

**Appendix G. Table G-1 Enrichment Ratio Summaries
for Subsurface Sediments 0.4-4 ft sample interval**

Unit	Sample ID	Depth Below Mudline (ft)		Cumulative ER for Sample	ER for Hg	ER for 4-methylphenol	TOC (%)	Mercury (SQS = 0.41)		4-Methylphenol (SQS = 670)			Cadmium (SQS = 5.1)			Zinc (SQS = 410)			Benzo(a)anthracene (SQS = 110)			Benzofluoranthenes (SQS = 230)			Chrysene (SQS = 110)			Dibenz(a,h)anthracene (SQS = 12)							
		Top	Bottom					Conc. (mg/kg)	SQS	Conc. (ug/kg)	SQS	ER	(mg/k g)	SQS	ER	Conc. (mg/kg)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	(ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER					
		ASB Sludges																																	
ASB Sludges	GPA-01-A	0	6	101.04	2.50	88.06	33.0	1.1	0.41	59,000	670	88.1	18.0	5.1	3.5	616	410	1.5	0.42	110	0.00	1.76	230	0.00	0.91	M	110	0.00	0.09	U	12	0.00			
ASB Sludges	GPA-01-B1	6.5	11.5	--	--	--	34.0	7.0	0.41	42,000	670	62.7	18.0	5.1	3.5	667	410	1.6	0.07	U	110	0.00	1.94	230	0.00	0.09	U	110	0.00	0.08	U	12	0.00		
ASB Sludges	GPA-02-A	0	2.1	--	--	--	31.0	2.6	0.41	170,000	670	253.7	13.0	5.1	2.5	438	410	1.1	0.08	U	110	0.00	0.30	U	230	0.00	0.10	U	110	0.00	0.09	U	12	0.00	
ASB Sludges	GPA-02-B1	2.1	4	178.84	6.50	120.28	28.0	6.0	0.41	56,000	670	83.6	8.5	5.1	1.7	474	410	1.2	9.29	110	0.00	32.50	230	0.00	16.79	110	0.00	5.71		12	0.00				
ASB Sludges	GPA-02-B2	4	8.5	--	--	--	32.0	20.2	0.41	34	U	670	0.0	14.5	5.1	2.8	3,500	410	8.5	0.08	U	110	0.00	0.31	U	230	0.00	0.10	U	110	0.00	0.09	U	12	0.00
ASB Sludges	GPA-03-A	0	2.6	--	--	--	29.0	1.9	0.41	98,000	670	146.3	21.0	5.1	4.1	544	410	1.3	0.09	U	110	0.00	0.33	U	230	0.00	0.10	U	110	0.00	0.10	U	12	0.00	
ASB Sludges	GPA-03-B1	2.7	5	99.43	4.19	88.41	31.0	5.3	0.41	48,000	670	71.6	9.0	5.1	1.8	422	410	1.0	0.08	U	110	0.00	1.48	M	230	0.00	0.10	U	110	0.00	0.09	U	12	0.00	
ASB Sludges	GPA-04-A	0	4	57.14	16.90	34.93	44.0	7.7	0.41	26,000	670	38.8	9.0	5.1	1.8	501	410	1.2	0.06	U	110	0.00	1.98	M	230	0.00	0.07	U	110	0.00	0.06	U	12	0.00	
ASB Sludges	GPA-04-B1	4.5	7	--	--	--	42.0	5.1	0.41	7,700	670	11.5	11.0	5.1	2.2	659	410	1.6	0.20	U	110	0.00	24.52	M	230	0.00	0.23	U	110	0.00	0.22	U	12	0.00	
ASB Sludges	GPA-05-A	0	6.5	33.16	0.00	51.83	28.0	0.40	0.41	37,000	670	55.2	3.5	5.1	0.0	179	410	0.0	0.09	U	110	0.00	0.33	U	230	0.00	0.10	U	110	0.00	0.10	U	12	0.00	
Unit 1C	HC-DC-86-S1	0	1.9	--	--	--	2.3	0.24	0.41	150	670	0	1.3	U	5.1	0	61	410	0	82.6	110	0	104.4	230	0	121.74	110	1.11	13.04		12	1.09			
Unit 1C	HC-DC-86-S2	1.9	3.8	1.92	0.42	0.00	2.3	0.51	0.41	120	670	0	1.1	U	5.1	0	73	410	0	78.3	110	0	95.7	230	0	100.00	110	0	12.61		12	1.05			
Unit 1C	HC-DC-87-S1*	0	2.3	--	--	--	3.4	1.35	0.41	5.85	670	0	1.5	5.1	0	190	410	0	217.7	110	1.98	323.5	230	1.41	411.76	110	3.74	18.53		12	1.54				
Unit 1C	HC-DC-87-S2	2.3	3.8	23.24	5.51	0.29	4.2	7.50	0.41	880	670	1.31	2.1	5.1	0	150	410	0	73.8	110	0	64.3	230	0	88.10	110	0	6.19		12	0				
Unit 1C	HC-DC-88-S1	0	1.6	--	--	--	3.7	0.67	0.41	140	670	0	0.9	U	5.1	0	68	410	0	94.6	110	0	135.1	230	0	132.43	110	1.20	10.27		12	0			
Unit 1C	HC-DC-88-S2	1.6	3.8	4.85	2.79	0.46	5.5	2.20	0.41	690	670	1.03	1.5	5.1	0	110	410	0	43.6	110	0	63.6	230	0	61.82	110	0	6.73		12	0				
Unit 1C	HC-DC-89-S1	0	1.6	--	--	--	3.4	6.40	0.41	590	670	0	0.86	5.1	0	140	410	0	70.6	110	0	47.5	230	0.00	100.00	110	0	14.41		12	1.20				
Unit 1C	HC-DC-89-S2	1.6	3.8	77.40	50.52	3.05	9.4	43	0.41	4600	670	6.87	2.5	5.1	0	230	410	0	29.8	110	0	27.7	230	0	30.85	110	0	2.23		12	0				
Unit 1C	HC-VC-71-S1	0	1.6	--	--	--	2.7	4.30	0.41	270	670	0	1.3	5.1	0	100	410	0	10.0	110	0	11.5	230	0	14.07	110	0	2.70		12	0				
Unit 1C	HC-VC-71-S2	1.6	4.8	7.93	7.25	0.00	2.6	4.50	0.41	280	670	0	1.5	5.1	0	100	410	0	46.2	110	0	46.2	230	0	57.69	110	0	6.15		12	0				
Unit 1C	HC-VC-72-S1	0	3.2	5.55	5.55	0.00	3.1	2.60	0.41	73	670	0	1.7	5.1	0	120	410	0	11.0	110	0	13.6	230	0	14.19	110	0	2.06		12	0				
Unit 1D																																			
Unit 1D	HC-VC-73-S1	0	1.9	--	--	--	3.7	2.00	0.41	480	670	0	1.5	5.1	0	110	410	0	10.00	110	0	16.22	230	0	13.78	110	0	2.68		12	0				
Unit 1D	HC-VC-73-S2	1.9	4.6	5.92	4.84	0.76	4.7	3.90	0.41	1500	670	2.24	2.3	5.1	0	140	410	0	3.83	110	0	4.04	230	0	4.68	110	0	0.91		12	0				
Unit 1D	HC-VC-73-S3	5.1	7.4	--	--	--	--	0.56	0.41	--	0	0	--	0	0	--	0	0	--	0	0	--	0	0	--	0	0	--	0	0	0				
Unit 1D	HC-VC-77-S1	0	2.1	--	--	--	4.8	11.00	0.41	1000	670	1.49	2	5.1	0	140	410	0	25.00	110	0	31.25	230	0	35.42	110	0	4.38		12	0				
Unit 1D	HC-VC-77-S2	2.1	3.9	19.12	15.01	1.07	49 **	7.00	0.41	1200	670	1.79	1.9	5.1	0	120	410	0	0.76	110	0	1.10	230	0	1.10	110	0	0.20		12	0				
Unit 1D	HC-VC-78-S1	0	2.4	--	--	--	5.6	2.10	0.41	610	670	0	1.8	5.1	0	130	410	0	3.57	110	0	6.43	230	0	5.18	110	0	1.13		12	0				
Unit 1D	HC-VC-78-S2	2.7	4	3.28	2.86	0.16	2.0	0.42	0.41	810	670	1.21	0.81	5.1	0	61	410	0	3.65	110	0	3.55	230	0	4.05	110	0	2.30		12	0				
Unit 1D	HC-VC-79-S1	0	2	--	--	--	5.7	8.10	0.41	3200	670	4.78	4.6	5.1	0	460	410	1.12	3.51	110	0	4.56	230	0	4.91	110	0	0.91		12	0				
Unit 1D	HC-VC-79-S2	2	3.8	14.97	8.60	3.18	4.5	2.20	0.41	3400	670	5.07	4.7	5.1	0	570	410	1.39	5.33	110	0	6.89	230	0	7.11	110	0	1.27		12	0				
Unit 1D	HC-VC-79-S3	4	4.9	--	--	--	0.5	0.13	U	0.41	74	670	0.00	0.9	5.1	0	82	410	0	6.44	110	0	3.33	230	0	6.67	110	0	9.11		12	0			
Unit 1D	HC-VC-79-S4	4.9	7	--	--	--	0.3	0.14	0.41	22	670	0.00	0.9	5.1	0	74	410	0	8.48	110	0	2.24	230	0	3.33	E	110	0	11.82		12	0			
Unit 2A/2B																																			
Unit 2A/B	HC-DC-91-S1	0	1.6	--	--	--	6.1	0.93	0.41	300	670	0	1.4	5.1	0	140	410	0	32.8	110	0	47.54	230	0	36.07	110	0	4.43		12	0				
Unit 2A/B	HC-DC-91-S2	1.6	3	6.88	2.30	0.66	11.0	1.60	0.41	1000	670	1.49	2.5	5.1	0	170	410	0	4.82	110	0	6.91	230	0	5.27	110	0	0.25		12	0				
Unit 2A/B	HC-DC-92-S1	0	1.4	--	--	--	3.0	0.31	0.41	560	670	0.00	1.30	5.1	0.00	270	410	0	73.3	110	0	100.00	230	0	96.67	110	0	9.33		12	0				
Unit 2A/B	HC-DC-92-S2	1.4	2.8	3.30	0.64	0.93	5.7	0.50	0.41	1200	670	1.79	1.2	5.1	0	140	410	0	10.9	110	0	19.30	230	0	14.39	110	0	0.65		12	0				
Unit 2A/B	HC-VC-80-S1	0	1.7	--	--	--	4.5	1.00	0.41	3200	670	4.78	2	5.1	0	150	410	0	9.11	110	0	15.33	230	0	12.22	110	0	2.67		12	0				
Unit 2A/B	HC-VC-80-S2	1.9	5.3	21.50	10.63	11.98	14.0	12.00	0.41	21000	670	31.34	5.6	5.1	1.1	280	410	0	1.07	110	0	3.29	230	0	4.43	110	0	0.64		12	0				
Unit 3A/B																																			
Unit 3A/B	HC-VC-81-S1	0	1.6	--	--	--	4.0	0.93	0.41	1100	670	1.64	1.6	5.1	0	160	410	0	17.75	110	0	32.50	230	0	25.00	110	0	1.75	U	12	0				
Unit 3A/B	HC-VC-81-S2	1.6	3.2	9.20																															

**Appendix G. Table G-1 Enrichment Ratio Summaries
for Subsurface Sediments 0.4-4 ft sample interval**

Unit	Sample ID	Depth Below Mudline (ft)		Cumulative ER for Sample	ER for Hg	ER for 4-methylphenol	TOC (%)	Mercury (SQS = 0.41)		4-Methylphenol (SQS = 670)			Cadmium (SQS = 5.1)			Zinc (SQS = 410)			Benzo(a)anthracene (SQS = 110)			Benzofluoranthenes (SQS = 230)			Chrysene (SQS = 110)			Dibenz(a,h)anthracene (SQS = 12)						
		Top	Bottom					Conc. (mg/kg)	SQS	Conc. (ug/kg)	SQS	ER	(mg/kg)	SQS	ER	Conc. (mg/kg)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	(ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER				
		Log Pond	HC-VC-75-S1					0	3.3	16.85	15.61	1.24	12.0	6.40	0.41	830	670	1.24	1.6	5.1	0	130	410	0	5.35	110	0	6.67	230	0	7.98	110	0	1.00
Log Pond	HC-VC-76-S1	0	3.5	--	--	--	10.0	1.30	0.41	440	670	0.00	1.8	5.1	0	140	410	0	4.50	110	0	6.30	230	0	6.30	110	0	1.00	12	0				
Log Pond	HC-VC-76-S2	3.5	7.9	2.43	2.46	0.04	9.5	0.96	0.41	1500	670	2.24	1.3	5.1	0	100	410	0	4.21	110	0	4.74	230	0	5.58	110	0	0.61	12	0				
Unit 1C																																		
HC-VC-83	HC-VC-83-S1	0	2.6	2.96	--	--	3.5	1.40	0.41	160	670	0.00	1.4	5.1	0	110	410	0	2.17	110	0.00	3.95	230	0	2.89	110	0.03	0.71	J	12	0.06			
HC-VC-84	HC-VC-84-S1	0	1.4	--	--	--	2.0	0.65	0.41	100	670	0.00	1.1	5.1	0	100	410	0	7.51	110	0.07	4.14	230	0	3.24	J	110	0.03	0.66	J	12	0.05		
HC-VC-84	HC-VC-84-S2	2	4.9	2.27	2.16	0.00	5.4	2.20	0.41	490	670	0	2.1	5.1	0	140	410	0	1.05	110	0.00	2.43	230	0	2.43	J	110	0.00	0.57	J	12	0.00		
HC-VC-85	HC-VC-85-S1	0	4.5	2.11	--	--	2.3	0.88	0.41	200	670	0	1.4	5.1	0	130	410	0	2.25	110	0.00	12.14	230	0	10.24	J	110	0.09	1.93	J	12	0.00		
HC-VC-95	HC-VC-95-C1	0	2.9	--	--	--	1.7	0.68	0.41	460	670	0.00	0.85	U	5.1	0	69	410	0	0.82	U	110	0.00	0.83	230	0	1.06	110	0.00	0.96	U	12	0.00	
HC-VC-95	HC-VC-95-C2	1.9	5.9	1.86	2.72	0.00	1.9	0.15	0.41	260	670	0.00	0.67	U	5.1	0	37	410	0	1.47	U	110	0.00	0.73	230	0	0.46	J	110	0.00	0.85	U	12	0.07
HC-VC-96	HC-VC-96-C1	0	6	9.07	7.52	7.63	15.1	2.70	0.41	4600	670	6.87	3.4	5.1	0	280	410	0	0.51	110	0.00	3.38	230	0	3.28	110	0.00	1.29	U	12	0.00			
HC-VC-94	HC-VC-94-C1	0	4.1	2.86	3.30	0.00	3.3	1.30	0.41	130	670	0.00	1.1	5.1	0	83	410	0	2.01	J	110	0.00	1.70	230	0	1.39	J	110	0.00	2.61	U	12	0.00	
HC-VC-97	HC-VC-97-C1	0	5	9.39	4.04	5.46	5.7	1.80	0.41	3900	670	5.8209	1.7	5.1	0	190	410	0	0.19	110	0.00	6.84	230	0	6.32	110	0.00	1.26	U	12	0.00			

Notes:

U = Compound not detected at the indicated reporting limit.

-- Not tested in this sample.

*: Multiple PAH compounds exceeded the SQS in this sample, but all PAH compounds were below the SQS in a matching duplicate sample, indicating that the PAH contamination is extremely localized in this area.

**: Value is an outlier. Not included in average calculation.

Pre 1996 Data excluded from analysis

Calculating the ER Values:

For compounds with a measured concentration below the SQS, the ER for that compound was assigned a value of zero.

Enrichment calculated only for compounds detected above SQS in at least 2 or more samples, or in samples at ER values of greater than 2X. ER values not calculated for pentachlorophenol, benzoic acid and di-n-octylphthalate based on these criteria.

Dioxins not included in enrichment ratio calculations, because SQS values are not available for these compounds. Dioxins were elevated within the ASB sludges.

Depth interval determination:

1. For samples with only one sample point that was less than 12 inches - sample point was not used
2. For data with 2 partial intervals, the resulting average value was found by dividing the resulting concentration by the proportional volume
3. For data with partial intervals and data gaps between, data was extended down
4. Any data below 4 feet or above 0.4 feet was not used in the cumulative ER value
5. For data below the detection limit, one half of the detection limit was used and the above assumptions were applied.
6. Samples shallower than 4 feet were extend to 4 feet

**Appendix G. Table G-1 Enrichment Ratio Summaries
for Subsurface Sediments 0.4-4 ft sample interval**

Unit	Sample ID	Depth Below Mudline (ft)		Cumulative ER for Sample	ER for Hg	ER for 4-methylpenol	Fluoranthene (SQS = 160)			Pyrene (SQS = 1000)			Acenaphthene (SQS = 16)			Fluorene (SQS = 23)			Naphthalene (SQS = 99)			Phenanthrene (SQS = 100)			Dibenzofuran (SQS = 15)						
		Top	Bottom				Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	ppm TOC	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER				
		ASB Sludges																													
ASB Sludges	GPA-01-A	0	6	101.04	2.50	88.06	7.88	160	0.00	5.8	1000	0.00	0.7	16	0.00	0.8	23	0.00	23.6	99	0.00	10.3	100	0.00	0.0	nt	15	0.00			
ASB Sludges	GPA-01-B1	6.5	11.5	--	--	--	6.18	160	0.00	5.3	M	1000	0.00	0.7	16	0.00	0.8	23	0.00	16.5	99	0.00	8.2	100	0.00	0.0	nt	15	0.00		
ASB Sludges	GPA-02-A	0	2.1	--	--	--	2.97	160	0.00	2.3	1000	0.00	1.1	16	0.00	0.4	23	0.00	48.4	99	0.00	4.8	100	0.00	0.0	nt	15	0.00			
ASB Sludges	GPA-02-B1	2.1	4	178.84	6.50	120.28	114.29	160	0.00	114.3	1000	0.00	7.9	16	0.00	4.3	23	0.00	121.4	99	1.23	107.1	100	1.07	0.0	nt	15	0.00			
ASB Sludges	GPA-02-B2	4	8.5	--	--	--	0.66	160	0.00	0.7	1000	0.00	0.1	U	16	0.00	0.1	U	23	0.00	0.1	U	99	0.00	0.6	100	0.00	0.0	nt	15	0.00
ASB Sludges	GPA-03-A	0	2.6	--	--	--	3.31	160	0.00	2.4	1000	0.00	0.8	16	0.00	0.7	23	0.00	19.7	99	0.00	5.2	100	0.00	0.0	nt	15	0.00			
ASB Sludges	GPA-03-B1	2.7	5	99.43	4.19	88.41	6.13	160	0.00	5.5	1000	0.00	1.5	16	0.00	1.0	23	0.00	21.3	99	0.00	9.0	100	0.00	0.0	nt	15	0.00			
ASB Sludges	GPA-04-A	0	4	57.14	16.90	34.93	4.77	160	0.00	5.0	1000	0.00	0.4	16	0.00	0.3	23	0.00	10.9	99	0.00	5.9	100	0.00	0.0	nt	15	0.00			
ASB Sludges	GPA-04-B1	4.5	7	--	--	--	20.95	160	0.00	26.2	1000	0.00	1.1	16	0.00	1.5	23	0.00	15.2	99	0.00	23.8	100	0.00	0.0	nt	15	0.00			
ASB Sludges	GPA-05-A	0	6.5	33.16	0.00	51.83	0.36	160	0.00	0.4	1000	0.00	0.1	U	16	0.00	0.1	U	23	0.00	5.4	99	0.00	0.5	100	0.00	0.0	nt	15	0.00	
Unit 1C	HC-DC-86-S1	0	1.9	--	--	--	139	160	0	152	1000	0	8.7	16	0	16.5	23	0	6.52	99	0	60.9	100	0	9.57	15	0				
Unit 1C	HC-DC-86-S2	1.9	3.8	1.92	0.42	0.00	122	160	0	126	1000	0	5.65	16	0	8.7	23	0	3.39	99	0	22.2	100	0	4.17	15	0				
Unit 1C	HC-DC-87-S1*	0	2.3	--	--	--	1441	160	9.01	1206	1000	1.21	26.2	16	1.6	49.0	23	2.13	14.7	99	0	640	100	6.40	38.2	15	2.55				
Unit 1C	HC-DC-87-S2	2.3	3.8	23.24	5.51	0.29	160	160	0	181	1000	0	14.7	16	0.0	15.7	23	0	19.3	99	0	40.5	100	0	10.2	15	0				
Unit 1C	HC-DC-88-S1	0	1.6	--	--	--	168	160	1.05	246	1000	0	5.41	16	0.0	12.4	23	0	9.46	99	0	43.2	100	0	7.3	15	0				
Unit 1C	HC-DC-88-S2	1.6	3.8	4.85	2.79	0.46	85.5	160	0	0.84	U	1000	0	12	16	0.0	12.6	23	0	12.4	99	0	34.6	100	0	7.82	15	0			
Unit 1C	HC-DC-89-S1	0	1.6	--	--	--	73.5	160	0	182	1000	0	17.4	16	1.1	15	23	0	17.4	99	0	50.0	100	0	11.2	15	0				
Unit 1C	HC-DC-89-S2	1.6	3.8	77.40	50.52	3.05	138	160	0	138	1000	0	36.2	16	2.3	30.9	23	1.34	34.0	99	0	66.0	100	0	22.3	15	1.49				
Unit 1C	HC-VC-71-S1	0	1.6	--	--	--	15.9	160	0	24.1	1000	0	1.33	16	0.0	2.15	23	0	2.15	99	0	3.52	100	0	1.63	15	0				
Unit 1C	HC-VC-71-S2	1.6	4.8	7.93	7.25	0.00	92.3	160	0	88.5	1000	0	28.1	16	1.8	21.9	23	0	13.5	99	0	57.7	100	0	11.9	15	0				
Unit 1C	HC-VC-72-S1	0	3.2	5.55	5.55	0.00	31.0	160	0	38.7	1000	0	5.48	16	0	7.42	23	0	16.8	99	0	20.0	100	0	5.16	15	0				
Unit 1D																															
Unit 1D	HC-VC-73-S1	0	1.9	--	--	--	17.3	160	0	27.0	1000	0	2.97	16	0	3.51	23	0	7.03	99	0	11.1	100	0	3.78	15	0				
Unit 1D	HC-VC-73-S2	1.9	4.6	5.92	4.84	0.76	13.6	160	0	11.1	1000	0	2.77	16	0	4.26	23	0	7.23	99	0	14.9	100	0	2.55	15	0				
Unit 1D	HC-VC-73-S3	5.1	7.4	--	--	--	--	--	0	--	--	0	--	--	0	--	--	0	--	--	0	--	--	0	--	--	0				
Unit 1D	HC-VC-77-S1	0	2.1	--	--	--	31.3	160	0	35.4	1000	0	3.96	16	0	7.08	23	0	6.67	99	0	17.9	100	0	4.17	15	0				
Unit 1D	HC-VC-77-S2	2.1	3.9	19.12	15.01	1.07	1.78	160	0	2.0	1000	0	0.27	16	0	0.39	23	0	1.18	99	0	1.27	100	0	0.31	15	0				
Unit 1D	HC-VC-78-S1	0	2.4	--	--	--	8.21	160	0	10.0	1000	0	0.91	16	0	1.54	23	0	4.46	99	0	5.71	100	0	1.50	E	15	0			
Unit 1D	HC-VC-78-S2	2.7	4	3.28	2.86	0.16	14.5	160	0	11.0	1000	0	2.7	16	0	4.00	23	0	5	99	0	17	100	0	2.45	E	15	0			
Unit 1D	HC-VC-79-S1	0	2	--	--	--	10.4	160	0	8.1	1000	0	2.98	16	0	3.86	23	0	9.47	99	0	14.4	100	0	2.11	15	0				
Unit 1D	HC-VC-79-S2	2	3.8	14.97	8.60	3.18	16.2	160	0	14.4	1000	0	4.67	16	0	6.22	23	0	17.8	99	0	24.4	100	0	3.56	15	0				
Unit 1D	HC-VC-79-S3	4	4.9	--	--	--	6.00	160	0	10.4	1000	0	1.53	16	0	4.67	23	0	7.78	99	0	15.6	100	0	1.62	15	0				
Unit 1D	HC-VC-79-S4	4.9	7	--	--	--	7.27	160	0	4.2	1000	0	6.36	16	0	4.55	23	0	2.67	99	0	13.0	100	0	6.67	15	0				
Unit 2A/2B																															
Unit 2A/B	HC-DC-91-S1	0	1.6	--	--	--	44.3	160	0	118	1000	0	6.89	16	0	7.87	23	0	8.36	99	0	21.3	100	0	7.87	15	0				
Unit 2A/B	HC-DC-91-S2	1.6	3	6.88	2.30	0.66	15.5	160	0	19.1	1000	0	1.91	16	0	2.73	23	0	3.27	99	0	6.2	100	0	2.18	15	0				
Unit 2A/B	HC-DC-92-S1	0	1.4	--	--	--	203	160	1.27	203	1000	0	22.33	16	1.40	22.3	23	0	46.7	99	0	70.0	100	0	24.3	15	1.62				
Unit 2A/B	HC-DC-92-S2	1.4	2.8	3.30	0.64	0.93	35.1	160	0	54.4	1000	0	5.09	16	0	6.32	23	0	50.9	99	0	36.8	100	0	11.4	15	0				
Unit 2A/B	HC-VC-80-S1	0	1.7	--	--	--	21.6	160	0	26.7	1000	0	4	16	0	5.56	23	0	24.4	99	0	19.8	100	0	6.00	15	0				
Unit 2A/B	HC-VC-80-S2	1.9	5.3	21.50	10.63	11.98	8.6	160	0	6.1	1000	0	3.07	16	0	5.2	23	0	6.71	99	0	22.1	100	0	0.43	U	15	0			
Unit 3A/B																															
Unit 3A/B	HC-VC-81-S1	0	1.6	--	--	--	35.0	160	0	55.0	1000	0	5.5	16	0	6.75	23	0	20.8	99	0	25.0	100	0	7.00	15	0				
Unit 3A/B	HC-VC-81-S2	1.6	3.2	9.20	1.87	4.13	38.2	160	0	45.5	1000	0	11.45	16	0	12.4	23	0	30.9	99	0	34.6	100	0	11.8	15	0				
Unit 3C																															
Unit 3C	HC-DC-93-S1	0	2	0.86	0.00	0.00	13.1	160	0	18.1	1000	--	1.19	16	0	8.08	23	0	8.08	99	--	11.54	100	0	3.50	15	0				
Unit 3C	HC-VC-82-S1	0	2.3	--	--	--	19.4	160	0	20.9	1000	0	3.88	16	0	5.22	23	0	13.9	99	0	11.8	100	0	4.78	15	0				
Unit 3C	HC-VC-82-S2	2.3	5.2	10.88	2.57	8.01	15.5	160	0	7.9	1000	0	4.91	16	0	6.27	23	0	20.0	99	0	0.160	100	0	3.64	15	0				
Unit 3C	HC-VC-82-S3	5.3	6.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--					
Unit 1A/B																															
Unit 1A/B	AN PC CMP1	0	4	2.46	2.22	0.00	3.08	160	0	2.68	1000	0	0.80	U	16	0	0.80	U	23	0	1.44	99	0	2.36	100	0	0.60	J	15	0	
Unit 1A/B	AN PC CMP2	0	4	2.20	1.98	0.00	2.96	160	0	2.91	1000	0	0.87	U	16	0	0.														

**Appendix G. Table G-1 Enrichment Ratio Summaries
for Subsurface Sediments 0.4-4 ft sample interval**

Unit	Sample ID	Depth Below Mudline (ft)		Cumulative ER for Sample	ER for Hg	ER for 4-methylpenol	Fluoranthene (SQS = 160)			Pyrene (SQS = 1000)			Acenaphthene (SQS = 16)			Fluorene (SQS = 23)			Naphthalene (SQS = 99)			Phenanthrene (SQS = 100)			Dibenzofuran (SQS = 15)							
		Top	Bottom				Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	(ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER					
		Log Pond	HC-VC-75-S1				0	3.3	16.85	15.61	1.24	20.2	160	0	15.2	1000	0	2.39	16	0	4.44	23	0	3.13	99	0	12.1	100	0	2.63	15	0
Log Pond	HC-VC-76-S1	0	3.5	--	--	--	14.0	160	0	13.0	1000	0	0.8	16	0	3.5	23	0	1.90	99	0	1.10	100	0	1.4	15	0					
Log Pond	HC-VC-76-S2	3.5	7.9	2.43	2.46	0.04	19.0	160	0	14.7	1000	0	10.53	16	0	21.1	23	0	3.37	99	0	10.0	100	0	6.95	15	0					
Unit 1C																																
HC-VC-83	HC-VC-83-S1	0	2.6	2.96	--	--	6.1	160	0.00		1000	0	0.79	J	16	0.00	1.50	23	0.00	---	99	0	5.26	100	0	1.87	15	0				
HC-VC-84	HC-VC-84-S1	0	1.4	--	--	--	5.5	J	160	0.03		1000	0	0.52	J	16	0.03	1.03	J	23	0.04	---	99	0	4.14	J	100	0.04	1.41	J	15	0
HC-VC-84	HC-VC-84-S2	2	4.9	2.27	2.16	0.00	5.6	J	160	0.00		1000	0	0.90	J	16	0.00	2.00	J	23	0.00	---	99	0	4.57	J	100	0	2.00	J	15	0
HC-VC-85	HC-VC-85-S1	0	4.5	2.11	--	--	13.1	J	160	0.08		1000	0	1.88	J	16	0.00	2.86	J	23	0.00	---	99	0	8.10	J	100	0	3.81	J	15	0
HC-VC-95	HC-VC-95-C1	0	2.9	--	--	--	2.5	160	0.00		1000	0	0.38	J	16	0.00	0.85	23	0.00	---	99	0	1.68	100	0	1.66	15	0				
HC-VC-95	HC-VC-95-C2	1.9	5.9	1.86	2.72	0.00	1.9	160	0.00		1000	0	0.54	16	0.03	1.21	23	0.00	---	99	0	1.85	100	0	2.50	15	0					
HC-VC-96	HC-VC-96-C1	0	6	9.07	7.52	7.63	8.4	160	0.00		1000	0	2.24	16	0.14	2.41	23	0.10	---	99	0	8.10	100	0	1.64	15	0					
HC-VC-94	HC-VC-94-C1	0	4.1	2.86	3.30	0.00	2.9	160	0.00		1000	0	1.43	U	16	0.09	0.57	J	23	0.00	---	99	0	2.09	100	0	0.61	J	15	0		
HC-VC-97	HC-VC-97-C1	0	5	9.39	4.04	5.46	11.8	160	0.00		1000	0	1.93	16	0.00	2.46	23	0.00	---	99	0	8.07	100	0	1.75	15	0					

Notes:
 U = Compound not detected at the indicated reporting limit.
 --- Not tested in this sample.
 *: Multiple PAH compounds exceeded the SQS in this sample, but all PAH compounds were below the SQS in a matching duplicate sample, indicate
 **: Value is an outlier. Not included in average calculation.
 Pre 1996 Data excluded from analysis

Calculating the ER Values:
 For compounds with a measured concentration below the SQS, the ER for that compound was assigned a value of zero.
 Enrichment calculated only for compounds detected above SQS in at least 2 or more samples, or in samples at ER values of greater than 2X. ER v
 Dioxins not included in enrichment ratio calculations, because SQS values are not available for these compounds. Dioxins were elevated within the
 Depth interval determination:
 1. For samples with only one sample point that was less than 12 inches - sample point was not used
 2. For data with 2 partial intervals, the resulting average value was found by dividing the resulting concentration by the proportional volume
 3. For data with partial intervals and data gaps between, data was extended down
 4. Any data below 4 feet or above 0.4 feet was not used in the cumulative ER value
 5. For data below the detection limit, one half of the detection limit was used and the above assumptions were applied.
 6. Samples shallower than 4 feet were extend to 4 feet

**Appendix G. Table G-1 Enrichment Ratio Summaries
for Subsurface Sediments 0.4-4 ft sample interval**

Unit	Sample ID	Depth Below Mudline (ft)		Cumulative ER for Sample	ER for Hg	ER for 4-methylpenol	Hexachlorobenzene (SQS = 0.38)			Bis(2-ethylhexyl)phthalate (SQS = 47)			Butyl Benzyl Phthalate (SQS = 4.9)			2,4-Dimethylphenol (SQS = 29)			Phenol (SQS = 420)		
		Top	Bottom				Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ppm TOC)	SQS	ER	Conc. (ug/kg)	SQS	ER	Conc. (ug/kg)	SQS	ER
Log Pond	HC-VC-75-S1	0	3.3	16.85	15.61	1.24	0.14	0.38	0	2.63	47	0	0.33	4.9	0	5.5	29	0	310	420	0
Log Pond	HC-VC-76-S1	0	3.5	--	--	--	0.06	0.38	0	2.40	47	0	0.41	4.9	0	5.6	29	0	50	420	0
Log Pond	HC-VC-76-S2	3.5	7.9	2.43	2.46	0.04	0.04	0.38	0	2.42	47	0	0.79	4.9	0	5.5	29	0	38	420	0
Unit 1C																					
HC-VC-83	HC-VC-83-S1	0	2.6	2.96	--	--	0.18	0.38	0.00	5.00 B	47	0	1.76 U	4.9	0	26 J	29	0	300 B	420	0
HC-VC-84	HC-VC-84-S1	0	1.4	--	--	--	0.16	0.38	0.00	5.17 JB	47	0	0.69 J	4.9	0	16 J	29	0	100 JB	420	0
HC-VC-84	HC-VC-84-S2	2	4.9	2.27	2.16	0.00	0.26	0.38	0	4.71 JB	47	0	0.34 J	4.9	0	74 J	29	0	86 JB	420	0
HC-VC-85	HC-VC-85-S1	0	4.5	2.11	--	--	0.17	0.38	0.00	50.00 JB	47	0	1.71 J	4.9	0	38 J	29	0.00	280 JB	420	0
HC-VC-95	HC-VC-95-C1	0	2.9	--	--	--	0.04	0.38	0	6.79 B	47	0	0.96 U	4.9	0	190	29	0.00	160 B	420	0
HC-VC-95	HC-VC-95-C2	1.9	5.9	1.86	2.72	0.00	0.04 U	0.38	0	0.48 JB	47	0	0.83 U	4.9	1.3796	120	29	0.00	63 B	420	0
HC-VC-96	HC-VC-96-C1	0	6	9.07	7.52	7.63	0.40	0.38	1	7.93 B	47	0	1.29 U	4.9	0	8 J	29	0.28	210 B	420	0
HC-VC-94	HC-VC-94-C1	0	4.1	2.86	3.30	0.00	0.18	0.38	0	1.65 JB	47	0	2.61 U	4.9	0	14 J	29	0	34 B	420	0
HC-VC-97	HC-VC-97-C1	0	5	9.39	4.04	5.46	0.23	0.38	0	9.82 B	47	0	0.67 J	4.9	0	8.8 J	29	0	190 B	420	0

Notes:

U = Compound not detected at the indicated reporting limit.

-- Not tested in this sample.

*: Multiple PAH compounds exceeded the SQS in this sample, but all PAH compounds were below the SQS in a matching duplicate sample, indicate

** Value is an outlier. Not included in average calculation.

Pre 1996 Data excluded from analysis

Calculating the ER Values:

For compounds with a measured concentration below the SQS, the ER for that compound was assigned a value of zero.

Enrichment calculated only for compounds detected above SQS in at least 2 or more samples, or in samples at ER values of greater than 2X. ER v

Dioxins not included in enrichment ratio calculations, because SQS values are not available for these compounds. Dioxins were elevated within the

Depth interval determination:

1. For samples with only one sample point that was less than 12 inches - sample point was not used
2. For data with 2 partial intervals, the resulting average value was found by dividing the resulting concentration by the proportional volume
3. For data with partial intervals and data gaps between, data was extended down
4. Any data below 4 feet or above 0.4 feet was not used in the cumulative ER value
5. For data below the detection limit, one half of the detection limit was used and the above assumptions were applied.
6. Samples shallower than 4 feet were extend to 4 feet

**Appendix G. Table G-2 Enrichment Ratio Summaries
for Subsurface Sediments 0.4-4 ft sample interval
I&J Waterway Samples and PSDDA Evaluation Samples**

	SQS	HC-VC-94-C1 SAMPLE DEPTH = 0-4.1	ER Value	HC-VC-95-C1 SAMPLE DEPTH = 0-2.9	ER Value	HC-VC-96-C1 SAMPLE DEPTH = 0-6	ER Value	HC-VC-97-C1 SAMPLE DEPTH = 0-5	ER Value	IJ-C3-S1 SAMPLE DEPTH = 0-3.5	ER Value	IJ-C4-S1 SAMPLE DEPTH = 0-3.5	ER Value	IJ-C5-S1 SAMPLE DEPTH = 0-3.5	ER Value	IJ-C6-S1 SAMPLE DEPTH = 0-3.5	ER Value																
Conventional																																	
Total Organic Carbon (%)	NV	2.3		5.3		5.8		5.7		2.98		7.08		3.22		7.03																	
Metals - mg/kg		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)																	
Arsenic	57	11	0.17	5.8	0.09	12	0.21	8.2	0.14	10	0.18	10	0.18	10	U	0.00	10	U	0.00														
Cadmium	5.1	1.1	0.19	0.85	U	0.00	0.00	1.7	0.33	0.6	0.12	0.6	0.12	0.7	0.14	0.9	0.18	0.9	0.18														
Chromium	260	58	0.20	41	0.14	79	0.30	69	0.27	68.3	0.26	60	0.23	68	0.26	55	0.21	55	0.21														
Copper	390	44	0.10	39	0.09	79	0.20	73	0.19	62.3	0.16	55.9	0.14	61.8	0.16	59	0.15	59	0.15														
Lead	450	15	0.03	12	0.02	120	0.27	140	0.31	22	0.05	26	0.06	27	0.06	66	0.15	66	0.15														
Mercury	0.41	1.30	1.17	2.85	0.612	1.49	2.70	6.59	1.80	0.70	1.71	0.43	1.05	0.74	1.80	1.00	2.44	1.00	2.44														
Silver	6.1	0.22	0.03	0.19	U	0.00	0.8	0.13	1	0.6	U	0.6	U	0.7	U	0.00	0.6	U	0.00														
Zinc	410	83	0.18	69	0.15	280	0.68	190	0.46	128	0.31	113	0.28	131	0.32	134	0.33	134	0.33														
LPAH	(ppm TOC)	(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)																	
Naphthalene	99	0.043	1.870	J	0.02	0.200	3.774	0.03	0.200	4.912	0.05	0.019	0.826	J	0.01	0.033	0.623	0.00	0.031	0.534	0.01	0.110	1.930	0.02									
Acenaphthylene	66	<0.030	<0.671	U	0.00	0.017	0.321	0.00	0.017	0.404	0.01	<0.020	<0.671	U	0.00	0.016	0.302	J	0.00	<0.020	<0.621	U	0.00	0.014	0.246	J	0.00						
Acenaphthene	16	<0.0330	0.000	J	0.00	0.130	2.453	0.14	0.130	2.241	0.14	0.010	0.435	J	0.02	0.017	0.321	J	0.02	0.032	0.552	0.06	0.062	1.088	0.06								
Fluorene	23	0.013	0.565	J	0.02	0.045	0.849	0.03	0.140	2.414	0.10	0.140	2.456	0.11	0.019	0.826	J	0.03	0.027	0.509	0.02	0.048	0.828	0.06	0.067	1.175	0.04						
Phenanthrene	100	0.048	2.087	0.02	0.089	1.679	0.02	0.470	8.103	0.08	0.460	6.779	0.08	0.059	2.565	0.02	0.160	3.019	0.02	0.280	4.828	0.09	0.180	3.158	0.03								
Anthracene	220	0.015	0.652	0.00	0.035	0.660	0.00	0.110	1.897	0.01	0.150	2.632	0.01	0.026	1.130	0.00	0.055	1.038	0.00	0.069	1.190	0.01	0.083	1.456	0.01								
2-Methylnaphthalene	38	0.021	0.913	0.02	1.600	30.189	0.71	0.120	2.269	0.05	0.130	2.281	0.06	0.020	0.870	0.02	0.033	0.623	0.01	0.033	0.569	0.03	0.069	1.211	0.03								
Total LPAH	370	0.140	6.1	0.01	2.116	39.9	0.10	1.187	20.5	0.06	1.293	22.7	0.06	0.153	6.7	0.01	0.341	6.4	0.01	0.493	8.5	0.04	0.585	10.3	0.02								
HPAH	(ppm TOC)	(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)																	
Fluoranthene	160	0.066	2.870	0.02	0.130	2.453	0.01	0.490	8.448	0.05	0.670	11.754	0.07	0.120	5.217	0.03	0.310	5.849	0.03	0.320	5.517	0.06	0.500	8.772	0.04								
Pyrene	1000	0.071	3.087	0.00	0.120	2.264	0.00	0.440	7.586	0.01	0.550	9.649	0.01	0.420	7.925	0.01	0.400	6.897	0.01	0.400	6.897	0.01	0.560	9.825	0.01								
Benzo(a)anthracene	110	0.025	1.087	E	0.01	0.056	1.057	0.01	0.150	2.586	0.02	0.260	4.561	0.04	0.065	2.826	0.02	0.160	3.019	0.02	0.160	2.759	0.05	0.170	2.982	0.02							
Chrysene	110	0.032	1.391	E	0.01	0.056	1.057	0.01	0.190	3.276	0.03	0.360	6.316	0.06	0.110	4.783	0.03	0.270	5.094	0.03	0.200	3.448	0.06	0.250	4.386	0.03							
Benzofluoranthenes (b+k)	230	0.039	1.696	E	0.01	0.049	0.925	U	0.00	0.390	6.842	0.03	0.390	6.842	0.03	0.125	5.435	0.02	0.350	6.604	0.02	0.220	3.793	0.03	0.249	4.368	D						
Benzo(a)pyrene	99	0.021	0.913	E	0.01	0.030	0.566	E	0.01	0.100	1.724	0.02	0.210	3.684	0.04	0.049	2.130	0.02	0.150	2.830	0.02	0.110	1.897	0.03	0.110	1.930	0.02						
Indeno(1,2,3-cd)pyrene	34	0.016	0.696	E	0.02	0.015	0.283	E	0.01	0.058	1.000	E	0.03	0.110	1.930	0.06	0.030	1.304	0.03	0.095	1.792	0.04	0.059	1.017	0.05	0.048	0.842	0.02					
Dibenzo(a,h)anthracene	12	<0.060	<0.671	U	0.00	0.051	0.962	U	0.07	0.075	1.293	U	0.00	0.072	1.263	U	<0.020	<0.671	U	0.00	0.021	0.396	0.02	0.015	0.259	J	0.04	0.013	0.228	J	0.02		
Benzo(g,h,i)perylene	31	0.021	0.913	E	0.03	0.020	0.377	E	0.01	0.071	1.224	E	0.04	0.130	2.281	0.07	0.033	1.435	0.04	0.097	1.830	0.04	0.060	1.034	0.06	0.048	0.842	0.02					
Total HPAH	960	0.291	12.652	0.01	0.527	9.943	0.01	1.770	30.517	0.03	2.752	48.281	0.02	0.712	30.957	0.02	1.873	35.340	0.03	1.544	26.621	0.05	1.948	34.175	0.02								
Chlorinated Hydrocarbons	(ppm TOC)	(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)																	
1,4-Dichlorobenzene	3.1	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00
1,2-Dichlorobenzene	2.3	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00
1,2,4-Trichlorobenzene	0.81	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00
Hexachlorobenzene	0.38	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00
Phthalates	(ppm TOC)	(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)		(mg/kg) (ppm TOC)																	
Dimethyl phthalate	53	<0.020	<0.671	U	0.00	0.012	0.226	J	0.00	<0.020	<0.621	U	0.00	0.079	1.386	0.03	<0.020	<0.671	U	0.00	0.012	0.226	J	0.00	<0.020	<0.621	U	0.00	0.079	1.386	0.02		
Diethyl phthalate	61	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00
Di-n-butyl phthalate	220	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00
Butyl benzyl phthalate	4.9	<0.020	<0.671	U	0.00	0.020	0.377	J	0.07	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00	<0.020	<0.671	U	0.00	0.020	0.377	J	0.06	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00
Bis(2-ethylhexyl)phthalate	47	0.038	1.652	U	0.04	0.360	6.792	0.13	0.460	7.931	0.17	0.560	9.825	0.21	0.460	20.000	0.33	0.420	7.925	0.13	0.690	11.897	0.46	1.200	21.053	0.36	1.200	21.053	0.36				
Di-n-octyl phthalate	58	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	<0.020	<0.621	U	0.00	<0.020	<0.284	U	0.00	<0.020	<0.671	U	0.00	<0.020	<0.282	U	0.00	0.210	3.621	0.11	0.040	0.702	0.01		
Phenols - mg/kg		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)		(mg/kg)																	
Phenol	0.42	0.034	0.07	0.160	0.34	0.210	B	0.50	0.190	B	0.45	<0.020	U	0.00	<0.020	U	0.00	<0.020	U	0.00	<0.020	U	0.00	<0.020	U	0.00	<0.020	U	0.00	<0.020	U	0.00	
2-Methylphenol	0.063	0.012	0.17	0.130																													

**Appendix G. Table G-3 Enrichment Ratio Summaries
for Subsurface Sediments 0.4-4 ft sample interval
Natural Recovery Logs - only sampled for Mercury**

Location ID	Sample ID	Depth Interval Unit		Mercury sqs = 0.41 MG/KG				
		START FT	END FT	Mercury (Result with Qualifiers)	Mercury (Result only)	ER Value	% of sample	Resulting ER
HC-NR-100	HC-NR-100-S01	0.00	0.08	1.3 J	1.3	3.17		
HC-NR-100	HC-NR-100-S02	0.08	0.16	1 J	1	2.44		
HC-NR-100	HC-NR-100-S03	0.16	0.25	1.1 J	1.1	2.68		
HC-NR-100	HC-NR-100-S04	0.25	0.33	1.1 J	1.1	2.68	0.01	0.02
HC-NR-100	HC-NR-100-S05	0.33	0.41	1.4 J	1.4	3.41	0.02	0.08
HC-NR-100	HC-NR-100-S06	0.41	0.49	1.3 J	1.3	3.17	0.02	0.07
HC-NR-100	HC-NR-100-S07	0.49	0.57	1.3 J	1.3	3.17	0.02	0.07
HC-NR-100	HC-NR-100-S08	0.57	0.66	1.3 J	1.3	3.17	0.02	0.07
HC-NR-100	HC-NR-100-S09	0.66	0.74	1.4 J	1.4	3.41	0.02	0.08
HC-NR-100	HC-NR-100-S10	0.74	0.82	1.3 J	1.3	3.17	0.07	0.21
HC-NR-100	HC-NR-100-S13	0.98	1.07	2.2 J	2.2	5.37	0.07	0.37
HC-NR-100	HC-NR-100-S16/17	1.23	1.39	7.2 J	7.2	17.56	0.07	1.22
HC-NR-100	HC-NR-100-S19	1.48	1.56	1.7 J	1.7	4.15	0.07	0.28
HC-NR-100	HC-NR-100-S22	1.72	1.80	1.4 J	1.4	3.41	0.07	0.24
HC-NR-100	HC-NR-100-S25	1.97	2.05	0.53 J	0.53	1.29	0.18	0.23
HC-NR-100	HC-NR-100-S33	2.62	2.71	0.27 J	0.27	0.66	0.16	0.11
HC-NR-100	HC-NR-100-S40	3.20	3.28	0.43 J	0.43	1.05	0.11	0.12
HC-NR-100	HC-NR-100-S45	3.61	3.69	0.21 J	0.21	0.51	0.11	0.06
Resulting ER Value:								3.22
Resulting Mercury Conc.:								1.32
HC-NR-101	HC-NR-101-S01	0.00	0.09	1.7	1.7	4.15		
HC-NR-101	HC-NR-101-S02	0.09	0.17	1.3	1.3	3.17		
HC-NR-101	HC-NR-101-S03	0.17	0.26	1.4	1.4	3.41		
HC-NR-101	HC-NR-101-S04	0.26	0.34	1.6	1.6	3.90	0.01	0.04
HC-NR-101	HC-NR-101-S05	0.34	0.43	1.7	1.7	4.15	0.02	0.10
HC-NR-101	HC-NR-101-S06	0.43	0.51	1.7	1.7	4.15	0.02	0.10
HC-NR-101	HC-NR-101-S07	0.51	0.60	1.7	1.7	4.15	0.02	0.10
HC-NR-101	HC-NR-101-S08	0.60	0.68	1.6	1.6	3.90	0.02	0.09
HC-NR-101	HC-NR-101-S09	0.68	0.77	2.1	2.1	5.12	0.02	0.12
HC-NR-101	HC-NR-101-S10	0.77	0.85	2	2	4.88	0.07	0.34
HC-NR-101	HC-NR-101-S13	1.02	1.11	1.8	1.8	4.39	0.07	0.31
HC-NR-101	HC-NR-101-S16/17	1.28	1.44	3.1	3.1	7.56	0.05	0.34
HC-NR-101	HC-NR-101-S19	1.54	1.62	5.1	5.1	12.44	0.07	0.88
HC-NR-101	HC-NR-101-S22	1.79	1.88	3.1	3.1	7.56	0.07	0.54
HC-NR-101	HC-NR-101-S25	2.05	2.13	4.6	4.6	11.22	0.12	1.32
HC-NR-101	HC-NR-101-S30	2.47	2.56	1.7	1.7	4.15	0.07	0.30
HC-NR-101	HC-NR-101-S33	2.73	2.81	1.7	1.7	4.15	0.12	0.50
HC-NR-101	HC-NR-101-S38	3.16	3.24	0.59	0.59	1.44	0.05	0.07
HC-NR-101	HC-NR-101-S40	3.33	3.41	0.3	0.3	0.73	0.12	0.09
HC-NR-101	HC-NR-101-S45	3.75	3.84	0.22	0.22	0.54	0.07	0.04
Resulting ER Value:								5.28
Resulting Mercury Conc.:								2.17
HC-NR-102	HC-NR-102-S01	0.00	0.08	0.34	0.34	0.83		
HC-NR-102	HC-NR-102-S02	0.08	0.16	0.42	0.42	1.02		
HC-NR-102	HC-NR-102-S03	0.16	0.24	0.37	0.37	0.90		
HC-NR-102	HC-NR-102-S04	0.24	0.31	0.68	0.68	1.66	0.00	0.01
HC-NR-102	HC-NR-102-S05	0.31	0.39	0.49	0.49	1.20	0.02	0.03
HC-NR-102	HC-NR-102-S06	0.39	0.47	0.5	0.5	1.22	0.02	0.03
HC-NR-102	HC-NR-102-S07	0.47	0.55	0.54	0.54	1.32	0.02	0.03
HC-NR-102	HC-NR-102-S08	0.55	0.63	0.56	0.56	1.37	0.02	0.03
HC-NR-102	HC-NR-102-S09	0.63	0.71	0.69	0.69	1.68	0.02	0.04
HC-NR-102	HC-NR-102-S10	0.71	0.79	0.56	0.56	1.37	0.06	0.09
HC-NR-102	HC-NR-102-S13	0.94	1.02	1	1	2.44	0.07	0.16
HC-NR-102	HC-NR-102-S16/17	1.18	1.31	0.83	0.83	2.02	0.07	0.13
HC-NR-102	HC-NR-102-S19	1.42	1.50	1.3	1.3	3.17	0.06	0.21
HC-NR-102	HC-NR-102-S22	1.65	1.73	4.5	4.5	10.98	0.07	0.72
HC-NR-102	HC-NR-102-S25	1.89	1.97	0.79	0.79	1.93	0.18	0.34
HC-NR-102	HC-NR-102-S33	2.52	2.60	< 0.19 U	0.19	0.46	0.15	0.07
HC-NR-102	HC-NR-102-S40	3.07	3.15	0.19	0.19	0.46	0.11	0.05
HC-NR-102	HC-NR-102-S45	3.46	3.54	0.28	0.28	0.68	0.15	0.10
Resulting ER Value:								2.03
Resulting Mercury Conc.:								0.83

Notes:

U = Compound not detected at the indicated reporting limit.

— Not tested in this sample.

*: Multiple PAH compounds exceeded the SQS in this sample, but all PAH compounds were below the SQS in a matching duplicate sample, indicating that the

** : Value is an outlier. Not included in average calculation.

Pre 1996 Data excluded from analysis

Calculating the ER Values:

For compounds with a measured concentration below the SQS, the ER for that compound was assigned a value of zero.

Enrichment calculated only for compounds detected above SQS in at least 2 or more samples, or in samples at ER values of greater than 2X. ER values not Dioxins not included in enrichment ratio calculations, because SQS values are not available for these compounds. Dioxins were elevated within the ASB sludges.

Depth interval determination:

1. For samples with only one sample point that was less than 12 inches - sample point was not used
2. For data with 2 partial intervals, the resulting average value was found by dividing the resulting concentration by the proportional volume
3. For data with partial intervals and data gaps between, data was extended down
4. Any data below 4 feet or above 0.4 feet was not used in the cumulative ER value
5. For data below the detection limit, one half of the detection limit was used and the above assumptions were applied.
6. Samples shallower than 4 feet were extend to 4 feet