers:**

H = The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.

I = The MRL/MDL has been elevated due to matrix interference (chromatographic interference for Organic).

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

O = The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard

P = The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40 percent between the two analytical results (25% for CLP\_ Pesticides).

Z = The chromatographic fingerprint does not resemble a petroleum product.

**Table B-9b**  
**Total Petroleum Hydrocarbons**

	<b>Total Recoverable Petroleum Hydrocarbons</b>	<b>Gasoline Range Organics (GRO)</b>	<b>Kerosene</b>	<b>Diesel</b>	<b>Motor Oil</b>
<b>2001 USACE Data</b>					
Method		EPA 8015B	EPA 8015M	EPA 8015M	EPA 8015M
Reporting Limits		6,100-6,800	12,000-26,000	12,000-26,000	29,000-65,000
Units		µg/kg	µg/kg	µg/kg	µg/kg
DCPH01-02	--	ND	ND	20,000 J	50,000 J
DCPH01-03	--	ND	ND	20,000 J	60,000 J
DCPH01-05	--	ND	ND	ND	ND
DCPH01-06	--	ND	ND	10,000 J	ND
DCPH01-07	--	ND	ND	ND	ND
DCPH01-08	--	ND	20,000 J	43,000 H	120,000 O
DCPH01-09	--	ND	ND	7,000 J	20,000 J
DCPH01-10	--	ND	20,000 J	35,000 H	130,000 O
DCPH01-11	--	ND	ND	ND	ND
DCPH01-12	--	ND	ND	10,000 J	30,000 J
DCPH01-13	--	ND	ND	47,000 H	120,000 O
DCPH01-15	--	ND	ND	ND	60,000 J
DCPH01-16	--	ND	20,000 J	28,000 H	68,000 O
DCPH01-17	--	ND	10,000 J	25,000 Z	60,000 J
DCPH01-18	--	ND	ND	10,000 J	50,000 J
DCPH01-20	--	ND	ND	10,000 J	30,000 J
<b>2002 USACE Data</b>					
Method		EPA 8015B	EPA 8015M	EPA 8015M	EPA 8015M
Reporting Limits		6,000 - 7,200	12,000 - 15,000	12,000 - 15,000	30,000 - 37,000
Units		µg/kg	µg/kg	µg/kg	µg/kg
DCPH-02-2A	--	ND	8200	33000	110000
DCPH-02-2B	--	ND	ND	ND	9800
DCPH-02-4A	--	ND	ND	6700	22000
DCPH-02-4B	--	ND	ND	ND	8000
DCPH-02-5A	--	ND	7400	32000	140000
DCPH-02-5B	--	ND	ND	17000	88000
<b>2007 Navy Data</b>					
TPH was not analyzed as part of this data set.					

## Notes:

"Clean" sediments considered suitable for capping of CAD cell.

ND = Not Detected at or above MDL for the particular analyte of interest

mg/kg = milligrams per kilogram/parts per million (dry weight unless noted)

"--" = not tested µg/kg = micrograms per kilogram/parts per billion (dry weight unless noted)

## Data Qualifiers:

H = The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.

I = The MRL/MDL has been elevated due to matrix interference (chromatographic interference for Organic).

J = The result is an estimated concentration that is less than the MRL but greater than or equal to the MDL.

O = The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.

P = The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40 percent between the two analytical results (25 percent for CLP\_ Pesticides).

Z = The chromatographic fingerprint does not resemble a petroleum product.

Table B-10a  
Calculations for 95 Percent Upper Confidence Interval of Port Hueneme Data<sup>1</sup> for Cap Modeling Calculations

Analyte	Sediment Data (OC Normalized values)						Water Data (OC Normalized values)				
	Maximum Value µg/kg (µg/kg OC for all organics)	Average µg/kg (µg/kg OC for all organics)	Standard Deviation µg/kg (µg/kg OC for all organics)	95 Percent Confidence Interval µg/kg (µg/kg OC for all organics)	95 Percent UCL <sup>(2)</sup> = AVG + 95% CI µg/kg (µg/kg OC for all organics)	95 Percent UCL <sup>(2)</sup> = AVG + 95% CI mg/kg (mg/kg OC for all organics)	K <sub>oc</sub> or K <sub>d</sub>	Log <sub>10</sub> K <sub>oc</sub> or Log <sub>10</sub> K <sub>d</sub>	Calculated 95% UCL Underlying Sediment Porewater (mg/L)	Selected Water Quality Criteria <sup>3</sup> (mg/L)	Exceedance Factor in Porewater
<b>Metals</b>											
Antimony (Sb)	3600	518	894	179	697	0.7	3981	3.60	0.0002	4.3	0.00
Arsenic (As)	33400	4779	3894	767	5546	5.5	251	2.40	0.02	0.036	0.61
Cadmium (Cd)	2850	589	361	72	661	0.7	1995	3.30	0.0003	0.0093	0.04
Chromium (Cr)	126000	18985	13832	2711	21696	21.7	850	2.93	0.03	0.05	0.51
Copper (Cu)	240000	33947	40980	8032	41979	42.0	3162	3.50	0.01	1.3	0.01
Lead (Pb)	213000	20545	29166	5834	26379	26.4	39811	4.60	0.0007	0.0081	0.08
Mercury (Hg)	2430	108	257	53	161	0.2	79433	4.90	0.000002	0.000051	0.04
Nickel (Ni)	29000	15110	6272	1229	16339	16.3	7943	3.90	0.002	4.6	0.00
Selenium (Se)	870	338	162	33	371	0.4	3981	3.60	0.0001	0.071	0.00
Silver (Ag)	1200	231	242	53	283	0.3	3981	3.60	0.00007	0.0019	0.04
Zinc (Zn)	245000	77360	54619	10759	88119	88.1	12589	4.10	0.007	0.081	0.09
<b>PAHs (OC-normalized)</b>											
Naphthalene	5217	494	633	132	625	0.6	1837	3.26	0.0003405	0.194	0.00
2-Methylnaphthalene	1812	296	299	66	363	0.4	2976	3.47	0.0001219	0.300	0.00
Acenaphthylene	50000	3450	6406	1422	4872	4.9	6123	3.79	0.0007957	0.307	0.00
Acenaphthene	10327	663	1640	366	1030	1.0	6123	3.79	0.0001682	2.700	0.00
Dibenzofuran	6522	380	759	171	550	0.6	11300	4.05	0.0000487	--	
Fluorene	24182	1368	3051	656	2024	2.0	11300	4.05	0.0001791	14.000	0.00
Phenanthrene	200000	9072	23990	4824	13896	13.9	20800	4.32	0.0006681	0.019	0.03
Anthracene	177083	9404	20800	4250	13655	13.7	20400	4.31	0.0006693	110.000	0.00
Fluoranthene	1625000	41277	174229	34852	76129	76.1	70900	4.85	0.0010738	0.370	0.00
Pyrene	3333333	89933	356111	71236	161168	161.2	69400	4.84	0.0023223	11.000	0.00
Benzo[a]anthracene	729167	23799	77497	15584	39383	39.4	231000	5.36	0.0001705	0.000049	3.48
Chrysene	875000	39811	96978	19399	59210	59.2	236000	5.37	0.0002509	0.000049	5.12
Benzo[b]fluoranthene	479167	54297	71490	14376	68673	68.7	803000	5.90	0.0000855	0.000	1.75
Benzo(k)fluoranthene	258442	26923	46725	9446	36368	36.4	787000	5.90	0.0000462	0.000	0.94
Benzo[a]pyrene	333333	39885	53339	10783	50668	50.7	787000	5.90	0.0000644	0.000	1.31
Indeno(1,2,3-cd)pyrene	208333	23978	30942	6289	30267	30.3	2680000	6.43	0.0000113	0.000049	`
Dibenzo(a,h)anthracene	54167	6614	8354	1736	8350	8.4	2620000	6.42	0.0000032	0.000049	0.07
Benzo(ghi)perylene	125000	16760	20716	4144	20904	20.9	2680000	6.43	0.0000078	--	
<b>Pesticides (OC-normalized)</b>											
alpha-BHC	--	--	--	--	--	--	--	--	--	0.000013	
beta-BHC	207	157	51	57	215	0.2	--	--	--	0.000046	
gamma-BHC (Lindane)	185	185	--	--	--	--	--	--	--	0.000063	
Heptachlor	73	73	--	--	--	--	52400	4.72	--	0.00000021	
Aldrin	32	32	--	--	--	--	106000	5.03	--	0.00000014	
Heptachlor Epoxide	662	126	118	27	154	0.154	5260	3.72	0.0000292	0.00000011	265.50



Table B-10a  
Calculations for 95 Percent Upper Confidence Interval of Port Hueneme Data<sup>1</sup> for Cap Modeling Calculations

Analyte	Sediment Data (OC Normalized values)						Water Data (OC Normalized values)				
	Maximum Value µg/kg (µg/kg OC for all organics)	Average µg/kg (µg/kg OC for all organics)	Standard Deviation µg/kg (µg/kg OC for all organics)	95 Percent Confidence Interval µg/kg (µg/kg OC for all organics)	95 Percent UCL <sup>(2)</sup> = AVG + 95% CI µg/kg (µg/kg OC for all organics)	95 Percent UCL <sup>(2)</sup> = AVG + 95% CI mg/kg (mg/kg OC for all organics)	K <sub>oc</sub> or K <sub>d</sub>	Log <sub>10</sub> K <sub>oc</sub> or Log <sub>10</sub> K <sub>d</sub>	Calculated 95% UCL Underlying Sediment Porewater (mg/L)	Selected Water Quality Criteria <sup>3</sup> (mg/L)	Exceedance Factor in Porewater
Endosulfan I	484	484	--	--	--	--	22000	4.34	--	0.24	
Dieldrin	--	--	--	--	--	--	10600	4.03	--	0.00000014	
4,4'-DDE	3065	958	643	137	1095	1.1	153000	5.18	0.0000072	0.00000059	12.13
Endrin	226	153	102	142	295	0.3	10600	4.03	0.0000279	0.00081	0.03
Endosulfan II	--	--	--	--	--	--	22000	4.34	--	0.24	
4,4'-DDD	14904	835	1711	364	1198	1.2	153000	5.18	0.0000078	0.00000084	9.32
Endrin Aldehyde	296	136	139	158	294	0.3	--	--	--	0.00081	
Endosulfan Sulfate	281	198	105	119	317	0.3	--	--	--	0.24	
4,4'-DDT	5946	1103	940	240	1343	1.3	220000	5.34	0.0000061	0.00000059	10.35
Toxaphene	4521	4521	--	--	--	--	99300	5.00	--	0.00000075	
Total DDT	17644	2184	2339	459	2642	2.6	220000	5.34	0.0000120	0.00000059	20.36
Total PCBs	40811	6727	6917	1445	8172	8.2	44800	4.65	0.0001824	0.00003	6.08
Organotins											
TBT	107636	6426	20051	4951	11378	11.4	25119	4.4	0.0004529	0.00042	1.08
Phthalates											
Dimethyl Phthalate	1452	527	452	313	840	0.8	37.09	1.57	0.0226473	2900	0.00
Diethyl Phthalate	2474	1569	651	451	2020	2.0	126.2	2.10	0.0160038	120	0.00
Di-n-butyl Phthalate	6447	2653	1262	505	3157	3.2	--	--	--	12	
Butyl Benzyl Phthalate	20856	2412	4532	1852	4264	4.3	9359	3.97	0.0004556	5.2	0.00
Bis (2-ethylhexyl) Phthalate	91837	10919	14143	2938	13858	13.9	165000	5.22	0.0000840	0.0059	0.01
Di-n-octyl Phthalate	--	--	--	--	--	--	--	--	--	--	
Phenols											
Phenol	10484	2394	2230	574	2968	3.0	268	2.43	0.0110754	4600	0.00
2-Chlorophenol	--	--	--	--	--	--	443	2.65	--	0.4	
2-Nitrophenol	--	--	--	--	--	--	--	--	--	--	
2,4-Dimethylphenol	--	--	--	--	--	--	717.6	2.86	--	2.3	
2,4-Dichlorophenol	--	--	--	--	--	--	717.6	2.86	--	0.79	
2,4,6-Trichlorophenol	--	--	--	--	--	--	1186	3.07	--	0.0065	
2,4,5-Trichlorophenol	--	--	--	--	--	--	1186	3.07	--	--	
2,4-Dinitrophenol	--	--	--	--	--	--	363.8	2.56	--	14	
4-Nitrophenol	--	--	--	--	--	--	309	2.49	--	--	
2-Methyl-4,6-dinitrophenol	--	--	--	--	--	--	--	--	--	0.765	
Pentachlorophenol	--	--	--	--	--	--	3380	3.53	--	0.0082	

Notes

- 1 – Calculated from 2001, 2002, 2006, and 2007 data sets  
2 – See Section 6.2 for text describing how the 95 percent UCL was used in the model.  
3 – No relevant Water Quality criteria are available for some analytes

Table B-10b  
Calculations for 95 Percent Upper Confidence Interval of Port Hueneme Data<sup>1</sup> for Cap Modeling Calculations

Analyte	Sediment Data (OC Normalized values)					
	Maximum Value µg/kg (µg/kg OC for all organics)	Average µg/kg (µg/kg OC for all organics)	Standard Deviation µg/kg (µg/kg OC for all organics)	95 Percent Confidence Interval µg/kg (µg/kg OC for all organics)	95 Percent UCL = AVG + 95% CI µg/kg (µg/kg OC for all organics)	95 Percent UCL = AVG + 95% CI mg/kg (mg/kg OC for all organics)
Metals						
Antimony (Sb)	3700	778	1305	467	1245	1.2
Arsenic (As)	5690	2700	1110	321	3021	3.0
Cadmium (Cd)	1510	532	356	108	639	0.6
Chromium (Cr)	23900	11643	4171	1205	12848	12.8
Copper (Cu)	38,200	10828	8607	2487	13316	13.3
Lead (Pb)	26,700	7156	4547	1329	8484	8.5
Mercury (Hg)	240	34	36	10	45	0.0
Nickel (Ni)	20700	10825	3606	1042	11867	11.9
Selenium (Se)	600	272	165	59	331	0.3
Silver (Ag)	1100	214	295	106	319	0.3
Zinc (Zn)	109000	36950	20935	6050	43000	43.0
PAHs (OC-normalized)						
Naphthalene	3077	886	795	318	1204	1.2
2-Methylnaphthalene	1500	488	374	149	638	0.6
Acenaphthylene	3429	1338	1017	435	1773	1.8
Acenaphthene	4923	526	1190	583	1110	1.1
Dibenzofuran	4385	555	973	416	972	1.0
Fluorene	5154	1062	1602	720	1782	1.8
Phenanthrene	54615	4694	8844	2707	7401	7.4
Anthracene	29412	4142	6496	2065	6207	6.2
Fluoranthene	84615	10378	15630	4618	14996	15.0
Pyrene	56154	12495	15000	4483	16979	17.0
Benzo[a]anthracene	33077	6390	7813	2309	8698	8.7
Chrysene	52308	11065	13629	4027	15092	15.1
Benzo[b]fluoranthene	100000	17665	21184	6259	23924	23.9
Benzo(k)fluoranthene	73913	12336	15700	4693	17029	17.0
Benzo[a]pyrene	73846	14145	17592	5198	19343	19.3
Indeno(1,2,3-cd)pyrene	52308	8486	10719	3242	11728	11.7
Dibenzo(a,h)anthracene	14615	2690	3106	1093	3783	3.8
Benzo(ghi)perylene	38462	6581	7936	2372	8953	9.0
Pesticides (OC-normalized)						
alpha-BHC	50	--	--	--	--	--
beta-BHC	37	--	--	--	--	--
gamma-BHC (Lindane)	--	--	--	--	--	--
Heptachlor	25	--	--	--	--	--
Aldrin	80	--	--	--	--	--
Heptachlor Epoxide	6250	562	1395	627	1189	1.189
Endosulfan I	--	--	--	--	--	--
Dieldrin	194	--	--	--	--	--
4,4'-DDE	3375	1038	643	202	1240	1.2
Endrin	--	--	--	--	--	--
Endosulfan II	15000	5205	8485	--	--	--
4,4'-DDD	2435	749	553	176	924	0.9
Endrin Aldehyde	444	173	159	139	312	0.3
Endosulfan Sulfate	--	--	--	--	--	--
4,4'-DDT	58750	2771	10170	3470	6241	6.2
Toxaphene	--	--	--	--	--	--
Total DDT	65000	3967	9867	2984	6951	7.0
Total PCBs	332500	21783	66880	26757	48540	48.5
Organotins						
TBT	90476	4449	15795	5389	9838	9.8
Phthalates						
Dimethyl Phthalate	--	--	--	--	--	--
Diethyl Phthalate	5789	--	--	--	--	--
Di-n-butyl Phthalate	36250	9805	10377	4241	14046	14.0
Butyl Benzyl Phthalate	3368	2121	984	682	2802	2.8
Bis (2-ethylhexyl) Phthalate	10750	5070	2813	1103	6173	6.2
Di-n-octyl Phthalate	--	--	--	--	--	--
Phenols						
Phenol	8710	2637	2113	845	3482	3.5
2-Chlorophenol	--	--	--	--	--	--
2-Nitrophenol	--	--	--	--	--	--
2,4-Dimethylphenol	--	--	--	--	--	--
2,4-Dichlorophenol	--	--	--	--	--	--
2,4,6-Trichlorophenol	--	--	--	--	--	--
2,4,5-Trichlorophenol	--	--	--	--	--	--
2,4-Dinitrophenol	--	--	--	--	--	--
4-Nitrophenol	--	--	--	--	--	--
2-Methyl-4,6-dinitrophenol	--	--	--	--	--	--
Pentachlorophenol	--	--	--	--	--	--

Notes:  
1 – Calculated from 2001, 2002, 2006, and 2007 data sets

Table B-11  
Summary Chemical Specific Input Parameters for Chemical Isolation Layer Modeling

Chemical	Chronic Water Quality Criteria (mg/L) <sup>(a)</sup>	Log <sub>10</sub> K <sub>oc</sub> or Log <sub>10</sub> K <sub>d</sub> <sup>(b)</sup>	Molecular diffusion coefficient (cm/yr) <sup>(c)</sup>	95% UCL of Detected Concentration of Underlying Bulk Sediment (mg/kgOC, mg/kg)	Calculated 95% UCL Underlying Sediment Porewater (mg/L) <sup>(d)</sup>	Ratio of Porewater/ Chronic Value for Underlying Sediments <sup>(e)</sup>	Solubility Limit at 25°C (mg/L) <sup>(f)</sup>	Min. Reported Anaerobic Biodegradation Rate (/year) <sup>(g)</sup>	ERM (mg/kg) <sup>(h)</sup>	ERL (mg/kg) <sup>(h)</sup>
TBT	4.2E-04	4.40	181	11.4	0.00045	1.1	100	1.53	NA	NA
Benzo[a]anthracene	4.9E-05	5.36	284	39.4	0.00017	3.5	0.0094	0.002	1.6	0.261
Benzo[a]pyrene	4.9E-05	5.90	284	50.7	0.000064	1.3	0.0016	0.48	1.6	0.43
Benzo[b]fluoranthene	4.9E-05	5.90	175	68.7	0.000086	1.7	0.0015	0.41	NA	NA
Chrysene	4.9E-05	5.37	196	59.2	0.00025	5.1	0.002	0.06	2.8	0.384
Heptachlor Epoxide	1.1E-07	3.72	133	0.2	0.000029	265.5	0.2	0.14	NA	NA
Total DDT	5.9E-07	5.34	156	2.6	0.000012	20.4	0.0055	0.0030	0.0461	0.00158
Total PCBs	3.0E-05	4.65	252	8.2	0.00018	6.1	0.277	0.0014	0.180	0.0227

Notes:  
See WQ criteria tab for sources.  
Koc and Kd values and sources are found on Koc/Kd sheet.  
Diffusion coefficients from RAIS except for TBT - calculated using MW of TBT - see Deff & Mass Transfer tab.  
Calculated as underlying bulk sediment concentration divided by Koc.  
Comparison of EPA 2002 chronic values to maximum calculated sediment porewater underlying the cap.  
Solubility from <http://rais.ornl.gov> (see solubility tab); for TBT, TBT oxide was used (Carl recommends).  
See biodegradation tab for sources of biodegradation rates.  
NOAA SQRT tables 2004

Table B-12  
Cap Breakthrough Modeling for Port Hueneme

Chemical	ρ <sub>b</sub>	ε or (n)	v	U	C <sub>o</sub>	a	V <sub>b</sub>	D <sub>w</sub>	H <sub>p</sub>	D'	foc	K <sub>oc</sub>	K <sub>d</sub>	L <sub>eff</sub>	R <sub>f</sub>	t <sub>50</sub>
	Bulk density of cap material (1-ε)*ρ <sub>s</sub>	Porosity	Pore water Velocity (U/ε)	Darcy Velocity (or v*ε)	Initial pore water concentration	Dispersivity (10% L <sub>eff</sub> )	Organic Compd LeBas Molar Volume	Molecular diffusion coefficient	Hindrance Parameter (ε <sup>-1/3</sup> )	Diffusion/ dispersion coefficient	Fraction of organic carbon in cap material	Organic carbon partition coeff for organics	Observed partition coefficient for CB (organics=foc* K <sub>oc</sub> )	Effective Chemical Isolation Layer Thickness	Retardatio n Factor 1+(ρ <sub>b</sub> *K <sub>d</sub> /ε)	t <sub>50</sub>
	g/cm <sup>3</sup>		cm/yr	cm/yr	mg/L		cm3/mol	cm <sup>2</sup> /yr		cm <sup>2</sup> /yr		mL/g	L/kg	cm		day
TBT	1.50	0.4	365	146	4.53E-04	9.14	NA	181	1.36	3470.9	0.38%	25,119	95	91	359	165
Benzo[a]anthracene	1.50	0.4	365	146	1.70E-04	9.14	NA	284	1.36	3546.7	0.38%	231,000	878	91	3293	116000
Benzo[a]pyrene	1.50	0.4	365	146	6.44E-05	9.14	NA	284	1.36	3546.7	0.38%	787,000	2,991	91	11216	530
Benzo[b]fluoranthene	1.50	0.4	365	146	8.55E-05	9.14	NA	175	1.36	3466.8	0.38%	803,000	3,051	91	11444	610
Chrysene	1.50	0.4	365	146	2.51E-04	9.14	NA	196	1.36	3481.9	0.38%	236,000	897	91	3364	4216
Heptachlor Epoxide	1.50	0.4	365	146	2.92E-05	9.14	NA	133	1.36	3435.8	0.38%	5,260	20	91	76	1825
Total DDT	1.50	0.4	365	146	1.20E-05	9.14	NA	156	1.36	3452.6	0.38%	220,000	836	91	3136	84315
Total PCBs	1.50	0.4	365	146	1.82E-04	9.14	NA	252	1.36	3523.4	0.38%	44,800	170	91	639	180675

Notes:

1 – C<sub>bio</sub> (column Z) is calculated with the following equation (see Section 6.2)

$$C_{bio} = Flux \left[ \frac{1}{k_{bio} R_f + U} + \frac{1}{k_{bl} + U} \right]$$

Chemical	λ	u	SS Rxn	Peclet Number	Approximate Time to Steady Conditions	foc (bio layer)	Maximum of Diffusive or Advective Flux	Reactive Flux	Porewater Concentration (C <sub>bio</sub> ) at Steady State <sup>1</sup>	Sediment Concentration (C <sub>bio</sub> ) at Steady State	Porewater HQ	Sediment (ERM) HQ	Sediment (ERL) HQ
	Reaction Term (=ln2/t <sub>50</sub> )	$\sqrt{v^2 + 4\lambda D}$				Fraction of organic carbon in bioturbation layer (avg of current values)							
	yr <sup>-1</sup>		/cm		years		mg/cm2/yr	mg/cm2/yr	mg/L	mg/kg			
TBT	1.533	393.1	0.021	9.616	89.9	0.015	6.61E-05	4.50E-05	6.03E-05	0.02258	0.14	NA	NA
Benzo[a]anthracene	0.002	365.0	0.001	9.410	824.9	0.015	2.49E-05	2.49E-05	9.35E-06	0.03220	0.19	0.02	0.12
Benzo[a]pyrene	0.477	374.2	0.012	9.410	2809.8	0.015	9.40E-06	8.34E-06	1.35E-06	0.01582	0.03	0.01	0.04
Benzo[b]fluoranthene	0.415	372.8	0.011	9.627	2866.9	0.015	1.25E-05	1.13E-05	1.80E-06	0.02152	0.04	NA	NA
Chrysene	0.060	366.1	0.004	9.586	842.8	0.015	3.66E-05	3.61E-05	1.34E-05	0.04698	0.27	0.02	0.12
Heptachlor Epoxide	0.14	367.6	0.006	9.714	19.0	0.015	4.26E-06	4.12E-06	7.68E-06	0.00060	69.83	NA	NA
Total DDT	0.003	365.1	0.001	9.667	785.6	0.015	1.75E-06	1.75E-06	6.82E-07	0.00224	1.16	0.05	1.42
Total PCBs	0.001	365.0	0.001	9.472	160.2	0.015	2.66E-05	2.66E-05	2.80E-05	0.01871	0.93	0.10	0.82

Notes:

- kbio (particle) cm/yr: 1
- kbl cm/hr: 1
- kbio (water) cm/yr: 100

**Table B-13a**  
**Summary of Chemical Isolation Layer Modeling Results Under Nominal Seepage Velocity Scenario**

Seepage Velocity	Darcy Velocity <sup>1</sup>	Chemical	Porewater Concentration (C <sub>bio</sub> ) at Steady State (mg/L)	Sediment Concentration (W <sub>bio</sub> ) at Steady State (mg/kg)	Hazard Quotients		
					Porewater HQ	ERM Sediment HQ <sup>b</sup>	ERL Sediment HQ <sup>b</sup>
0 cm/yr	0 cm/yr	Heptachlor Epoxide	1.08E-08	8.50E-07	0.10	NA	NA
		Total DDT	2.48E-09	8.14E-06	0.004	0.0002	0.01
365 cm/yr	146 cm/yr	TBT	6.03E-05	2.26E-02	0.14	NA <sup>a</sup>	NA <sup>a</sup>
		Benzo(a)anthracene	9.35E-06	3.22E-02	0.19	0.02	0.12
		Benzo(a)pyrene	1.35E-06	1.58E-02	0.03	0.01	0.04
		Benzo[b]fluoranthene	1.80E-06	2.15E-02	0.04	NA <sup>a</sup>	NA <sup>a</sup>
		Chrysene	1.34E-05	4.70E-02	0.27	0.02	0.12
		Heptachlor Epoxide	7.68E-06	6.02E-04	<b>69.83</b>	NA <sup>a</sup>	NA <sup>a</sup>
		<b>Total DDT</b>	6.82E-07	2.24E-03	<b>1.16</b>	0.05	<b>1.42</b>
		<b>Total PCBs</b>	2.80E-05	1.87E-02	0.93	0.10	0.82

Notes:

a – Sediment guidelines are not available for some analytes

b – ERM (effects range median) and ERL (effects range low) are from Buchman 1999

mg/L – milligrams per liter

mg/kg – milligrams per kilogram

**Table B-13b (30 percent version)**  
**Summary of Chemical Isolation Layer Modeling Results Under Nominal Seepage Velocity Scenario**

Seepage Velocity	Darcy Velocity <sup>1</sup>	Chemical	Porewater Concentration (C <sub>bio</sub> ) at Steady State (mg/L)	Sediment Concentration (W <sub>bio</sub> ) at Steady State (mg/kg)	Hazard Quotients		
					Porewater HQ	ERM Sediment HQ <sup>b</sup>	ERL Sediment HQ <sup>b</sup>
0 cm/yr	0 cm/yr	<b>Total PCBs</b>	2.92E-07	1.94E-04	0.01	0.001	0.009
365 cm/yr	146 cm/yr	TBT	8.98E-05	0.03	0.21	NA <sup>a</sup>	NA <sup>a</sup>
		Benzo(a)anthracene	7.42E-06	0.03	0.15	0.02	0.1
		Benzo(a)pyrene	1.13E-06	0.01	0.02	0.01	0.03
		Chrysene	1.07E-05	0.04	0.22	0.01	0.1
		<b>Total DDT</b>	1.66E-08	0.001	0.03	0.01	0.37
		<b>Total PCBs</b>	6.45E-05	0.04	<b>2.15</b>	0.24	<b>1.89</b>
			4.94E-07	3.29E-04	0.016	0.002	0.014

These results are from 0cm/yr Total PCBs

Notes:

a – Sediment guidelines are not available for TBT.

b – ERM (effects range median) and ERL (effects range low) are from Buchman 1999.

mg/L – milligrams per liter

mg/kg – milligrams per kilogram