Data Validation Qualifiers

U	The compound was analyzed for, but was not detected ("non-detect") at or above the MDL.
J	The analyte was positively identified; the associated value is the approximate concentration.
UJ	The analyte was not detected above the quantitation limit. However, the quantitation limit is considered approximate.
K	Identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum concentration.
B	The analyte was found in the associated method blank at a level that is significant relative to the sample result.
R	The sample results are rejected due to an inability to meet quality control criteria.
Y	The analyte is not detected, but the reporting limit has been raised due to chromatographic interference.
P	The analyte was detected on both columns, but values differ by >40% with no chromatographic interferenc.
NJ	The analysis indicates the presence of a "tentatively identified" analyte. Reported value is approximate.
	Value exceeds SQS
	Value exceeds CSL
	Undetected value exceeds TOC normalized SQS and CSL critieria, but meets dry weight equivalents

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A1-01			A1-02			A1-03			A1-07			A1-10			A1-15		
Collection Date	SQS	CSL	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	4.41			3.73			7.06			3.55			5.23			1.51		
TVS (% DW)	—	—	16.45			12.8			24.53			21.85			14.17			3.79		
Total Solids (% DW)	—	—	35.3			29.8			28.7			28.5			41.2			69.5		
Preserved Total Solids (% DW)	—	—	32.2			29.9			29.8			29.1			35.6			66.5		
Ammonia (mg-N/kg DW)	—	—	11.6			83.5			23.9			26.3			9.03			4.35		
Total Sulfides (mg/kg DW)	—	—	3780		J	2460		J	2540		J	3030		J	1560		J	13.3		J
Grain Size																				
Phi Scale <-1	—	—	9.7			1.8			7.6			10.8			4.7			13.4		
Phi Scale -1 to 0	—	—	3.5			2.1			3.9			3.8			3.1			6.7		
Phi Scale 0 to 1	—	—	3.7			1.2			3.9			3.9			6.2			12		
Phi Scale 1 to 2	—	—	5.7			1			4.9			4.5			12.1			14.9		
Phi Scale 2 to 3	—	—	11			1.4			5.4			5.1			9.1			5.4		
Phi Scale 3 to 4	—	—	13.2			3			7.4			7.7			10.3			12.7		
Phi Scale 4 to 5	—	—	7.9			8			6.8			6.2			8			12.9		
Phi Scale 5 to 6	—	—	15.2			23.5			14.2			26.1			10.8			7.2		
Phi Scale 6 to 7	—	—	12			23.8			16			11.9			10.8			4.2		
Phi Scale 7 to 8	—	—	4.4			8.3			9.2			4.6			7			2.7		
Phi Scale 8 to 9	—	—	2.8			5.3			5.4			3			4.4			1.9		
Phi Scale 9 to 10	—	—	2.5			5.4			5.1			3.5			3.9			1.8		
Phi Scale >10	—	—	8.2			15.1			10.3			9			9.5			4.1		
Fines (Silt/Clay)	—	—	53			89.5			66.9			64.3			54.5			34.9		
Metals in mg/kg DW																				
Arsenic	57	93	20			2	U	U	2	U	U	2	U	U	20			0.7	U	U
Cadmium	5.1	6.7	2.8			3.7			3.1			2.6			2.8			0.4		
Chromium	—	—	51			68			58			54			47			33.6		
Copper	390	390	72.9			83.9			79.3			70.1			72.2			28.8		
Lead	450	530	46			31			37			36			56			10		
Mercury	0.41	0.59	0.2			0.2			0.2			0.7			0.2			0.1		
Silver	6.1	6.1	0.3	U	U	0.4	U	U	0.32	U	U	0.4	U	U	0.27	U	U	0.16	U	U
Zinc	410	960	301		J	164		J	230		J	156		J	191		J	53		J
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—							5.7	U	U							5.7	U	U
Tributyl Tin Ion	—	—							3.8	U	U							3.8	U	U
Butyl Tin Ion	—	—							3.9	U	U							4	U	U
LPAH in mg/kg TOC																				
Naphthalene	99	170	3.40			1.31			1.37			1.10			7.65			5.30		
Acenaphthylene	66	66	1.07	J	J	0.86			0.33			0.73			1.05			1.39		
Acenaphthene	16	57	1.52			0.78			0.45			0.45	J	J	3.82			1.46		
Fluorene	23	79	2.15			1.47			0.61			0.76			4.02			1.85		
Phenanthrene	100	480	9.98			5.90			2.12			3.10			9.56			7.28		
Anthracene	220	1200	3.85			5.90			1.23			1.97			4.78			2.78		
1-Methylnaphthalene	—	—	0.48	U	U	0.29	J	J	0.23	J	J	0.20	U	U	1.43			0.66	J	J
2-Methylnaphthalene	38	64	1.04	J	J	0.64			0.38			0.42	J	J	2.29			1.26	J	J
Total LPAH	960	5300	21.97	J		16.22			6.12			8.11	J	J	30.88			20.07		
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	17.23			14.75			4.11			6.48			21.03			11.26		
Pyrene	1000	1400	18.37			18.50			4.67			7.89			17.02			11.92		
Benzo(a)anthracene	110	270	8.16			12.06			1.84			3.66			5.93			3.51		
Chrysene	110	460	13.61			18.77			2.55			6.48			8.60			4.77		
Benzo(b)fluoranthene	—	—	11.11			16.62			1.84			5.07			4.78			4.70		
Benzo(k)fluoranthene	—	—	7.26			11.26			2.55			5.07			6.12			3.05		
Benzofluoranthenes	230	450	18.37			27.88			4.39			10.14			10.90			7.75		
Benzo(a)pyrene	99	210	7.26			11.26			1.56			3.66			3.63			3.51		
Indeno(1,2,3-cd)pyrene	34	88	2.95			3.75			0.57			1.18			1.01			1.52		
Dibenz(a,h)anthracene	12	33	1.11	J	J	1.58			0.24	J	J	0.48	J	J	0.44			0.56	U	U
Benzo(g,h,i)perylene	31	78	3.17			3.49			0.52			1.13			0.88			1.79		
Retene	—	—																		
Total HPAH	960	5300	90.23	J	J	112.04			20.45	J	J	41.10	J	J	69.45			46.03		
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.50	U	U	0.20	U	U	0.10	U	U	0.21	U	U	0.14	U	U	0.48	U	U
1,4-Dichlorobenzene	3.1	9	0.50	U	U	0.20	U	U	0.10	U	U	0.21	U	U	0.14	U	U	0.48	U	U
1,2-Dichlorobenzene	2.3	2.3	0.52	U	U	0.21	U	U	0.11	U	U	0.22	U	U	0.15	U	U	0.51	U	U
1,2,4-Trichlorobenzene	0.81	1.8	0.61	U	U	0.24	U	U	0.13	U	U	0.25	U	U	0.17	U	U	0.59	U	U
Hexachlorobenzene	0.38	2.3	0.04	U	U	0.21	U	U	0.11	U	U	0.22	U	U	0.15	U	U	0.52	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.52	U	U	0.21	U	U	0.11	U	U	0.22	U	U	0.15	U	U	0.50	U	U
Diethylphthalate	61	110	1.11	U	U	0.43	U	U	0.23	U	U	0.45	U	U	0.31	U	U	1.06	U	U
Di-n-Butylphthalate	220	1700	0.84	U	U	0.32	U	U	0.17	U	U	0.34	U	U	0.23	U	U	0.79	U	U
Butylbenzylphthalate	4.9	64	0.75	U	U	0.29	U	U	0.16	U	U	0.31	U	U	0.21	U	U	0.73	U	U
bis(2-Ethylhexyl)phthalate	47	78	2.49			2.20			0.69			1.89			1.45			0.73	J	J
Di-n-Octylphthalate	58	4500	0.57	U	U	0.22	U	U	0.12	U	U	0.23	U	U	0.16	U	U	0.54	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	41	U	U	14	U	U	16	J	J	17	J	J	43			40		
2-Methylphenol	63	63	42	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	360			60			310			41			1200			68		
2,4-Dimethylphenol	29	29	3.6	U	U	15	U	U	15	U	U	15	U	U	16	J	J	15	U	U
Pentachlorophenol	360	690	140	U	U	47	U	U	47	U	U	47	U	U	47	U	U	47	U	U

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A1-01			A1-02			A1-03			A1-07			A1-10			A1-15		
Collection Date	SQS	CSL	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—				20	U	U												
4,5-Dichloroguaiacol	—	—				20	U	U												
4,5,6-Trichloroguaiacol	—	—				20	U	U												
3,4,5-Trichloroguaiacol	—	—				20	U	U												
Tetrachloroguaiacol	—	—				20	U	U												
Pimaric Acid	—	—				200	U	U												
Isopimaric Acid	—	—				200	U	U												
Dehydroabietic Acid	—	—				320														
Abietic Acid	—	—				170	J	J												
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	43	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
Benzoic Acid (ug/kg DW)	650	650	340	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58	1.50			1.13			0.59			0.54	J	J	3.25			1.59		
Hexachlorobutadiene	3.9	6.2	0.54	U	U	0.21	U	U	0.11	U	U	0.23	U	U	0.15	U	U	0.53	U	U
N-Nitrosodiphenylamine	28	130	0.59	U	U	0.23	U	U	0.12	U	U	0.24	U	U	0.16	U	U	0.56	U	U
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	0.15	U	U	0.18	U	U	0.09	U	U	0.19	U	U	0.13	U	U	0.44	U	U
Aroclor-1232	—	—	0.15	Y	U	0.18	U	U	0.09	U	U	0.19	U	U	0.13	U	U	0.44	U	U
Aroclor-1242	—	—	0.15	U	U	0.18	U	U	0.09	U	U	0.19	U	U	0.13	U	U	0.44	U	U
Aroclor-1016	—	—	0.15	U	U	0.18	U	U	0.09	U	U	0.19	U	U	0.13	U	U	0.44	U	U
Aroclor-1248	—	—	0.15	U	U	0.18	U	U	0.09	U	U	0.19	U	U	0.13	U	U	0.44	U	U
Aroclor-1254	—	—	0.66			0.18	U	U	0.09	U	U	0.19	U	U	2.87			0.44	U	U
Aroclor-1260	—	—	0.15	U	U	0.18	U	U	0.09	U	U	0.19	U	U	0.54			0.44	U	U
Aroclor-1262	—	—	0.15	U	U	0.18	U	U	0.09	U	U	0.19	U	U	0.13	U	U	0.44	U	U
Aroclor-1268	—	—	0.15	U	U	0.18	U	U	0.09	U	U	0.19	U	U	0.13	U	U	0.44	U	U
Total PCBs	12	65	0.66			0.18	U	U	0.09	U	U	0.19	U	U	3.40			0.44	U	U
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—																		
4,4'-DDE	—	—																		
4,4'-DDD	—	—																		
gamma-BHC (Lindane)	—	—																		
Heptachlor	—	—																		
Aldrin	—	—																		
Dieldrin	—	—																		
gamma Chlordane	—	—																		
alpha Chlordane	—	—																		
oxy Chlordane	—	—																		
cis-Nonachlor	—	—																		
trans-Nonachlor	—	—																		
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—							2.23						4.02					
1,2,3,7,8-PECDD	—	—							8.65						14.3					
1,2,3,4,7,8-HXCDD	—	—							14.4						14.9					
1,2,3,6,7,8-HXCDD	—	—							49.1						33.6					
1,2,3,7,8,9-HXCDD	—	—							34.9						32.2					
1,2,3,4,6,7,8-HPCDD	—	—							755						513					
OCDD	—	—							5910						4250					
2,3,7,8-TCDF	—	—							27.1						36					
1,2,3,7,8-PECDF	—	—							6.28						13.5					
2,3,4,7,8-PECDF	—	—							8.75						17.2					
1,2,3,4,7,8-HXCDF	—	—							17.2						15.4					
1,2,3,6,7,8-HXCDF	—	—							7.32						10.7					
1,2,3,7,8,9-HXCDF	—	—							1.04	J	J				1.53	J	J			
2,3,4,6,7,8-HXCDF	—	—							7.27						11					
1,2,3,4,6,7,8-HPCDF	—	—							137						99.4					
1,2,3,4,7,8,9-HPCDF	—	—							8.68						7.11					
OCDF	—	—							264						147					
TEQ 0 DL	—	—							40.4						46.9					
TEQ 1/2 DL	—	—							40.4						46.9					

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A1-15-D			A1-15-T			A1-16			A1-18			A1-23			A1-24		
Collection Date	SQS	CSL	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	1.26			1.1			1.65			1.82			1.42			1.28		
TVS (% DW)	—	—	3.54			3.6			5.9			5.23			6.43			13.09		
Total Solids (% DW)	—	—	72.7			69.5			61.2			64.8			57.4			48.2		
Preserved Total Solids (% DW)	—	—	65.8			70.1			50.9			60.2			53.2			39.4		
Ammonia (mg-N/kg DW)	—	—	3.26			2.99			3.94			3.32			3.52			5.37		
Total Sulfides (mg/kg DW)	—	—	9.82		J	2.4		J	169		J	11.7		J	73		J	377		J
Grain Size																				
Phi Scale <-1	—	—	12.1			19.6			4.1			3.1			2.7			3.4		
Phi Scale -1 to 0	—	—	7.7			7.4			3.3			2.6			2.7			2.1		
Phi Scale 0 to 1	—	—	14.3			14.2			11.9			8.5			5.5			3.8		
Phi Scale 1 to 2	—	—	16.2			18.4			18.1			20.9			7.4			6.4		
Phi Scale 2 to 3	—	—	6.1			5.5			12.3			10.4			8			13.3		
Phi Scale 3 to 4	—	—	12.3			10.3			18.7			21.7			22.6			23.6		
Phi Scale 4 to 5	—	—	10			10.2			9.9			11.6			19.8			15.4		
Phi Scale 5 to 6	—	—	5.9			3.8			5			5.9			8.3			7.8		
Phi Scale 6 to 7	—	—	3.5			2.4			4.1			3.9			5.6			5.4		
Phi Scale 7 to 8	—	—	2.4			1.6			3			3.3			4.6			5.9		
Phi Scale 8 to 9	—	—	1.9			1.3			2.4			1.9			1.3			3.3		
Phi Scale 9 to 10	—	—	1.4			1			2.3			1.9			4.5			3.6		
Phi Scale >10	—	—	6.3			4.2			4.9			4.5			6.9			6		
Fines (Silt/Clay)	—	—	31.3			24.6			31.6			32.9			51.1			47.4		
Metals in mg/kg DW																				
Arsenic	57	93							10			0.8	U	U	0.9	U	U	50		
Cadmium	5.1	6.7							1			0.6			0.8			1.5		
Chromium	—	—							38.9			31			43			46		
Copper	390	390							33.6			28.9			38.2			137		
Lead	450	530							16			11			15			47		
Mercury	0.41	0.59							0.08			0.09			0.08			0.1		
Silver	6.1	6.1							0.19	U	U	0.17	U	U	0.19	U	U	0.24	U	U
Zinc	410	960							78		J	56		J	76		J	415		J
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—																		
Tributyl Tin Ion	—	—																		
Butyl Tin Ion	—	—																		
LPAH in mg/kg TOC																				
Naphthalene	99	170							10.30			4.84			5.92			10.94		
Acenaphthylene	66	66							2.55			0.93	J	J	0.99	J	J	2.19		
Acenaphthene	16	57							5.58			0.99	J	J	1.62			9.38		
Fluorene	23	79							7.88			1.32			1.90			7.34		
Phenanthrene	100	480							32.73			4.67			6.62			25.00		
Anthracene	220	1200							14.55			1.70			2.46			8.59		
1-Methylnaphthalene	—	—							3.82			0.60	J	J	0.92	J	J	3.13		
2-Methylnaphthalene	38	64							3.82			0.99	J	J	1.27	J	J	4.84		
Total LPAH	960	5300							81.21			14.45	J	J	19.51	J	J	71.41		
HPAH in mg/kg TOC																				
Fluoranthene	160	1200							40.00			7.14			9.15			35.16		
Pyrene	1000	1400							46.67			6.59			8.45			32.81		
Benzo(a)anthracene	110	270							15.76			2.14			4.86			16.41		
Chrysene	110	460							26.67			2.86			7.75			24.22		
Benzo(b)fluoranthene	—	—							16.36			1.98			4.93			15.63		
Benzo(k)fluoranthene	—	—							14.55			1.98			4.44			15.63		
Benzofluoranthenes	230	450							30.91			3.96			9.37			31.25		
Benzo(a)pyrene	99	210							13.94			1.48			4.15			14.06		
Indeno(1,2,3-cd)pyrene	34	88							6.67			1.15			2.32			7.19		
Dibenz(a,h)anthracene	12	33							3.39			0.66	J	J	0.85	J	J	3.44		
Benzo(g,h,i)perylene	31	78							7.27			1.48			2.68			7.42		
Retene	—	—																		
Total HPAH	960	5300							191.27			27.47	J	J	49.58	J	J	171.95		
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—							0.45	U	U	0.40	U	U	0.51	U	U	0.56	U	U
1,4-Dichlorobenzene	3.1	9							0.44	U	U	0.39	U	U	0.51	U	U	0.56	U	U
1,2-Dichlorobenzene	2.3	2.3							0.47	U	U	0.42	U	U	0.54	U	U	0.60	U	U
1,2,4-Trichlorobenzene	0.81	1.8							0.55	U	U	0.48	U	U	0.63	U	U	0.69	U	U
Hexachlorobenzene	0.38	2.3							0.48	U	U	0.42	U	U	0.55	U	U	0.61	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53							0.47	U	U	0.41	U	U	0.54	U	U	0.59	U	U
Diethylphthalate	61	110							0.97	U	U	0.88	U	U	1.13	U	U	1.25	U	U
Di-n-Butylphthalate	220	1700							0.73	U	U	0.66	U	U	0.85	U	U	0.94	U	U
Butylbenzylphthalate	4.9	64							0.67	U	U	0.60	U	U	0.77	U	U	0.86	U	U
bis(2-Ethylhexyl)phthalate	47	78							2.67			0.77	J	J	2.18			15.63		J
Di-n-Octylphthalate	58	4500							0.50	U	U	0.44	U	U	0.57	U	U	0.63	U	U
Phenols in ug/kg DW																				
Phenol	420	1200							14	U	U	57			19	J	J	48		
2-Methylphenol	63	63							14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670							69			50			45			87		
2,4-Dimethylphenol	29	29							15	U	U	14	U	U	14	U	U	14	U	U
Pentachlorophenol	360	690							47	U	U	46	U	U	46	U	U	46	U	U

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A1-15-D			A1-15-T			A1-16			A1-18			A1-23			A1-24		
Collection Date	SQS	CSL	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—																20	U	U
4,5-Dichloroguaiacol	—	—																20	U	U
4,5,6-Trichloroguaiacol	—	—																20	U	U
3,4,5-Trichloroguaiacol	—	—																20	U	U
Tetrachloroguaiacol	—	—																20	U	U
Pimaric Acid	—	—																490	U	U
Isopimaric Acid	—	—																490	U	U
Dehydroabietic Acid	—	—																2600		
Abietic Acid	—	—																1600		
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73							14	U	U	14	U	UJ	14	U	UJ	14	U	UJ
Benzoic Acid (ug/kg DW)	650	650							110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58							5.76			1.10			1.83			7.50		
Hexachlorobutadiene	3.9	6.2							0.49	U	U	0.43	U	U	0.56	U	U	0.62	U	U
N-Nitrosodiphenylamine	28	130							0.52	U	U	0.46	U	U	0.60	U	U	0.66	U	U
PCBs in mg/kg TOC																				
Aroclor-1221	—	—							0.40	U	U	0.36	U	U	0.46	U	U	0.51	U	U
Aroclor-1232	—	—							0.40	U	U	0.36	U	U	0.46	U	U	0.51	U	U
Aroclor-1242	—	—							0.40	U	U	0.36	U	U	0.46	U	U	0.51	U	U
Aroclor-1016	—	—							0.40	U	U	0.36	U	U	0.46	U	U	0.51	U	U
Aroclor-1248	—	—							0.40	U	U	0.36	U	U	0.46	U	U	0.51	U	U
Aroclor-1254	—	—							0.40	U	U	1.48			0.46	U	U	2.81		
Aroclor-1260	—	—							0.40	U	U	0.36	U	U	0.46	U	U	3.13	P	NJ
Aroclor-1262	—	—							0.40	U	U	0.36	U	U	0.46	U	U	0.51	U	U
Aroclor-1268	—	—							0.40	U	U	0.36	U	U	0.46	U	U	0.51	U	U
Total PCBs	12	65							0.40	U	U	1.48			0.46	U	U	5.94	P	NJ
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—																		
4,4'-DDE	—	—																		
4,4'-DDD	—	—																		
gamma-BHC (Lindane)	—	—																		
Heptachlor	—	—																		
Aldrin	—	—																		
Dieldrin	—	—																		
gamma Chlordane	—	—																		
alpha Chlordane	—	—																		
oxy Chlordane	—	—																		
cis-Nonachlor	—	—																		
trans-Nonachlor	—	—																		
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—										0.346	J	J				1.4		
1,2,3,7,8-PECDD	—	—										0.898	J	J				3.83	J	J
1,2,3,4,7,8-HXCDD	—	—										1.09	J	J				4.1	J	J
1,2,3,6,7,8-HXCDD	—	—										4.41						12.5		
1,2,3,7,8,9-HXCDD	—	—										3.07	J	J				10		
1,2,3,4,6,7,8-HPCDD	—	—										56.2						239		
OCDD	—	—										422						1960		
2,3,7,8-TCDF	—	—										9.04						27.1		
1,2,3,7,8-PECDF	—	—										0.607	J	J				3.52	J	J
2,3,4,7,8-PECDF	—	—										1.11	J	J				4.83		
1,2,3,4,7,8-HXCDF	—	—										1.19	J	J				5.27		
1,2,3,6,7,8-HXCDF	—	—										0.642	J	J				2.97	J	J
1,2,3,7,8,9-HXCDF	—	—										0.081	J	J				0.635	J	J
2,3,4,6,7,8-HXCDF	—	—										0.693	J	J				2.71	J	J
1,2,3,4,6,7,8-HPCDF	—	—										12.7						25.8		
1,2,3,4,7,8,9-HPCDF	—	—										0.728	J	J				3.41	J	J
OCDF	—	—										25.3						54.9		
TEQ 0 DL	—	—										4.45						16.6		
TEQ 1/2 DL	—	—										4.45						16.6		

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A1-31B			A1-31			A1-38			A1-44			A1-46B			A1-46		
Collection Date	SQS	CSL	08/12/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/15/2008	LQ	VQ	08/04/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	0.422			0.274			0.271			0.955			0.253			0.436		
TVS (% DW)	—	—	1.14			1.02			1.06			3.09			1.06			1.13		
Total Solids (% DW)	—	—	76.6			78.9			78.2			70.2			75.8			74.9		
Preserved Total Solids (% DW)	—	—	77.8			71.3			81.3			63.3			81.2			75.7		
Ammonia (mg-N/kg DW)	—	—	2.46			1.37		J	1.57		J	3.29		J	0.9		J	2.93		J
Total Sulfides (mg/kg DW)	—	—	0.01	U	U	1.84			0.01	U	U	10.9			618			27.2		
Grain Size																				
Phi Scale <-1	—	—	2.3						1.6				U	U	0.6					
Phi Scale -1 to 0	—	—	8						5.7			0.4			7					
Phi Scale 0 to 1	—	—	17.8						25			1			25.6					
Phi Scale 1 to 2	—	—	44.1						51.6			12.2			49.3					
Phi Scale 2 to 3	—	—	22.2						13.1			39			14.4					
Phi Scale 3 to 4	—	—	3						1			25.9			0.8					
Phi Scale 4 to 5	—	—										9.8								
Phi Scale 5 to 6	—	—										2.8								
Phi Scale 6 to 7	—	—										1.9								
Phi Scale 7 to 8	—	—										1.3								
Phi Scale 8 to 9	—	—										1.1								
Phi Scale 9 to 10	—	—										1.5								
Phi Scale >10	—	—										2.9								
Fines (Silt/Clay)	—	—	2.6						2			21.5			2.2					
Metals in mg/kg DW																				
Arsenic	57	93	0.7	U	U				0.6	U	U	0.8	U	U	0.6	U	U			
Cadmium	5.1	6.7	0.03	U	U				0.02	U	U	0.03	U	U	0.02	U	U			
Chromium	—	—	28.1						30.7		J	36.8		J	33.8					
Copper	390	390	12						11			16.5			9.6					
Lead	450	530	4						4			8			4					
Mercury	0.41	0.59	0.005	U	U				0.005	U	UJ	0.006	U	UJ	0.006	U	U			
Silver	6.1	6.1	0.14	U	U				0.13	U	U	0.16	U	U	0.13	U	U			
Zinc	410	960	39						33			43			46					
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—																		
Tributyl Tin Ion	—	—																		
Butyl Tin Ion	—	—																		
LPAH in mg/kg TOC																				
Naphthalene	99	170	1.99	U	U				3.14	U	U	0.90	U	U	3.36	U	U			
Acenaphthylene	66	66	1.99	U	U				3.14	U	U	0.89	U	U	3.36	U	U			
Acenaphthene	16	57	1.90	U	U				2.99	U	U	0.85	U	U	3.16	U	U			
Fluorene	23	79	2.06	U	U				3.25	U	U	0.92	U	U	3.48	U	U			
Phenanthrene	100	480	1.94	U	U				3.03	U	U	1.47	J	J	3.24	U	U			
Anthracene	220	1200	1.78	U	U				2.80	U	U	0.80	U	U	3.00	U	U			
1-Methylnaphthalene	—	—	1.66	U	U				2.62	U	U	0.74	U	U	2.77	U	U			
2-Methylnaphthalene	38	64	1.90	U	U				2.95	U	U	0.85	U	U	3.16	U	U			
Total LPAH	960	5300	2.06	U	U				3.25	U	U	1.47	J	J	3.48	U	U			
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	1.82	U	U				2.88	U	U	3.98			3.04	U	U			
Pyrene	1000	1400	1.78	U	U				2.80	U	U	2.83			3.00	U	U			
Benzo(a)anthracene	110	270	1.37	U	U				2.14	U	U	1.26	J	J	2.29	U	U			
Chrysene	110	460	1.54	U	U				2.40	U	U	1.88	J	J	2.57	U	U			
Benzo(b)fluoranthene	—	—	2.18	U	U				3.43	U	U	1.88	J	J	3.68	U	U			
Benzo(k)fluoranthene	—	—	2.13	U	U				3.36	U	U	1.26	J	J	3.60	U	U			
Benzofluoranthenes	230	450	2.18	U	U				3.43	U	U	3.14	J	J	3.68	U	U			
Benzo(a)pyrene	99	210	1.87	U	U				2.95	U	U	1.36	J	J	3.16	U	U			
Indeno(1,2,3-cd)pyrene	34	88	1.99	U	U				3.10	U	U	0.89	U	U	3.32	U	U			
Dibenz(a,h)anthracene	12	33	1.97	U	U				3.10	U	U	0.88	U	U	3.32	U	U			
Benzo(g,h,i)perylene	31	78	1.56	U	U				2.44	U	U	0.70	U	U	2.61	U	U			
Retene	—	—																		
Total HPAH	960	5300	2.18	U	U				3.43	U	U	14.45	J	J	3.68	U	U			
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	1.71	U	U				2.69	U	U	0.76	U	U	2.89	U	U			
1,4-Dichlorobenzene	3.1	9	1.71	U	U				2.66	U	U	0.76	U	U	2.85	U	U			
1,2-Dichlorobenzene	2.3	2.3	1.82	U	U				2.84	U	U	0.82	U	U	3.04	U	U			
1,2,4-Trichlorobenzene	0.81	1.8	2.09	U	U				3.28	U	U	0.94	U	U	3.52	U	U			
Hexachlorobenzene	0.38	2.3	1.85	U	U				2.92	U	U	0.83	U	U	3.08	U	U			
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	1.78	U	U				2.80	U	U	0.81	U	U	3.00	U	U			
Diethylphthalate	61	110	3.79	U	U				5.90	U	U	1.68	U	U	6.32	U	U			
Di-n-Butylphthalate	220	1700	2.84	U	U				4.43	U	U	1.26	U	U	4.74	U	U			
Butylbenzylphthalate	4.9	64	2.61	U	U				4.06	U	U	1.15	U	U	4.35	U	U			
bis(2-Ethylhexyl)phthalate	47	78	5.69						4.06	U	U	2.62			4.35	U	U			
Di-n-Octylphthalate	58	4500	1.92	U	U				3.03	U	U	0.86	U	U	3.24	U	U			
Phenols in ug/kg DW																				
Phenol	420	1200	13	U	U				13	U	U	16	J	J	13	U	U			
2-Methylphenol	63	63	14	U	U				14	U	U	14	U	U	14	U	U			
4-Methylphenol	670	670	12	U	U				13	U	U	77			13	U	U			
2,4-Dimethylphenol	29	29	14	U	U				15	U	U	15	U	U	14	U	U			
Pentachlorophenol	360	690	46	U	U				47	U	U	47	U	U	47	U	U			

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A1-31B			A1-31			A1-38			A1-44			A1-46B			A1-46		
Collection Date	SQS	CSL	08/12/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/15/2008	LQ	VQ	08/04/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—																		
4,5-Dichloroguaiacol	—	—																		
4,5,6-Trichloroguaiacol	—	—																		
3,4,5-Trichloroguaiacol	—	—																		
Tetrachloroguaiacol	—	—																		
Pimaric Acid	—	—																		
Isopimaric Acid	—	—																		
Dehydroabietic Acid	—	—																		
Abietic Acid	—	—																		
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U				14	U	U	14	U	U	14	U	UJ			
Benzoic Acid (ug/kg DW)	650	650	110	U	U				110	U	U	110	U	U	110	U	U			
Dibenzofuran	15	58	1.73	U	U				2.73	U	U	0.79	U	U	2.92	U	U			
Hexachlorobutadiene	3.9	6.2	1.87	U	U				2.95	U	U	0.84	U	U	3.12	U	U			
N-Nitrosodiphenylamine	28	130	1.99	U	U				3.14	U	U	0.90	U	U	3.36	U	U			
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Aroclor-1232	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Aroclor-1242	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Aroclor-1016	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Aroclor-1248	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Aroclor-1254	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Aroclor-1260	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Aroclor-1262	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Aroclor-1268	—	—	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Total PCBs	12	65	1.49	U	U				2.36	U	U	0.68	U	U	2.53	U	U			
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—																		
4,4'-DDE	—	—																		
4,4'-DDD	—	—																		
gamma-BHC (Lindane)	—	—																		
Heptachlor	—	—																		
Aldrin	—	—																		
Dieldrin	—	—																		
gamma Chlordane	—	—																		
alpha Chlordane	—	—																		
oxy Chlordane	—	—																		
cis-Nonachlor	—	—																		
trans-Nonachlor	—	—																		
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—	0.042	U	U										0.0484	KJ	U			
1,2,3,7,8-PECDD	—	—	0.109	U	U										0.126	U	U			
1,2,3,4,7,8-HXCDD	—	—	0.16	U	U										0.184	U	U			
1,2,3,6,7,8-HXCDD	—	—	0.151	U	U										0.174	U	U			
1,2,3,7,8,9-HXCDD	—	—	0.143	U	U										0.165	U	U			
1,2,3,4,6,7,8-HPCDD	—	—	3.3	J	J										1.31	J	J			
OCDD	—	—	23.6												12.9					
2,3,7,8-TCDF	—	—	0.042	KJ	U										0.0526	KJ	U			
1,2,3,7,8-PECDF	—	—	0.0799	U	U										0.092	U	U			
2,3,4,7,8-PECDF	—	—	0.0807	U	U										0.0929	U	U			
1,2,3,4,7,8-HXCDF	—	—	0.0765	KJ	U										0.0881	U	U			
1,2,3,6,7,8-HXCDF	—	—	0.101	U	U										0.116	U	U			
1,2,3,7,8,9-HXCDF	—	—	0.0782	U	U										0.09	U	U			
2,3,4,6,7,8-HXCDF	—	—	0.101	U	U										0.116	U	U			
1,2,3,4,6,7,8-HPCDF	—	—	0.405	J	J										0.203	J	J			
1,2,3,4,7,8,9-HPCDF	—	—	0.074	U	U										0.0852	U	U			
OCDF	—	—	1.06	J	J										0.287	J	J			
TEQ 0 DL	—	—	0.0444												0.0191					
TEQ 1/2 DL	—	—	0.176												0.171					

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-02			A2-07			A2-08			A2-10			A2-10-D			A2-10-T		
Collection Date	SQS	CSL	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	0.426			0.254			0.238			0.923								
TVS (% DW)	—	—	1.52			1.86			1.5			4.36								
Total Solids (% DW)	—	—	74.2			69.8			70.3			68.2								
Preserved Total Solids (% DW)	—	—	73.4			70			70			63.5								
Ammonia (mg-N/kg DW)	—	—	0.95			2.95			0.96			4.58		J						
Total Sulfides (mg/kg DW)	—	—	0.01	U	U	17.4			0.01	U	U	126								
Grain Size																				
Phi Scale <-1	—	—		U	U	0.1				U	U	0.1								
Phi Scale -1 to 0	—	—		U	U	0.1				U	U	0.4								
Phi Scale 0 to 1	—	—	2.6			0.6			0.6			1.8								
Phi Scale 1 to 2	—	—	39.7			7.8			11.5			2.1								
Phi Scale 2 to 3	—	—	48.2			58.3			70.5			19.3								
Phi Scale 3 to 4	—	—	5.5			25.7			15.2			43								
Phi Scale 4 to 5	—	—	1.1									14.5								
Phi Scale 5 to 6	—	—	0.4									5.5								
Phi Scale 6 to 7	—	—	0.5									4.3								
Phi Scale 7 to 8	—	—	0.3									2								
Phi Scale 8 to 9	—	—	0.3									1.8								
Phi Scale 9 to 10	—	—	0.4									1.7								
Phi Scale >10	—	—	1.2									3.5								
Fines (Silt/Clay)	—	—	4.1			7.4			2.3			33.3								
Metals in mg/kg DW																				
Arsenic	57	93	12			0.7	U	U	0.7	U	U	11			10			11		
Cadmium	5.1	6.7	0.03	U	U	0.03	U	U	0.03	U	U	0.3			0.3			0.03	U	U
Chromium	—	—	30.6			34.1			30.9			40.1		J	37.8		J	38.7		J
Copper	390	390	18.6			21.4			18.8			34.5			34.5			35.2		
Lead	450	530	6			6			4			6			6			6		
Mercury	0.41	0.59	0.006	U	UJ	0.19		J	0.006	U	UJ	0.008	U	UJ	0.007	U	UJ	0.008	U	UJ
Silver	6.1	6.1	0.14	U	U	0.16	U	U	0.15	U	U	0.17	U	U	0.16	U	U	0.17	U	U
Zinc	410	960	47			49			44			59			58			58		
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—																		
Tributyl Tin Ion	—	—																		
Butyl Tin Ion	—	—																		
LPAH in mg/kg TOC																				
Naphthalene	99	170	2.00	U	U	3.27	U	U	3.53	U	U	1.52	J	J		U	U			
Acenaphthylene	66	66	2.00	U	U	3.27	U	U	3.53	U	U	0.91	U	U		U	U			
Acenaphthene	16	57	1.90	U	U	3.11	U	U	3.36	U	U	0.87	U	U		U	U			
Fluorene	23	79	2.07	U	U	3.39	U	U	3.66	U	U	0.94	U	U		U	U			
Phenanthrene	100	480	1.95	U	U	3.15	U	U	3.45	U	U	2.17				J	J			
Anthracene	220	1200	1.78	U	U	2.91	U	U	3.15	U	U	0.81	U	U		U	U			
1-Methylnaphthalene	—	—	1.67	U	U	2.72	U	U	2.94	U	U	0.76	U	U		U	U			
2-Methylnaphthalene	38	64	1.90	U	U	3.07	U	U	3.36	U	U	0.87	U	U		U	U			
Total LPAH	960	5300	2.07	U	U	3.39	U	U	3.66	U	U	3.68	J	J		J	J			
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	1.83	U	U	2.99	U	U	3.24	U	U	3.25								
Pyrene	1000	1400	1.78	U	U	2.91	U	U	3.15	U	U	2.17				J	J			
Benzo(a)anthracene	110	270	1.36	U	U	2.24	U	U	2.44	U	U	0.63	U	U		J	J			
Chrysene	110	460	1.53	U	U	2.52	U	U	2.73	U	U	1.30	J	J		J	J			
Benzo(b)fluoranthene	—	—	2.21	U	U	3.58	U	U	3.91	U	U	1.30	J	J		J	J			
Benzo(k)fluoranthene	—	—	2.14	U	U	3.50	U	U	3.78	U	U	0.98	U	U		J	J			
Benzofluoranthenes	230	450	2.21	U	U	3.58	U	U	3.91	U	U	1.30	J	J		J	J			
Benzo(a)pyrene	99	210	1.88	U	U	3.07	U	U	3.32	U	U	0.87	U	U		J	J			
Indeno(1,2,3-cd)pyrene	34	88	2.00	U	U	3.23	U	U	3.53	U	U	0.91	U	U		U	U			
Dibenz(a,h)anthracene	12	33	1.97	U	U	3.23	U	U	3.49	U	U	0.90	U	U		U	U			
Benzo(g,h,i)perylene	31	78	1.55	U	U	2.56	U	U	2.77	U	U	0.72	U	U		U	U			
Retene	—	—																		
Total HPAH	960	5300	2.21	U	U	3.58	U	U	3.91	U	U	9.32	J	J		J	J			
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	1.71	U	U	2.80	U	U	3.03	U	U	0.79	U	U		U	U			
1,4-Dichlorobenzene	3.1	9	1.69	U	U	2.76	U	U	3.03	U	U	0.78	U	U		U	U			
1,2-Dichlorobenzene	2.3	2.3	1.81	U	U	2.95	U	U	3.24	U	U	0.83	U	U		U	U			
1,2,4-Trichlorobenzene	0.81	1.8	2.09	U	U	3.43	U	U	3.70	U	U	0.95	U	U		U	U			
Hexachlorobenzene	0.38	2.3	1.85	U	U	3.03	U	U	3.28	U	U	0.85	U	U		U	U			
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	1.78	U	U	2.91	U	U	3.15	U	U	0.82	U	U		U	U			
Diethylphthalate	61	110	3.76	U	U	6.30	U	U	6.72	U	U	1.73	U	U		U	U			
Di-n-Butylphthalate	220	1700	2.82	U	U	4.72	U	U	5.04	U	U	1.52	J	J		U	U			
Butylbenzylphthalate	4.9	64	2.58	U	U	4.33	U	U	4.62	U	U	1.19	U	U		U	U			
bis(2-Ethylhexyl)phthalate	47	78	2.58	U	U	4.33	U	U	4.62	U	U	2.38								
Di-n-Octylphthalate	58	4500	1.92	U	U	3.15	U	U	3.40	U	U	0.88	U	U		U	U			
Phenols in ug/kg DW																				
Phenol	420	1200	13	U	U	13	U	U	13	U	U	13	U	U	13	U	U			
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U			
4-Methylphenol	670	670	13	U	U	12	U	U	12	U	U	14	J	J	17	J	J			
2,4-Dimethylphenol	29	29	15	U	U	14	U	U	14	U	U	14	U	U	14	U	U			
Pentachlorophenol	360	690	47	U	U	46	U	U	46	U	U	46	U	U	46	U	U			

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-02			A2-07			A2-08			A2-10			A2-10-D			A2-10-T		
Collection Date	SQS	CSL	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—																		
4,5-Dichloroguaiacol	—	—																		
4,5,6-Trichloroguaiacol	—	—																		
3,4,5-Trichloroguaiacol	—	—																		
Tetrachloroguaiacol	—	—																		
Pimaric Acid	—	—																		
Isopimaric Acid	—	—																		
Dehydroabietic Acid	—	—																		
Abietic Acid	—	—																		
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U			
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U			
Dibenzofuran	15	58	1.74	U	U	2.83	U	U	3.07	U	U	0.80	U	U		U	U			
Hexachlorobutadiene	3.9	6.2	1.88	U	U	3.07	U	U	3.32	U	U	0.86	U	U		U	U			
N-Nitrosodiphenylamine	28	130	2.00	U	U	3.27	U	U	3.53	U	U	0.92	U	U		U	U			
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Aroclor-1232	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Aroclor-1242	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Aroclor-1016	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Aroclor-1248	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	Y	U		U	U			
Aroclor-1254	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Aroclor-1260	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Aroclor-1262	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Aroclor-1268	—	—	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Total PCBs	12	65	1.55	U	U	2.56	U	U	2.77	U	U	0.69	U	U		U	U			
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—																		
4,4'-DDE	—	—																		
4,4'-DDD	—	—																		
gamma-BHC (Lindane)	—	—																		
Heptachlor	—	—																		
Aldrin	—	—																		
Dieldrin	—	—																		
gamma Chlordane	—	—																		
alpha Chlordane	—	—																		
oxy Chlordane	—	—																		
cis-Nonachlor	—	—																		
trans-Nonachlor	—	—																		
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—	0.0388	KJ	U				0.0409	KJ	U									
1,2,3,7,8-PECDD	—	—	0.101	U	U				0.106	U	U									
1,2,3,4,7,8-HXCDD	—	—	0.148	U	U				0.155	U	U									
1,2,3,6,7,8-HXCDD	—	—	0.177	J	J				0.259	J	J									
1,2,3,7,8,9-HXCDD	—	—	0.163	J	J				0.277	J	J									
1,2,3,4,6,7,8-HPCDD	—	—	1.83	J	J				3.53	J	J									
OCDD	—	—	14.3						26											
2,3,7,8-TCDF	—	—	0.0388	KJ	U				0.175	J	J									
1,2,3,7,8-PECDF	—	—	0.0738	U	U				0.0777	U	U									
2,3,4,7,8-PECDF	—	—	0.0746	U	U				0.083	J	J									
1,2,3,4,7,8-HXCDF	—	—	0.0707	U	U				0.096	J	J									
1,2,3,6,7,8-HXCDF	—	—	0.0932	U	U				0.0982	U	U									
1,2,3,7,8,9-HXCDF	—	—	0.0722	U	U				0.0761	U	U									
2,3,4,6,7,8-HXCDF	—	—	0.0932	U	U				0.0982	U	U									
1,2,3,4,6,7,8-HPCDF	—	—	0.361	J	J				0.642	J	J									
1,2,3,4,7,8,9-HPCDF	—	—	0.0683	U	U				0.072	U	U									
OCDF	—	—	0.651	J	J				1.41	J	J									
TEQ 0 DL	—	—	0.0604						0.156											
TEQ 1/2 DL	—	—	0.169						0.252											

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-11			A2-13			A2-14			A2-16			A2-18B			A2-18		
Collection Date	SQS	CSL	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/07/2008	LQ	VQ	08/11/2008	LQ	VQ	08/14/2008	LQ	VQ	08/11/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	0.799			1.78			1.29			1.29			2.46			1.07		
TVS (% DW)	—	—	4.29			6.82			9.99			4.9			6.42			4.49		
Total Solids (% DW)	—	—	68.2			53.8			48.1			55.8			65.9			58.6		
Preserved Total Solids (% DW)	—	—	72.2			54.8			43.9			59.6			61.5			57.2		
Ammonia (mg-N/kg DW)	—	—	4.13		J	8.79		J	12.7			4.82			5.44		J	4.67		
Total Sulfides (mg/kg DW)	—	—	109			137			105			98.5			24.5		J	74.6		
Grain Size																				
Phi Scale <-1	—	—	1.7			0.2			2.1			0.4			8.1			0.5		
Phi Scale -1 to 0	—	—	0.6			0.8			1.9			0.8			0.8			0.8		
Phi Scale 0 to 1	—	—	0.7			0.7			2			1.4			1.5			1.8		
Phi Scale 1 to 2	—	—	27.2			1.8			2.3			3.2			10.4			8.9		
Phi Scale 2 to 3	—	—	53.5			3.8			4.1			11.9			43.4			20		
Phi Scale 3 to 4	—	—	7.4			9.6			28.6			27.9			11			16.2		
Phi Scale 4 to 5	—	—	3.2			14.4			22.6			17.9			6			15.8		
Phi Scale 5 to 6	—	—	1.5			23.3			12.7			14.3			6.5			13.8		
Phi Scale 6 to 7	—	—	1.8			16.6			8.3			8.5			1.7			8.3		
Phi Scale 7 to 8	—	—	0.3			10.2			4.8			4.1			4.9			4.1		
Phi Scale 8 to 9	—	—	0.5			4.5			2.3			2.3			1.5			2.4		
Phi Scale 9 to 10	—	—	0.3			5.5			2.1			2.3			1.5			2.1		
Phi Scale >10	—	—	1.1			8.7			6.2			4.9			2.6			5.3		
Fines (Silt/Clay)	—	—	8.8			83.2			59			54.4			24.7			51.9		
Metals in mg/kg DW																				
Arsenic	57	93	8			20			12						11			13		
Cadmium	5.1	6.7	0.03	U	U	0.4			0.04	U	U				0.03	U	U	0.03	U	U
Chromium	—	—	31.9		J	59		J	53						40.5			39.1		
Copper	390	390	23.1			60			47.7						28.9			35.2		
Lead	450	530	5			11			9						8			8		
Mercury	0.41	0.59	0.006	U	UJ	0.12		J	0.01	U	U				0.007	U	U	0.008	U	U
Silver	6.1	6.1	0.16	U	U	0.21	U	U	0.2	U	U				0.18	U	U	0.18	U	U
Zinc	410	960	52			90			75						67			67		
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—	5.2	U	U	5.6	U	U												
Tributyl Tin Ion	—	—	3.5	U	U	3.8	U	U												
Butyl Tin Ion	—	—	3.6	U	U	3.9	U	U												
LPAH in mg/kg TOC																				
Naphthalene	99	170	1.06	U	U	0.48	U	U	2.25						0.35	U	U	0.80	U	U
Acenaphthylene	66	66	1.06	U	U	0.48	U	U	0.67	U	U				0.35	U	U	0.79	U	U
Acenaphthene	16	57	1.01	U	U	0.46	U	U	0.63	U	U				0.33	U	U	0.76	U	U
Fluorene	23	79	1.10	U	U	0.49	U	U	1.78						0.36	U	U	0.82	U	U
Phenanthrene	100	480	1.04	U	U	1.29			7.44						0.33	U	U	0.78	U	U
Anthracene	220	1200	0.95	U	U	1.07	J	J	0.60	U	U				0.31	U	U	0.71	U	U
1-Methylnaphthalene	—	—	0.89	U	U	0.40	U	U	0.55	U	U				0.29	U	U	0.66	U	U
2-Methylnaphthalene	38	64	1.01	U	U	0.45	U	U	0.63	U	U				0.33	U	U	0.76	U	U
Total LPAH	960	5300	1.10	U	U	2.36	J	J	11.47						0.36	U	U	0.82	U	U
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	4.63			3.65			6.98						1.22			0.73	U	U
Pyrene	1000	1400	4.01			2.36			5.58						1.06			0.71	U	U
Benzo(a)anthracene	110	270	0.73	U	U	0.79	J	J	1.63						0.24	U	U	0.54	U	U
Chrysene	110	460	2.50			1.46			2.40						0.26	U	U	0.61	U	U
Benzo(b)fluoranthene	—	—	1.18	U	U	1.63			0.73	U	U				0.38	U	U	0.88	U	U
Benzo(k)fluoranthene	—	—	1.14	U	U	0.84	J	J	1.71						0.37	U	U	0.85	U	U
Benzofluoranthenes	230	450	1.18	U	U	2.47	J	J	1.71						0.38	U	U	0.88	U	U
Benzo(a)pyrene	99	210	1.00	U	U	0.67	J	J	0.63	U	U				0.33	U	U	0.75	U	U
Indeno(1,2,3-cd)pyrene	34	88	1.06	U	U	0.47	U	U	0.66	U	U				0.34	U	U	0.79	U	U
Dibenz(a,h)anthracene	12	33	1.05	U	U	0.47	U	U	0.66	U	U				0.34	U	U	0.79	U	U
Benzo(g,h,i)perylene	31	78	0.83	U	U	0.37	U	U	0.52	U	U				0.27	U	U	0.63	U	U
Retene	—	—																		
Total HPAH	960	5300	11.14			11.40	J	J	18.29						2.28			0.88	U	U
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.91	U	U	0.41	U	U	0.57	U	U				0.30	U	U	0.68	U	U
1,4-Dichlorobenzene	3.1	9	0.90	U	U	0.40	U	U	0.57	U	U				0.29	U	U	0.67	U	U
1,2-Dichlorobenzene	2.3	2.3	0.96	U	U	0.43	U	U	0.60	U	U				0.31	U	U	0.73	U	U
1,2,4-Trichlorobenzene	0.81	1.8	1.11	U	U	0.50	U	U	0.70	U	U				0.36	U	U	0.83	U	U
Hexachlorobenzene	0.38	2.3	0.99	U	U	0.44	U	U	0.61	U	U				0.32	U	U	0.74	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.95	U	U	0.43	U	U	0.60	U	U				0.31	U	U	0.71	U	U
Diethylphthalate	61	110	2.00	U	U	0.90	U	U	1.24	U	U				0.65	U	U	1.50	U	U
Di-n-Butylphthalate	220	1700	1.50	U	U	0.67	U	U	0.93	U	U				0.49	U	U	1.12	U	U
Butylbenzylphthalate	4.9	64	1.38	U	U	0.62	U	U	0.85	U	U				0.45	U	U	1.03	U	U
bis(2-Ethylhexyl)phthalate	47	78	1.38	U	U	4.16			5.27						0.45	U	U	1.03	U	U
Di-n-Octylphthalate	58	4500	1.03	U	U	0.46	U	U	0.64	U	U				0.33	U	U	0.77	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	13	U	U	140			14	U	U				13	U	U	15	J	J
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U				14	U	U	14	U	U
4-Methylphenol	670	670	13	U	U	490			20						13	U	U	13	U	U
2,4-Dimethylphenol	29	29	15	U	U	15	U	U	15	U	U				15	U	U	15	U	U
Pentachlorophenol	360	690	47	U	U	47	U	U	47	U	U				47	U	U	47	U	U

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-11			A2-13			A2-14			A2-16			A2-18B			A2-18		
Collection Date	SQS	CSL	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/07/2008	LQ	VQ	08/11/2008	LQ	VQ	08/14/2008	LQ	VQ	08/11/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—																20	U	U
4,5-Dichloroguaiacol	—	—																20	U	U
4,5,6-Trichloroguaiacol	—	—																20	U	U
3,4,5-Trichloroguaiacol	—	—																20	U	U
Tetrachloroguaiacol	—	—																20	U	U
Pimaric Acid	—	—																200	U	U
Isopimaric Acid	—	—																200	U	U
Dehydroabietic Acid	—	—																150	J	J
Abietic Acid	—	—																200	U	UJ
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	U	U	14	U	U				14	U	UJ	20	U	R
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U	110	U	U				110	U	U	110	U	U
Dibenzofuran	15	58	0.93	U	U	0.42	U	U	0.58	U	U				0.30	U	U	0.69	U	U
Hexachlorobutadiene	3.9	6.2	1.00	U	U	0.45	U	U	0.62	U	U				0.33	U	U	0.75	U	U
N-Nitrosodiphenylamine	28	130	1.06	U	U	0.48	U	U	0.67	U	U				0.35	U	U	0.80	U	U
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Aroclor-1232	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Aroclor-1242	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Aroclor-1016	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Aroclor-1248	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Aroclor-1254	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Aroclor-1260	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Aroclor-1262	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Aroclor-1268	—	—	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Total PCBs	12	65	0.81	U	U	0.37	U	U	0.51	U	U				0.26	U	U	0.61	U	U
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—																0.08	U	U
4,4'-DDE	—	—																0.10	U	U
4,4'-DDD	—	—																0.12	U	U
gamma-BHC (Lindane)	—	—																0.04	U	U
Heptachlor	—	—																0.04	U	U
Aldrin	—	—																0.04	U	U
Dieldrin	—	—																0.08	U	U
gamma Chlordane	—	—																0.09	U	U
alpha Chlordane	—	—																0.03	U	U
oxy Chlordane	—	—																0.07	U	U
cis-Nonachlor	—	—																0.09	U	U
trans-Nonachlor	—	—																0.09	U	U
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—													0.311	J	J			
1,2,3,7,8-PECDD	—	—													0.799	J	J			
1,2,3,4,7,8-HXCDD	—	—													1.12	J	J			
1,2,3,6,7,8-HXCDD	—	—													4.29	J	J			
1,2,3,7,8,9-HXCDD	—	—													2.87	J	J			
1,2,3,4,6,7,8-HPCDD	—	—													56.7					
OCDD	—	—													377					
2,3,7,8-TCDF	—	—													2.16					
1,2,3,7,8-PECDF	—	—													0.525	J	J			
2,3,4,7,8-PECDF	—	—													0.688	J	J			
1,2,3,4,7,8-HXCDF	—	—													1.01	J	J			
1,2,3,6,7,8-HXCDF	—	—													0.555	J	J			
1,2,3,7,8,9-HXCDF	—	—													0.0788	U	U			
2,3,4,6,7,8-HXCDF	—	—													0.515	J	J			
1,2,3,4,6,7,8-HPCDF	—	—													11.7					
1,2,3,4,7,8,9-HPCDF	—	—													1.02	J	J			
OCDF	—	—													31					
TEQ 0 DL	—	—													3.4					
TEQ 1/2 DL	—	—													3.4					

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-21			A2-22			A2-23			A2-25B			A2-25			A2-26		
Collection Date	SQS	CSL	08/11/2008	LQ	VQ	08/04/2008	LQ	VQ	08/11/2008	LQ	VQ	08/14/2008	LQ	VQ	08/07/2008	LQ	VQ	08/11/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	1.22			0.143			0.979			2.22			0.976			0.689		
TVS (% DW)	—	—	7.48			0.97			4.56			8.32			5.13			2.03		
Total Solids (% DW)	—	—	51.7			80.2			59			55.7			59.4			72.1		
Preserved Total Solids (% DW)	—	—	50			80.6			67.9			50.1			59.1			72.5		
Ammonia (mg-N/kg DW)	—	—	13.9			0.03	U	UJ	4.26			4.38		J	6.28			3.22		
Total Sulfides (mg/kg DW)	—	—	805			0.01	U	U	18.7			23		J	3.41			0.01	U	U
Grain Size																				
Phi Scale <-1	—	—	0.9			0.4			0.5			1.9			1.6			0.4		
Phi Scale -1 to 0	—	—	1.2			4.5			1			1.1			0.7			3.7		
Phi Scale 0 to 1	—	—	1.9			39.9			4.7			2.2			1.1			17.5		
Phi Scale 1 to 2	—	—	6.1			50.9			16.4			4			3			34.7		
Phi Scale 2 to 3	—	—	6.8			2.4			10.4			5.7			8.2			12.5		
Phi Scale 3 to 4	—	—	22			0.3			21.7			11.2			26.4			12.5		
Phi Scale 4 to 5	—	—	23.4						16.3			20.4			27.4			6		
Phi Scale 5 to 6	—	—	15.6						10.5			24			12.9			5.6		
Phi Scale 6 to 7	—	—	6.7						5.4			11			6.1			2.1		
Phi Scale 7 to 8	—	—	4						3.8			8.1			3.6			1.4		
Phi Scale 8 to 9	—	—	2.8						2.6			3.2			2			1.1		
Phi Scale 9 to 10	—	—	2.1						1.9			2.8			2			0.6		
Phi Scale >10	—	—	6.4						4.9			4.3			5			1.8		
Fines (Silt/Clay)	—	—	61			1.5			45.4			73.8			59			18.7		
Metals in mg/kg DW																				
Arsenic	57	93				6			11			13			12			7		
Cadmium	5.1	6.7				0.02	U	U	0.03	U	U	0.04	U	U	0.03	U	U	0.03	U	U
Chromium	—	—				22		J	41.1			45.6			45.9			29.5		
Copper	390	390				12.9			34.8			46.2			40.8			22		
Lead	450	530				3			7			11			8			6		
Mercury	0.41	0.59	0.08	*		0.005	U	UJ	0.07			0.1			0.008	U	U	0.005	U	U
Silver	6.1	6.1				0.13	U	U	0.17	U	U	0.2	U	U	0.18	U	U	0.14	U	U
Zinc	410	960				36			63			79			68			51		
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—																		
Tributyl Tin Ion	—	—																		
Butyl Tin Ion	—	—																		
LPAH in mg/kg TOC																				
Naphthalene	99	170				5.87	U	U	0.88	U	U	1.40			0.86	U	U	1.26	U	U
Acenaphthylene	66	66				5.87	U	U	0.88	U	U	0.39	U	U	0.86	U	U	1.25	U	U
Acenaphthene	16	57				5.59	U	U	0.84	U	U	0.37	U	U	0.82	U	U	1.19	U	U
Fluorene	23	79				6.08	U	U	0.91	U	U	0.40	U	U	0.89	U	U	1.29	U	U
Phenanthrene	100	480				5.66	U	U	1.12	J	J	1.35			3.48			1.74	J	J
Anthracene	220	1200				5.24	U	U	0.79	U	U	0.35	U	U	0.77	U	U	1.12	U	U
1-Methylnaphthalene	—	—				4.90	U	U	0.74	U	U	0.32	U	U	0.72	U	U	1.04	U	U
2-Methylnaphthalene	38	64				5.59	U	U	0.84	U	U	0.37	U	U	0.81	U	U	1.19	U	U
Total LPAH	960	5300				6.08	U	U	1.12	J	J	2.75			3.48			1.74	J	J
HPAH in mg/kg TOC																				
Fluoranthene	160	1200				5.38	U	U	3.88			1.80			5.43			3.19		
Pyrene	1000	1400				5.24	U	U	3.47			1.58			4.71			3.77		
Benzo(a)anthracene	110	270				3.99	U	U	1.84	J	J	0.27	U	U	0.58	U	U	0.86	U	U
Chrysene	110	460				4.48	U	U	2.86			1.67			2.87			1.74	J	J
Benzo(b)fluoranthene	—	—				6.43	U	U	1.43	J	J	0.43	U	U	2.25			1.38	U	U
Benzo(k)fluoranthene	—	—				6.29	U	U	1.84	J	J	0.41	U	U	0.92	U	U	1.34	U	U
Benzofluoranthenes	230	450				6.43	U	U		J		0.43	U	U	2.25			1.38	U	U
Benzo(a)pyrene	99	210				5.52	U	U	1.43	J	J	0.36	U	U	0.81	U	U	1.18	U	U
Indeno(1,2,3-cd)pyrene	34	88				5.80	U	U	0.88	U	U	0.39	U	U	0.85	U	U	1.25	U	U
Dibenz(a,h)anthracene	12	33				5.80	U	U	0.87	U	U	0.38	U	U	0.85	U	U	1.23	U	U
Benzo(g,h,i)perylene	31	78				4.62	U	U	0.68	U	U	0.30	U	U	0.67	U	U	0.97	U	U
Retene	—	—	9.02	*																
Total HPAH	960	5300				6.43	U	U	16.75	J	J	5.05	U	U	15.27	U	U	8.71	J	J
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—				5.03	U	U	0.76	U	U	0.33	U	U	0.74	U	U	1.07	U	U
1,4-Dichlorobenzene	3.1	9				4.97	U	U	0.75	U	U	0.33	U	U	0.73	U	U	1.06	U	U
1,2-Dichlorobenzene	2.3	2.3				5.31	U	U	0.80	U	U	0.36	U	U	0.78	U	U	1.15	U	U
1,2,4-Trichlorobenzene	0.81	1.8				6.15	U	U	0.92	U	U	0.41	U	U	0.90	U	U	1.32	U	U
Hexachlorobenzene	0.38	2.3				5.45	U	U	0.82	U	U	0.36	U	U	0.80	U	U	1.16	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53				5.24	U	U	0.79	U	U	0.35	U	U	0.77	U	U	1.12	U	U
Diethylphthalate	61	110				11.19	U	U	1.63	U	U	0.72	U	U	1.64	U	U	2.32	U	U
Di-n-Butylphthalate	220	1700				8.39	U	U	1.23	U	U	0.54	U	U	1.23	U	U	1.74	U	U
Butylbenzylphthalate	4.9	64				7.69	U	U	1.12	U	U	0.50	U	U	1.13	U	U	1.60	U	U
bis(2-Ethylhexyl)phthalate	47	78				7.69	U	U	1.43	J	J	0.50	U	U	2.36			1.89	J	J
Di-n-Octylphthalate	58	4500				5.66	U	U	0.85	U	U	0.37	U	U	0.83	U	U	1.20	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	14	*U		13	U	U	14	U	U	14	U	U	13	U	U	14	U	U
2-Methylphenol	63	63	14	*U		14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	13	*U		12	U	U	13	U	U	13	U	U	12	U	U	13	U	U
2,4-Dimethylphenol	29	29	15	*U		14	U	U	15	U	U	15	U	U	14	U	U	15	U	U
Pentachlorophenol	360	690	47	*U		46	U	U	47	U	U	47	U	U	46	U	U	47	U	U

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-21			A2-22			A2-23			A2-25B			A2-25			A2-26		
Collection Date	SQS	CSL	08/11/2008	LQ	VQ	08/04/2008	LQ	VQ	08/11/2008	LQ	VQ	08/14/2008	LQ	VQ	08/07/2008	LQ	VQ	08/11/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—	20	*U											19	U	U			
4,5-Dichloroguaiacol	—	—	20	*U											19	U	U			
4,5,6-Trichloroguaiacol	—	—	20	*U											19	U	U			
3,4,5-Trichloroguaiacol	—	—	20	*U											19	U	U			
Tetrachloroguaiacol	—	—	20	*U											19	U	U			
Pimaric Acid	—	—	99	*U											200	U	U			
Isopimaric Acid	—	—	99	*U											200	U	U			
Dehydroabietic Acid	—	—	220												230					
Abietic Acid	—	—	290	*J	J										200	U	UJ			
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73				14	U	U	14	U	U	14	U	UJ	14	U	U	14	U	U
Benzoic Acid (ug/kg DW)	650	650				110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58				5.10	U	U	0.77	U	U	0.34	U	U	0.75	U	U	1.09	U	U
Hexachlorobutadiene	3.9	6.2				5.52	U	U	0.83	U	U	0.36	U	U	0.81	U	U	1.18	U	U
N-Nitrosodiphenylamine	28	130				5.87	U	U	0.88	U	U	0.39	U	U	0.86	U	U	1.26	U	U
PCBs in mg/kg TOC																				
Aroclor-1221	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Aroclor-1232	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Aroclor-1242	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Aroclor-1016	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Aroclor-1248	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Aroclor-1254	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Aroclor-1260	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Aroclor-1262	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Aroclor-1268	—	—				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Total PCBs	12	65				4.48	U	U	0.67	U	U	0.29	U	U	0.68	U	U	0.96	U	U
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—																		
4,4'-DDE	—	—																		
4,4'-DDD	—	—																		
gamma-BHC (Lindane)	—	—																		
Heptachlor	—	—																		
Aldrin	—	—																		
Dieldrin	—	—																		
gamma Chlordane	—	—																		
alpha Chlordane	—	—																		
oxy Chlordane	—	—																		
cis-Nonachlor	—	—																		
trans-Nonachlor	—	—																		
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—										0.0443	KJ	U						
1,2,3,7,8-PECDD	—	—										0.567	J	J						
1,2,3,4,7,8-HXCDD	—	—										0.169	KJ	U						
1,2,3,6,7,8-HXCDD	—	—										2.95	J	J						
1,2,3,7,8,9-HXCDD	—	—										2.54	J	J						
1,2,3,4,6,7,8-HPCDD	—	—										46.5								
OCDD	—	—										376								
2,3,7,8-TCDF	—	—										1.29								
1,2,3,7,8-PECDF	—	—										0.349	J	J						
2,3,4,7,8-PECDF	—	—										0.504	J	J						
1,2,3,4,7,8-HXCDF	—	—										0.781	J	J						
1,2,3,6,7,8-HXCDF	—	—										0.106	KJ	U						
1,2,3,7,8,9-HXCDF	—	—										0.0825	U	U						
2,3,4,6,7,8-HXCDF	—	—										0.515	J	J						
1,2,3,4,6,7,8-HPCDF	—	—										8.89								
1,2,3,4,7,8,9-HPCDF	—	—										0.531	J	J						
OCDF	—	—										20.6								
TEQ 0 DL	—	—										2.21								
TEQ 1/2 DL	—	—										2.25								

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-28			A2-29			A2-30			A2-32			A2-33B			A2-34B		
Collection Date	SQS	CSL	08/04/2008	LQ	VQ	08/11/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	0.933			1.02			0.304			0.17			0.145			0.911		
TVS (% DW)	—	—	1.14			3.1			1.17			1.04			0.97			2.71		
Total Solids (% DW)	—	—	85			63.9			82.2			78.6			79.6			71.9		
Preserved Total Solids (% DW)	—	—	76.4			64.3			79.3			78.7			76.9			72.3		
Ammonia (mg-N/kg DW)	—	—	0.03	U	UJ	4.63			0.03	U	UJ	0.03	U	UJ	0.06	U	U	9.05		
Total Sulfides (mg/kg DW)	—	—	0.01	U	U	8.73			0.01	U	U	0.01	U	U	0.01	U	U	6.24		
Grain Size																				
Phi Scale <-1	—	—	7.9			0.8			4.1			0.5			0.4			13.9		
Phi Scale -1 to 0	—	—	19.6			0.8			14.3			4.2			11.1			14.3		
Phi Scale 0 to 1	—	—	33.3			4.1			52.4			43.5			60.7			17		
Phi Scale 1 to 2	—	—	33.3			22.1			26.3			44.3			25.2			14.5		
Phi Scale 2 to 3	—	—	4.4			18.2			1.9			4.3			1.1			8.9		
Phi Scale 3 to 4	—	—	0.3			24.2			0.4			0.4			0.4			11.2		
Phi Scale 4 to 5	—	—				13.4												9.1		
Phi Scale 5 to 6	—	—				6												4.6		
Phi Scale 6 to 7	—	—				2.8												2.3		
Phi Scale 7 to 8	—	—				2.1												1.4		
Phi Scale 8 to 9	—	—				1.4												0.8		
Phi Scale 9 to 10	—	—				1.3												0.5		
Phi Scale >10	—	—				2.8												1.3		
Fines (Silt/Clay)	—	—	1.3			29.8			0.6			2.8			1			20.1		
Metals in mg/kg DW																				
Arsenic	57	93	7			9			0.6	U	U	7			7			10		
Cadmium	5.1	6.7	0.02	U	U	0.03	U	U	0.02	U	U	0.02	U	U	0.02	U	U	0.03	U	U
Chromium	—	—	22.2		J	34.2			22.3		J	24.9		J	25.6			39.4		
Copper	390	390	16.9			29			18.1			16.1			16.2			25.1		
Lead	450	530	4			7			5			3			3			6		
Mercury	0.41	0.59	0.004	U	UJ	0.006	U	U	0.005	U	UJ	0.005	U	UJ	0.005	U	U	0.006	U	U
Silver	6.1	6.1	0.13	U	U	0.16	U	U	0.13	U	U	0.13	U	U	0.14	U	U	0.15	U	U
Zinc	410	960	41			54			41			39			42			51		
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—										5	U	U						
Tributyl Tin Ion	—	—										3.4	U	U						
Butyl Tin Ion	—	—										3.5	U	U						
LPAH in mg/kg TOC																				
Naphthalene	99	170	0.91	U	U	0.84	U	U	2.80	U	U	5.00	U	U	5.86	U	U	0.94	U	U
Acenaphthylene	66	66	0.90	U	U	0.84	U	U	2.80	U	U	5.00	U	U	5.86	U	U	0.94	U	U
Acenaphthene	16	57	0.86	U	U	0.79	U	U	2.63	U	U	4.71	U	U	5.59	U	U	0.90	U	U
Fluorene	23	79	0.93	U	U	0.87	U	U	2.89	U	U	5.12	U	U	6.07	U	U	0.98	U	U
Phenanthrene	100	480	0.88	U	U	0.81	U	U	2.70	U	U	4.82	U	U	5.66	U	U	1.10	J	J
Anthracene	220	1200	0.80	U	U	0.75	U	U	2.50	U	U	4.47	U	U	5.24	U	U	0.85	U	U
1-Methylnaphthalene	—	—	0.75	U	U	0.70	U	U	2.30	U	U	4.12	U	U	4.90	U	U	0.79	U	U
2-Methylnaphthalene	38	64	0.86	U	U	0.79	U	U	2.63	U	U	4.71	U	U	5.52	U	U	0.90	U	U
Total LPAH	960	5300	0.93	U	U	0.87	U	U	2.89	U	U	5.12	U	U	6.07	U	U	1.10	J	J
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	0.83	U	U	1.86	J	J	2.53	U	U	4.53	U	U	5.38	U	U	2.31		
Pyrene	1000	1400	0.81	U	U	1.37	J	J	2.50	U	U	4.47	U	U	5.24	U	U	1.98	J	J
Benzo(a)anthracene	110	270	0.62	U	U	1.08	J	J	1.91	U	U	3.41	U	U	4.00	U	U	1.10	J	J
Chrysene	110	460	0.70	U	U	1.57	J	J	2.14	U	U	3.82	U	U	4.48	U	U	2.41		
Benzo(b)fluoranthene	—	—	1.00	U	U	0.92	U	U	3.06	U	U	5.47	U	U	6.41	U	U	1.10	J	J
Benzo(k)fluoranthene	—	—	0.96	U	U	0.98	J	J	2.99	U	U	5.29	U	U	6.28	U	U	1.32	J	J
Benzofluoranthenes	230	450	1.00	U	U	0.98	J	J	3.06	U	U	5.47	U	U	6.41	U	U	2.41	J	J
Benzo(a)pyrene	99	210	0.85	U	U	0.79	U	U	2.63	U	U	4.71	U	U	5.52	U	U	0.89	U	U
Indeno(1,2,3-cd)pyrene	34	88	0.90	U	U	0.83	U	U	2.76	U	UJ	4.94	U	U	5.79	U	U	0.94	U	U
Dibenz(a,h)anthracene	12	33	0.89	U	U	0.83	U	U	2.76	U	UJ	4.94	U	U	5.79	U	U	0.93	U	U
Benzo(g,h,i)perylene	31	78	0.71	U	U	0.66	U	U	2.17	U	UJ	3.88	U	U	4.55	U	U	0.74	U	U
Retene	—	—																		
Total HPAH	960	5300	1.00	U	U	6.86	J	J	3.06	U	U	5.47	U	U	6.41	U	U	10.21	J	J
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.77	U	U	0.73	U	U	2.40	U	U	4.29	U	U	5.03	U	U	0.81	U	U
1,4-Dichlorobenzene	3.1	9	0.77	U	U	0.72	U	U	2.37	U	U	4.24	U	U	4.97	U	U	0.80	U	U
1,2-Dichlorobenzene	2.3	2.3	0.83	U	U	0.76	U	U	2.53	U	U	4.53	U	U	5.31	U	U	0.86	U	U
1,2,4-Trichlorobenzene	0.81	1.8	0.94	U	U	0.88	U	U	2.93	U	U	5.24	U	U	6.14	U	U	0.99	U	U
Hexachlorobenzene	0.38	2.3	0.84	U	U	0.77	U	U	2.57	U	U	4.59	U	U	5.45	U	U	0.88	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.81	U	U	0.75	U	U	2.50	U	U	4.47	U	U	5.24	U	U	0.85	U	U
Diethylphthalate	61	110	1.71	U	U	1.57	U	U	5.26	U	U	9.41	U	U	11.03	U	U	1.76	U	U
Di-n-Butylphthalate	220	1700	1.29	U	U	1.18	U	U	3.95	U	U	7.06	U	U	8.28	U	U	1.32	U	U
Butylbenzylphthalate	4.9	64	1.18	U	U	1.08	U	U	3.62	U	U	6.47	U	U	7.59	U	U	1.21	U	U
bis(2-Ethylhexyl)phthalate	47	78	6.65			1.08	U	U	3.62	U	U	6.47	U	U	7.59	U	U	1.54	J	J
Di-n-Octylphthalate	58	4500	0.87	U	U	0.81	U	U	2.70	U	U	4.76	U	U	5.66	U	U	0.91	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	13	U	U	14	J	J	13	U	U	13	U	U	13	U	U	14	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	12	U	U	13	U	U	13	U	U	12	U	U	13	U	U	130		
2,4-Dimethylphenol	29	29	14	U	U	15	U	U	14	U	U	14	U	U	14	U	U	15	U	U
Pentachlorophenol	360	690	46	U	U	47	U	U	47	U	U	46	U	U	47	U	U	47	U	U

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-28			A2-29			A2-30			A2-32			A2-33B			A2-34B		
Collection Date	SQS	CSL	08/04/2008	LQ	VQ	08/11/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—							20	U	U	20	U	U						
4,5-Dichloroguaiacol	—	—							20	U	U	20	U	U						
4,5,6-Trichloroguaiacol	—	—							20	U	U	20	U	U						
3,4,5-Trichloroguaiacol	—	—							20	U	U	20	U	U						
Tetrachloroguaiacol	—	—							20	U	U	20	U	U						
Pimaric Acid	—	—							98	U	U	98	U	U						
Isopimaric Acid	—	—							98	U	U	98	U	U						
Dehydroabietic Acid	—	—							98	U	U	98	U	U						
Abietic Acid	—	—							98	U	UJ	98	U	U						
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58	0.79	U	U	0.74	U	U	2.43	U	U	4.35	U	U	5.10	U	U	0.82	U	U
Hexachlorobutadiene	3.9	6.2	0.85	U	U	0.78	U	U	2.60	U	U	4.65	U	U	5.52	U	U	0.89	U	U
N-Nitrosodiphenylamine	28	130	0.91	U	U	0.84	U	U	2.80	U	U	5.00	U	U	5.86	U	U	0.94	U	U
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Aroclor-1232	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Aroclor-1242	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Aroclor-1016	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Aroclor-1248	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Aroclor-1254	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Aroclor-1260	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Aroclor-1262	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Aroclor-1268	—	—	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Total PCBs	12	65	0.69	U	U	0.65	U	U	2.14	U	U	3.76	U	U	4.48	U	U	0.71	U	U
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—										0.49	U	U						
4,4'-DDE	—	—										0.65	U	U						
4,4'-DDD	—	—										0.71	U	U						
gamma-BHC (Lindane)	—	—										0.28	U	U						
Heptachlor	—	—										0.23	U	U						
Aldrin	—	—										0.27	U	U						
Dieldrin	—	—										0.47	U	U						
gamma Chlordane	—	—										0.52	U	U						
alpha Chlordane	—	—										0.21	U	U						
oxy Chlordane	—	—										0.46	U	U						
cis-Nonachlor	—	—										0.58	U	U						
trans-Nonachlor	—	—										0.54	U	U						
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—							0.046	KJ	U	0.0466	U	U						
1,2,3,7,8-PECDD	—	—							0.12	U	U	0.121	U	U						
1,2,3,4,7,8-HXCDD	—	—							0.175	U	U	0.177	U	U						
1,2,3,6,7,8-HXCDD	—	—							0.47	J	J	0.168	U	U						
1,2,3,7,8,9-HXCDD	—	—							0.287	J	J	0.158	U	U						
1,2,3,4,6,7,8-HPCDD	—	—							9.33			0.68	J	J						
OCDD	—	—							66.3			3.76	J	J						
2,3,7,8-TCDF	—	—							0.224	J	J	0.0466	U	U						
1,2,3,7,8-PECDF	—	—							0.0874	U	U	0.0885	U	U						
2,3,4,7,8-PECDF	—	—							0.0883	U	U	0.0894	U	U						
1,2,3,4,7,8-HXCDF	—	—							0.153	J	J	0.0848	U	U						
1,2,3,6,7,8-HXCDF	—	—							0.11	KJ	U	0.112	U	U						
1,2,3,7,8,9-HXCDF	—	—							0.0856	U	U	0.0866	U	U						
2,3,4,6,7,8-HXCDF	—	—							0.11	U	U	0.112	U	U						
1,2,3,4,6,7,8-HPCDF	—	—							4	J	J	0.0922	KJ	U						
1,2,3,4,7,8,9-HPCDF	—	—							0.081	KJ	U	0.082	U	U						
OCDF	—	—							11.7			0.282	J	J						
TEQ 0 DL	—	—							0.267			0.00801								
TEQ 1/2 DL	—	—							0.389			0.155								

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-34			A2-36			A2-37B			A2-38B			A2-38			A2-38-D		
Collection Date	SQS	CSL	08/11/2008	LQ	VQ	08/04/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	0.189			1.52			0.6			1.26			0.117			0.116		
TVS (% DW)	—	—	0.92			5.56			1.87			3.79			0.95			0.88		
Total Solids (% DW)	—	—	76.2			57.5			70			59.1			80.2			74		
Preserved Total Solids (% DW)	—	—	76.9			54.1			69.5			47.4			74.4			73.9		
Ammonia (mg-N/kg DW)	—	—	0.03	U	U	10.7		J	1.39			6.97			0.03	U	U	0.03	U	U
Total Sulfides (mg/kg DW)	—	—	0.01	U	U	615			0.01	U	U	8.3			0.01	U	U	0.01	U	U
Grain Size																				
Phi Scale <-1	—	—	2.5			0.1			0.2			0.6				U	U		U	U
Phi Scale -1 to 0	—	—	16.8			0.4			0.2			1.2			0.4			0.4		
Phi Scale 0 to 1	—	—	59			1.1			0.6			1.1			29.4			29		
Phi Scale 1 to 2	—	—	19.4			3.9			19			2.9			65.8			65.7		
Phi Scale 2 to 3	—	—	0.4			24.5			51.1			13.7			3.6			3.4		
Phi Scale 3 to 4	—	—	0.1			24.2			17.4			28.9			0.2			0.2		
Phi Scale 4 to 5	—	—				14.5			4.6			21								
Phi Scale 5 to 6	—	—				11			1.9			11								
Phi Scale 6 to 7	—	—				7.6			1.5			7.1								
Phi Scale 7 to 8	—	—				4.5			1			4.1								
Phi Scale 8 to 9	—	—				3			0.6			2.6								
Phi Scale 9 to 10	—	—				2			0.7			1.9								
Phi Scale >10	—	—				3.2			1.2			4								
Fines (Silt/Clay)	—	—	1.8			45.9			11.5			51.7			0.5			1.2		
Metals in mg/kg DW																				
Arsenic	57	93	7			21			9			12			0.6	U	U			
Cadmium	5.1	6.7	0.03	U	U	0.4			0.03	U	U	0.03	U	U	0.02	U	U			
Chromium	—	—	27.4			44.2		J	33.5			49.6			24.6					
Copper	390	390	15.4			53.9			28.9			43			19.3					
Lead	450	530	3			10			5			7			3					
Mercury	0.41	0.59	0.006	U	U	0.008	U	UJ	0.005	U	UJ	0.007	U	UJ	0.005	U	UJ			
Silver	6.1	6.1	0.14	U	U	0.19	U	U	0.16	U	U	0.18	U	U	0.13	U	U			
Zinc	410	960	41			72			50			65			41					
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—																		
Tributyl Tin Ion	—	—																		
Butyl Tin Ion	—	—																		
LPAH in mg/kg TOC																				
Naphthalene	99	170	4.55	U	U	0.56	U	U	1.38	U	U	0.67	U	U	7.09	U	U			
Acenaphthylene	66	66	4.50	U	U	0.56	U	U	1.37	U	U	0.67	U	U	7.09	U	U			
Acenaphthene	16	57	4.29	U	U	0.53	U	U	1.30	U	U	0.63	U	U	6.75	U	U			
Fluorene	23	79	4.66	U	U	0.58	U	U	1.42	U	U	0.69	U	U	7.35	U	U			
Phenanthrene	100	480	4.39	U	U	0.66	J	J	1.33	U	U	4.92			6.92	U	U			
Anthracene	220	1200	4.02	U	U	0.50	U	U	1.23	U	U	0.60	U	U	6.32	U	U			
1-Methylnaphthalene	—	—	3.76	U	U	0.47	U	U	1.13	U	U	0.56	U	U	5.90	U	U			
2-Methylnaphthalene	38	64	4.29	U	U	0.53	U	U	1.30	U	U	0.63	U	U	6.75	U	U			
Total LPAH	960	5300	4.66	U	U	0.66	J	J	1.42	U	U	4.92			7.35	U	U			
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	4.13	U	U	1.12	J	J	1.25	U	U	4.76			6.50	U	U			
Pyrene	1000	1400	4.07	U	U	0.66	J	J	1.23	U	U	3.89			6.32	U	U			
Benzo(a)anthracene	110	270	3.07	U	U	0.38	U	U	0.93	U	U	0.45	U	U	4.87	U	U			
Chrysene	110	460	3.49	U	U	0.43	U	U	1.05	U	U	1.98			5.47	U	U			
Benzo(b)fluoranthene	—	—	4.97	U	U	0.62	U	U	1.52	U	U	1.75			7.78	U	U			
Benzo(k)fluoranthene	—	—	4.81	U	U	0.60	U	U	1.47	U	U	0.71	U	U	7.61	U	U			
Benzofluoranthenes	230	450	4.97	U	U	0.62	U	U	1.52	U	U	0.71	U	U	7.78	U	U			
Benzo(a)pyrene	99	210	4.29	U	U	0.53	U	U	1.30	U	U	0.63	U	U	6.67	U	U			
Indeno(1,2,3-cd)pyrene	34	88	4.50	U	U	0.56	U	U	1.37	U	U	0.66	U	U	7.09	U	U			
Dibenz(a,h)anthracene	12	33	4.44	U	U	0.55	U	U	1.35	U	U	0.66	U	U	7.01	U	U			
Benzo(g,h,i)perylene	31	78	3.54	U	U	0.43	U	U	1.07	U	U	0.52	U	U	5.56	U	U			
Retene	—	—																		
Total HPAH	960	5300	4.97	U	U	1.78	J	J	1.52	U	U	12.38			7.78	U	U			
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	3.86	U	U	0.48	U	U	1.18	U	U	0.57	U	U	6.07	U	U			
1,4-Dichlorobenzene	3.1	9	3.86	U	U	0.47	U	U	1.17	U	U	0.56	U	U	6.07	U	U			
1,2-Dichlorobenzene	2.3	2.3	4.13	U	U	0.51	U	U	1.25	U	U	0.60	U	U	6.50	U	U			
1,2,4-Trichlorobenzene	0.81	1.8	4.76	U	U	0.59	U	U	1.43	U	U	0.70	U	U	7.44	U	U			
Hexachlorobenzene	0.38	2.3	4.18	U	U	0.52	U	U	1.27	U	U	0.62	U	U	6.58	U	U			
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	4.07	U	U	0.50	U	U	1.23	U	U	0.60	U	U	6.32	U	U			
Diethylphthalate	61	110	8.47	U	U	1.05	U	U	2.67	U	U	1.27	U	U	13.68	U	U			
Di-n-Butylphthalate	220	1700	6.35	U	U	0.79	U	U	2.00	U	U	0.95	U	U	10.26	U	U			
Butylbenzylphthalate	4.9	64	5.82	U	U	0.72	U	U	1.83	U	U	0.87	U	U	9.40	U	U			
bis(2-Ethylhexyl)phthalate	47	78	5.82	U	U	0.72	U	U	1.67	U	U	2.38			9.40	U	U			
Di-n-Octylphthalate	58	4500	4.34	U	U	0.54	U	U	1.32	U	U	0.64	U	U	6.84	U	U			
Phenols in ug/kg DW																				
Phenol	420	1200	14	U	U	13	U	U	13	U	U	13	U	U	13	U	U			
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U			
4-Methylphenol	670	670	13	U	U	18	J	J	12	U	U	12	U	U	12	U	U			
2,4-Dimethylphenol	29	29	15	U	U	15	U	U	14	U	U	14	U	U	14	U	U			
Pentachlorophenol	360	690	47	U	U	47	U	U	45	U	U	46	U	U	46	U	U			

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-34			A2-36			A2-37B			A2-38B			A2-38			A2-38-D		
Collection Date	SQS	CSL	08/11/2008	LQ	VQ	08/04/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—				20	U	U												
4,5-Dichloroguaiacol	—	—				20	U	U												
4,5,6-Trichloroguaiacol	—	—				20	U	U												
3,4,5-Trichloroguaiacol	—	—				20	U	U												
Tetrachloroguaiacol	—	—				20	U	U												
Pimaric Acid	—	—				99	U	U												
Isopimaric Acid	—	—				99	U	U												
Dehydroabietic Acid	—	—				260														
Abietic Acid	—	—				99	U	U												
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U			
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U			
Dibenzofuran	15	58	3.97	U	U	0.49	U	U	1.20	U	U	0.58	U	U	6.24	U	U			
Hexachlorobutadiene	3.9	6.2	4.23	U	U	0.53	U	U	1.28	U	U	0.63	U	U	6.67	U	U			
N-Nitrosodiphenylamine	28	130	4.55	U	U	0.56	U	U	1.38	U	U	0.67	U	U	7.09	U	U			
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Aroclor-1232	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Aroclor-1242	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Aroclor-1016	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Aroclor-1248	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Aroclor-1254	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Aroclor-1260	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Aroclor-1262	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Aroclor-1268	—	—	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Total PCBs	12	65	3.39	U	U	0.43	U	U	1.08	U	U	0.52	U	U	5.56	U	U			
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—							0.14	U	U									
4,4'-DDE	—	—							0.18	U	U									
4,4'-DDD	—	—							0.20	U	U									
gamma-BHC (Lindane)	—	—							0.08	U	U									
Heptachlor	—	—							0.07	U	U									
Aldrin	—	—							0.08	U	U									
Dieldrin	—	—							0.14	U	U									
gamma Chlordane	—	—							0.15	U	U									
alpha Chlordane	—	—							0.06	U	U									
oxy Chlordane	—	—							0.13	U	U									
cis-Nonachlor	—	—							0.17	U	U									
trans-Nonachlor	—	—							0.16	U	U									
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—							0.0388	KJ	U									
1,2,3,7,8-PECDD	—	—							0.101	U	U									
1,2,3,4,7,8-HXCDD	—	—							0.147	U	U									
1,2,3,6,7,8-HXCDD	—	—							0.14	U	U									
1,2,3,7,8,9-HXCDD	—	—							0.222	J	J									
1,2,3,4,6,7,8-HPCDD	—	—							2.52	J	J									
OCDD	—	—							28											
2,3,7,8-TCDF	—	—							0.0388	U	U									
1,2,3,7,8-PECDF	—	—							0.0737	U	U									
2,3,4,7,8-PECDF	—	—							0.0745	U	U									
1,2,3,4,7,8-HXCDF	—	—							0.075	J	J									
1,2,3,6,7,8-HXCDF	—	—							0.0931	U	U									
1,2,3,7,8,9-HXCDF	—	—							0.0722	U	U									
2,3,4,6,7,8-HXCDF	—	—							0.0931	U	U									
1,2,3,4,6,7,8-HPCDF	—	—							0.282	J	J									
1,2,3,4,7,8,9-HPCDF	—	—							0.0683	U	U									
OCDF	—	—							0.712	J	J									
TEQ 0 DL	—	—							0.0663											
TEQ 1/2 DL	—	—							0.178											

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-38-T			A2-42			A2-43B			A2-46			A3-05B			A3-05D		
Collection Date	SQS	CSL	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	0.121			0.105			0.135			1.84			1.84			0.826		
TVS (% DW)	—	—	0.96			1.03			1			1.59			5.03			3.48		
Total Solids (% DW)	—	—	80.1			93.5			80			70.6			56.1			62.3		
Preserved Total Solids (% DW)	—	—	73.5			75.6			75.1			71.1			58.1			59.7		
Ammonia (mg-N/kg DW)	—	—	0.03	U	U	0.03	U	U	0.03	U	U	1.35			6.82			5.25		
Total Sulfides (mg/kg DW)	—	—	0.01	U	U	2.23			0.01	U	U	0.01	U	U	37.8			0.01	U	U
Grain Size																				
Phi Scale <-1	—	—		U	U	3.5				U	U	0.5			0.5			1.9		
Phi Scale -1 to 0	—	—	0.4			10.3			0.3			0.4			1			0.9		
Phi Scale 0 to 1	—	—	29			60.9			19.8			1.6			1.2			1.5		
Phi Scale 1 to 2	—	—	64.9			24.4			69.6			44.8			1.6			5.3		
Phi Scale 2 to 3	—	—	3.6			0.2			7.5			41.6			6.8			34.5		
Phi Scale 3 to 4	—	—	0.2			0.1			0.5			5.5			24.6			37.6		
Phi Scale 4 to 5	—	—										1.4			23.1			7.2		
Phi Scale 5 to 6	—	—										1.2			19			2.8		
Phi Scale 6 to 7	—	—										1			8.7			2.1		
Phi Scale 7 to 8	—	—										0.6			4			1.5		
Phi Scale 8 to 9	—	—										0.4			2.3			1		
Phi Scale 9 to 10	—	—										0.2			2			0.9		
Phi Scale >10	—	—										0.8			5.3			2.7		
Fines (Silt/Clay)	—	—	1.9			0.8			2.3			5.6			64.4			18.2		
Metals in mg/kg DW																				
Arsenic	57	93				6			7			8								
Cadmium	5.1	6.7				0.02	U	U	0.02	U	U	0.03	U	U						
Chromium	—	—				19.8			31.8			31								
Copper	390	390				19.8			21.3			19.2								
Lead	450	530				3			3			4								
Mercury	0.41	0.59				0.005	U	UJ	0.005	U	UJ	0.006	U	U						
Silver	6.1	6.1				0.12	U	U	0.13	U	U	0.15	U	U						
Zinc	410	960				39			43			51								
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—																		
Tributyl Tin Ion	—	—																		
Butyl Tin Ion	—	—																		
LPAH in mg/kg TOC																				
Naphthalene	99	170				7.90	U	U	6.22	U	U	0.47	U	U						
Acenaphthylene	66	66				7.90	U	U	6.15	U	U	0.47	U	U						
Acenaphthene	16	57				7.43	U	U	5.85	U	U	0.44	U	U						
Fluorene	23	79				8.10	U	U	6.37	U	U	0.48	U	U						
Phenanthrene	100	480				7.62	U	U	6.00	U	U	0.45	U	U						
Anthracene	220	1200				7.05	U	U	5.56	U	U	0.42	U	U						
1-Methylnaphthalene	—	—				6.57	U	U	5.11	U	U	0.39	U	U						
2-Methylnaphthalene	38	64				7.43	U	U	5.85	U	U	0.44	U	U						
Total LPAH	960	5300				8.10	U	U	6.37	U	U	0.48	U	U						
HPAH in mg/kg TOC																				
Fluoranthene	160	1200				7.24	U	U	5.63	U	U	0.43	U	U						
Pyrene	1000	1400				7.05	U	U	5.56	U	U	0.42	U	U						
Benzo(a)anthracene	110	270				5.33	U	U	4.22	U	U	0.32	U	U						
Chrysene	110	460				6.00	U	U	4.74	U	U	0.36	U	U						
Benzo(b)fluoranthene	—	—				8.67	U	U	6.81	U	U	0.51	U	U						
Benzo(k)fluoranthene	—	—				8.38	U	U	6.59	U	U	0.50	U	U						
Benzofluoranthenes	230	450				8.67	U	U	6.81	U	U	0.51	U	U						
Benzo(a)pyrene	99	210				7.43	U	U	5.85	U	U	0.44	U	U						
Indeno(1,2,3-cd)pyrene	34	88				7.81	U	U	6.15	U	U	0.46	U	U						
Dibenz(a,h)anthracene	12	33				7.81	U	U	6.15	U	U	0.46	U	U						
Benzo(g,h,i)perylene	31	78				6.19	U	U	4.81	U	U	0.36	U	U						
Retene	—	—																		
Total HPAH	960	5300				8.67	U	U	6.81	U	U	0.51	U	U						
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—				6.76	U	U	5.33	U	U	0.40	U	U						
1,4-Dichlorobenzene	3.1	9				6.67	U	U	5.26	U	U	0.40	U	U						
1,2-Dichlorobenzene	2.3	2.3				7.14	U	U	5.63	U	U	0.42	U	U						
1,2,4-Trichlorobenzene	0.81	1.8				8.29	U	U	6.52	U	U	0.49	U	U						
Hexachlorobenzene	0.38	2.3				7.33	U	U	5.70	U	U	0.43	U	U						
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53				7.05	U	U	5.56	U	U	0.42	U	U						
Diethylphthalate	61	110				15.24	U	U	11.85	U	U	1.09	J	J						
Di-n-Butylphthalate	220	1700				11.43	U	U	8.89	U	U	0.65	U	U						
Butylbenzylphthalate	4.9	64				10.48	U	U	8.15	U	U	0.60	U	U						
bis(2-Ethylhexyl)phthalate	47	78				9.52	U	U	8.15	U	U	0.60	U	U						
Di-n-Octylphthalate	58	4500				7.62	U	U	5.93	U	U	0.45	U	U						
Phenols in ug/kg DW																				
Phenol	420	1200				13	U	U	13	U	U	14	U	U						
2-Methylphenol	63	63				14	U	U	14	U	U	14	U	U						
4-Methylphenol	670	670				12	U	U	12	U	U	13	U	U						
2,4-Dimethylphenol	29	29				14	U	U	14	U	U	15	U	U						
Pentachlorophenol	360	690				45	U	U	46	U	U	47	U	U						

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A2-38-T			A2-42			A2-43B			A2-46			A3-05B			A3-05D		
Collection Date	SQS	CSL	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—																		
4,5-Dichloroguaiacol	—	—																		
4,5,6-Trichloroguaiacol	—	—																		
3,4,5-Trichloroguaiacol	—	—																		
Tetrachloroguaiacol	—	—																		
Pimaric Acid	—	—																		
Isopimaric Acid	—	—																		
Dehydroabietic Acid	—	—																		
Abietic Acid	—	—																		
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73				14	U	U	14	U	U	14		U						
Benzoic Acid (ug/kg DW)	650	650				110	U	U	110	U	U	110	U	U						
Dibenzofuran	15	58				6.86	U	U	5.41	U	U	0.41	U	U						
Hexachlorobutadiene	3.9	6.2				7.33	U	U	5.78	U	U	0.43	U	U						
N-Nitrosodiphenylamine	28	130				7.90	U	U	6.22	U	U	0.47	U	U						
PCBs in mg/kg TOC																				
Aroclor-1221	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Aroclor-1232	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Aroclor-1242	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Aroclor-1016	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Aroclor-1248	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Aroclor-1254	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Aroclor-1260	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Aroclor-1262	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Aroclor-1268	—	—				6.10	U	U	4.74	U	U	0.36	U	U						
Total PCBs	12	65				6.10	U	U	4.74	U	U	0.36	U	U						
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—				0.82	U	U												
4,4'-DDE	—	—				1.05	U	U												
4,4'-DDD	—	—				1.14	U	U												
gamma-BHC (Lindane)	—	—				0.46	U	U												
Heptachlor	—	—				0.37	U	U												
Aldrin	—	—				0.44	U	U												
Dieldrin	—	—				0.78	U	U												
gamma Chlordane	—	—				0.86	U	U												
alpha Chlordane	—	—				0.34	U	U												
oxy Chlordane	—	—				0.75	U	U												
cis-Nonachlor	—	—				0.95	U	U												
trans-Nonachlor	—	—				0.88	U	U												
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—																		
1,2,3,7,8-PECDD	—	—																		
1,2,3,4,7,8-HXCDD	—	—																		
1,2,3,6,7,8-HXCDD	—	—																		
1,2,3,7,8,9-HXCDD	—	—																		
1,2,3,4,6,7,8-HPCDD	—	—																		
OCDD	—	—																		
2,3,7,8-TCDF	—	—																		
1,2,3,7,8-PECDF	—	—																		
2,3,4,7,8-PECDF	—	—																		
1,2,3,4,7,8-HXCDF	—	—																		
1,2,3,6,7,8-HXCDF	—	—																		
1,2,3,7,8,9-HXCDF	—	—																		
2,3,4,6,7,8-HXCDF	—	—																		
1,2,3,4,6,7,8-HPCDF	—	—																		
1,2,3,4,7,8,9-HPCDF	—	—																		
OCDF	—	—																		
TEQ 0 DL	—	—																		
TEQ 1/2 DL	—	—																		

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A3-05			A3-06B			A3-07B			A3-09			A3-11			A3-13		
Collection Date	SQS	CSL	08/05/2008	LQ	VQ	10/08/2008	LQ	VQ	08/05/2008	LQ	VQ	08/07/2008	LQ	VQ	08/07/2008	LQ	VQ	08/07/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	0.309			0.907			1.17			0.212			0.126			0.213		
TVS (% DW)	—	—	1.81			3.93			4.77			1.27			1.17			1.05		
Total Solids (% DW)	—	—	71.3			63.1			61			70.5			71.5			77		
Preserved Total Solids (% DW)	—	—	71.1						53.7			65.1			72.2			75.2		
Ammonia (mg-N/kg DW)	—	—	2.13			4.96			9.44			0.03	U	U	0.03	U	U	0.03	U	U
Total Sulfides (mg/kg DW)	—	—	0.01	U	U	8.8	U		46.7			0.01	U	U	0.01	U	U	0.01	U	U
Grain Size																				
Phi Scale <-1	—	—	0.2			0.1	U		0.2				U	U		U	U	1.8		
Phi Scale -1 to 0	—	—	1.2			0.8			0.5			0.2				U	U	6		
Phi Scale 0 to 1	—	—	7.7			0.7			1.1			1.2			0.2			20.6		
Phi Scale 1 to 2	—	—	25.1			1.2			3.4			39.5			24.4			57		
Phi Scale 2 to 3	—	—	48.5			8.6			16.1			56.4			73.3			11.7		
Phi Scale 3 to 4	—	—	9.4			37.2			32.5			1.2			1.9			1.1		
Phi Scale 4 to 5	—	—	1.6			21.5			16.5											
Phi Scale 5 to 6	—	—	1.5			11			7.9											
Phi Scale 6 to 7	—	—	1.2			6.5			6.5											
Phi Scale 7 to 8	—	—	1			3.6			4.3											
Phi Scale 8 to 9	—	—	0.5			2.6			2.8											
Phi Scale 9 to 10	—	—	0.6			2.4			2.3											
Phi Scale >10	—	—	1.5			3.9			5.7											
Fines (Silt/Clay)	—	—	8			51.4			46.1			1.6			0.2			1.9		
Metals in mg/kg DW																				
Arsenic	57	93	0.7	U	U	10			13			7			8			7		
Cadmium	5.1	6.7	0.03	U	U	0.032	U		0.3			0.03	U	U	0.03	U	U	0.02	U	U
Chromium	—	—	33.9			45.4			50.2			27.7			32.6			29.1		
Copper	390	390	20.7			39			49.4			20.3			22.7			18.8		
Lead	450	530	4			7			8			5			4			3		
Mercury	0.41	0.59	0.007	U	UJ	0.07			0.008	U	UJ	0.005	U	U	0.005	U	U	0.006	U	U
Silver	6.1	6.1	0.16	U	U	0.174	U		0.17	U	U	0.15	U	U	0.15	U	U	0.14	U	U
Zinc	410	960	50			67			73			44			47			42		
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—	5.4	U	U				5.2	U	U							5.3	U	U
Tributyl Tin Ion	—	—	3.6	U	U				3.5	U	U							3.5	U	U
Butyl Tin Ion	—	—	3.8	U	U				3.6	U	U							3.6	U	U
LPAH in mg/kg TOC																				
Naphthalene	99	170	2.75	U	U	0.94	U		0.71	U	U	3.92	U	U	6.59	U	U	3.90	U	U
Acenaphthylene	66	66	2.75	U	U	0.94	U		0.71	U	U	3.92	U	U	6.59	U	U	3.90	U	U
Acenaphthene	16	57	2.62	U	U	0.89	U		0.68	U	U	3.68	U	U	6.19	U	U	3.71	U	U
Fluorene	23	79	2.85	U	U	0.97	U		0.74	U	U	4.01	U	U	6.75	U	U	4.04	U	U
Phenanthrene	100	480	2.65	U	U	0.92	U		2.31			3.77	U	U	6.35	U	U	3.76	U	U
Anthracene	220	1200	2.46	U	U	0.84	U		0.63	U	U	3.49	U	U	5.87	U	U	3.47	U	U
1-Methylnaphthalene	—	—	2.30	U	U	0.78	U		0.59	U	U	3.25	U	U	5.48	U	U	3.24	U	U
2-Methylnaphthalene	38	64	2.59	U	U	0.89	U		0.68	U	U	3.68	U	U	6.19	U	U	3.71	U	U
Total LPAH	960	5300	2.85	U	U	0.97	U		2.31			4.01	U	U	6.75	U	U	4.04	U	U
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	2.52	U	U	0.86	U		5.04			3.58	U	U	6.03	U	U	3.57	U	U
Pyrene	1000	1400	2.46	U	U	0.84	U		4.10			3.49	U	U	5.87	U	U	3.47	U	U
Benzo(a)anthracene	110	270	1.88	U	U	0.64	U		0.49	U	U	2.64	U	U	4.44	U	U	2.68	U	U
Chrysene	110	460	2.10	U	U	0.72	U		2.14			2.97	U	U	5.00	U	U	3.00	U	U
Benzo(b)fluoranthene	—	—	3.01	U	U	1.04	U		0.78	U	U	4.29	U	U	7.22	U	U	4.27	U	U
Benzo(k)fluoranthene	—	—	2.94	U	U	1.00	U		0.76	U	U	4.15	U	U	6.98	U	U	4.18	U	U
Benzofluoranthenes	230	450	3.01	U	U	1.04	U		0.78	U	U	4.29	U	U	7.22	U	U	4.27	U	U
Benzo(a)pyrene	99	210	2.59	U	U	0.88	U		0.67	U	U	3.68	U	U	6.19	U	U	3.66	U	U
Indeno(1,2,3-cd)pyrene	34	88	2.72	U	U	0.94	U		0.70	U	U	3.87	U	U	6.51	U	U	3.85	U	U
Dibenz(a,h)anthracene	12	33	2.72	U	U	0.93	U		0.70	U	U	3.87	U	U	6.51	U	U	3.85	U	U
Benzo(g,h,i)perylene	31	78	2.14	U	U	0.73	U		0.56	U	U	3.02	U	U	5.16	U	U	3.05	U	U
Retene	—	—																		
Total HPAH	960	5300	3.01	U	U	1.04	U		11.28	U		4.29	U	U	7.22	U	U	4.27	U	U
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	2.36	U	U	0.80	U		0.61	U	U	3.35	U	U	5.63	U	U	3.33	U	U
1,4-Dichlorobenzene	3.1	9	2.33	U	U	0.79	U		0.61	U	U	3.30	U	U	5.56	U	U	3.33	U	U
1,2-Dichlorobenzene	2.3	2.3	2.49	U	U	0.85	U		0.65	U	U	3.54	U	U	5.95	U	U	3.57	U	U
1,2,4-Trichlorobenzene	0.81	1.8	2.88	U	U	0.98	U		0.74	U	U	4.10	U	U	6.90	U	U	4.08	U	U
Hexachlorobenzene	0.38	2.3	2.56	U	U	0.87	U		0.66	U	U	3.58	U	U	6.11	U	U	3.62	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	2.46	U	U	0.84	U		0.63	U	U	3.49	U	U	5.87	U	U	3.47	U	U
Diethylphthalate	61	110	5.18	U	U	1.76	U		1.37	U	U	7.55	U	U	12.70	U	U	7.51	U	U
Di-n-Butylphthalate	220	1700	3.88	U	U	1.32	U		1.03	U	U	5.66	U	U	9.52	U	U	5.63	U	U
Butylbenzylphthalate	4.9	64	3.56	U	U	1.21	U		0.94	U	U	5.19	U	U	8.73	U	U	5.16	U	U
bis(2-Ethylhexyl)phthalate	47	78	3.56	U	U	1.21	U		1.71			4.72	U	U	7.94	U	U	5.16	U	U
Di-n-Octylphthalate	58	4500	2.65	U	U	0.90	U		0.68	U	U	3.77	U	U	6.35	U	U	3.76	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	13	U	U	37			13	U	U	13	U	U	13	U	U	13	U	U
2-Methylphenol	63	63	14	U	U	14	U		14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	13	U	U	13	U		12	U	U	12	U	U	12	U	U	12	U	U
2,4-Dimethylphenol	29	29	15	U	U	15	U		14	U	U	14	U	U	14	U	U	14	U	U
Pentachlorophenol	360	690	47	U	U	47	U		46	U	U	45	U	U	45	U	U	46	U	U

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A3-05			A3-06B			A3-07B			A3-09			A3-11			A3-13		
Collection Date	SQS	CSL	08/05/2008	LQ	VQ	10/08/2008	LQ	VQ	08/05/2008	LQ	VQ	08/07/2008	LQ	VQ	08/07/2008	LQ	VQ	08/07/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—	20	U	U															
4,5-Dichloroguaiacol	—	—	20	U	U															
4,5,6-Trichloroguaiacol	—	—	20	U	U															
3,4,5-Trichloroguaiacol	—	—	20	U	U															
Tetrachloroguaiacol	—	—	20	U	U															
Pimaric Acid	—	—	98	U	U															
Isopimaric Acid	—	—	98	U	U															
Dehydroabietic Acid	—	—	120																	
Abietic Acid	—	—	98	U	UJ															
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	UJ	UJ	14	U	U	14	U	U	14	U	U	14	U	U
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U		110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58	2.39	U	U	0.82	U		0.62	U	U	3.40	U	U	5.71	U	U	3.38	U	U
Hexachlorobutadiene	3.9	6.2	2.59	U	U	0.88	U		0.67	U	U	3.63	U	U	6.11	U	U	3.66	U	U
N-Nitrosodiphenylamine	28	130	2.75	U	U	0.94	U		0.71	U	U	3.92	U	U	6.59	U	U	3.90	U	U
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Aroclor-1232	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Aroclor-1242	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Aroclor-1016	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Aroclor-1248	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Aroclor-1254	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Aroclor-1260	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Aroclor-1262	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Aroclor-1268	—	—	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Total PCBs	12	65	2.10	U	U	0.73	U		0.56	U	U	3.07	U	U	5.16	U	U	3.00	U	U
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—										0.41	U	U	0.68	U	U			
4,4'-DDE	—	—										0.52	U	U	0.87	U	U			
4,4'-DDD	—	—										0.57	U	U	0.95	U	U			
gamma-BHC (Lindane)	—	—										0.23	U	U	0.38	U	U			
Heptachlor	—	—										0.18	U	U	0.31	U	U			
Aldrin	—	—										0.22	U	U	0.37	U	U			
Dieldrin	—	—										0.39	U	U	0.65	U	U			
gamma Chlordane	—	—										0.42	U	U	0.71	U	U			
alpha Chlordane	—	—										0.17	U	U	0.29	U	U			
oxy Chlordane	—	—										0.37	U	U	0.63	U	U			
cis-Nonachlor	—	—										0.47	U	U	0.79	U	U			
trans-Nonachlor	—	—										0.43	U	U	0.73	U	U			
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—	0.0303	KJ	U															
1,2,3,7,8-PECDD	—	—	0.0787	U	U															
1,2,3,4,7,8-HXCDD	—	—	0.115	U	U															
1,2,3,6,7,8-HXCDD	—	—	0.174	J	J															
1,2,3,7,8,9-HXCDD	—	—	0.2	J	J															
1,2,3,4,6,7,8-HPCDD	—	—	2.87	J	J															
OCDD	—	—	25.6																	
2,3,7,8-TCDF	—	—	0.0303	KJ	U															
1,2,3,7,8-PECDF	—	—	0.0575	U	U															
2,3,4,7,8-PECDF	—	—	0.06	J	J															
1,2,3,4,7,8-HXCDF	—	—	0.0551	KJ	U															
1,2,3,6,7,8-HXCDF	—	—	0.0727	U	U															
1,2,3,7,8,9-HXCDF	—	—	0.0563	U	U															
2,3,4,6,7,8-HXCDF	—	—	0.0727	U	U															
1,2,3,4,6,7,8-HPCDF	—	—	0.428	J	J															
1,2,3,4,7,8,9-HPCDF	—	—	0.0533	U	U															
OCDF	—	—	1.11	J	J															
TEQ 0 DL	—	—	0.0964																	
TEQ 1/2 DL	—	—	0.172																	

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A4-04			A4-04-D			A4-05			A4-05-D			A4-05-T			A4-07		
Collection Date	SQS	CSL	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	0.27						0.203									0.792		
TVS (% DW)	—	—	1.23						1.17									2.98		
Total Solids (% DW)	—	—	76						76.3									66.6		
Preserved Total Solids (% DW)	—	—	77.6						75.8									61.5		
Ammonia (mg-N/kg DW)	—	—	0.55						0.43									4.24		
Total Sulfides (mg/kg DW)	—	—	0.01	U	U				0.01	U	U							0.01	U	U
Grain Size																				
Phi Scale <-1	—	—	0.4						1.1										U	U
Phi Scale -1 to 0	—	—	5.8						9.1									0.1		
Phi Scale 0 to 1	—	—	31.6						30.4									0.4		
Phi Scale 1 to 2	—	—	46.8						49.2									1.8		
Phi Scale 2 to 3	—	—	11.3						8									26.6		
Phi Scale 3 to 4	—	—	1.3						0.2									45.2		
Phi Scale 4 to 5	—	—																9.5		
Phi Scale 5 to 6	—	—																4.4		
Phi Scale 6 to 7	—	—																3.1		
Phi Scale 7 to 8	—	—																2.1		
Phi Scale 8 to 9	—	—																1.4		
Phi Scale 9 to 10	—	—																1.5		
Phi Scale >10	—	—																3.8		
Fines (Silt/Clay)	—	—	2.9						2									25.8		
Metals in mg/kg DW																				
Arsenic	57	93	8						9			8			9			10		
Cadmium	5.1	6.7	0.03	U	U				0.02	U	U	0.02	U	U	0.02	U	U	0.03	U	U
Chromium	—	—	34.6						27			27.8			26.5			41.5		
Copper	390	390	17.3						17.2			16.1			17.6			27		
Lead	450	530	4						4			3			4			6		
Mercury	0.41	0.59	0.005	U	UJ				0.006	U	UJ	0.005	U	UJ	0.006	U	UJ	0.006	U	UJ
Silver	6.1	6.1	0.14	U	U				0.14	U	U	0.13	U	U	0.13	U	U	0.17	U	U
Zinc	410	960	48						43			40			41			59		
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—																5.5	U	U
Tributyl Tin Ion	—	—																3.7	U	U
Butyl Tin Ion	—	—																3.8	U	U
LPAH in mg/kg TOC																				
Naphthalene	99	170	3.11	U	U		U	U	4.14	U	U							1.06	U	U
Acenaphthylene	66	66	3.11	U	U		U	U	4.14	U	U							1.06	U	U
Acenaphthene	16	57	2.96	U	U		U	U	3.94	U	U							1.01	U	U
Fluorene	23	79	3.22	U	U		U	U	4.29	U	U							1.10	U	U
Phenanthrene	100	480	3.00	U	U		U	U	4.04	U	U							2.90		
Anthracene	220	1200	2.78	U	U		U	U	3.69	U	U							0.95	U	U
1-Methylnaphthalene	—	—	2.59	U	U		U	U	3.45	U	U							0.88	U	U
2-Methylnaphthalene	38	64	2.96	U	U		U	U	3.94	U	U							1.01	U	U
Total LPAH	960	5300	3.22	U	U		U	U	4.29	U	U							2.90		
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	2.85	U	U		U	U	3.79	U	U							5.68		
Pyrene	1000	1400	2.78	U	U		U	U	3.69	U	U							4.04		
Benzo(a)anthracene	110	270	2.11	U	U		U	U	2.86	U	U							0.73	U	U
Chrysene	110	460	2.37	U	U		U	U	3.20	U	U							3.03		
Benzo(b)fluoranthene	—	—	3.41	U	U		U	U	4.53	U	U							1.17	U	U
Benzo(k)fluoranthene	—	—	3.33	U	U		U	U	4.43	U	U							1.14	U	U
Benzofluoranthenes	230	450	3.41	U	U		U	U	4.53	U	U							1.17	U	U
Benzo(a)pyrene	99	210	2.93	U	U		U	U	3.89	U	U							1.00	U	U
Indeno(1,2,3-cd)pyrene	34	88	3.07	U	U		U	U	4.14	U	U							1.06	U	U
Dibenz(a,h)anthracene	12	33	3.07	U	U		U	U	4.09	U	U							1.05	U	U
Benzo(g,h,i)perylene	31	78	2.44	U	U		U	U	3.25	U	U							0.83	U	U
Retene	—	—																		
Total HPAH	960	5300	3.41	U	U		U	U	4.53	U	U							12.75		
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	2.67	U	U		U	U	3.55	U	U							0.91	U	U
1,4-Dichlorobenzene	3.1	9	2.63	U	U		U	U	3.55	U	U							0.91	U	U
1,2-Dichlorobenzene	2.3	2.3	2.81	U	U		U	U	3.79	U	U							0.97	U	U
1,2,4-Trichlorobenzene	0.81	1.8	3.26	U	U		U	U	4.33	U	U							1.11	U	U
Hexachlorobenzene	0.38	2.3	2.89	U	U		U	U	3.84	U	U							0.98	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	2.78	U	U		U	U	3.69	U	U							0.96	U	U
Diethylphthalate	61	110	5.93	U	U		U	U	7.88	U	U							2.02	U	U
Di-n-Butylphthalate	220	1700	4.44	U	U		U	U	5.91	U	U							1.52	U	U
Butylbenzylphthalate	4.9	64	4.07	U	U		U	U	5.42	U	U							1.39	U	U
bis(2-Ethylhexyl)phthalate	47	78	4.07	U	U		U	U	5.42	U	U							1.39	U	U
Di-n-Octylphthalate	58	4500	3.00	U	U		U	U	3.99	U	U							1.02	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	13	U	U	13	U	U	13	U	U							13	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U							14	U	U
4-Methylphenol	670	670	12	U	U	12	U	U	12	U	U							12	U	U
2,4-Dimethylphenol	29	29	14	U	U	14	U	U	14	U	U							14	U	U
Pentachlorophenol	360	690	46	U	U	46	U	U	46	U	U							46	U	U

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A4-04			A4-04-D			A4-05			A4-05-D			A4-05-T			A4-07		
Collection Date	SQS	CSL	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—																20	U	U
4,5-Dichloroguaiacol	—	—																20	U	U
4,5,6-Trichloroguaiacol	—	—																20	U	U
3,4,5-Trichloroguaiacol	—	—																20	U	U
Tetrachloroguaiacol	—	—																20	U	U
Pimaric Acid	—	—																98	U	U
Isopimaric Acid	—	—																120		
Dehydroabietic Acid	—	—																210		
Abietic Acid	—	—																300		J
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	U	U	14	U	U							14	U	U
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U	110	U	U							110	U	U
Dibenzofuran	15	58	2.70	U	U		U	U	3.60	U	U							0.93	U	U
Hexachlorobutadiene	3.9	6.2	2.93	U	U		U	U	3.89	U	U							1.00	U	U
N-Nitrosodiphenylamine	28	130	3.11	U	U		U	U	4.14	U	U							1.06	U	U
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Aroclor-1232	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Aroclor-1242	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Aroclor-1016	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Aroclor-1248	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Aroclor-1254	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Aroclor-1260	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Aroclor-1262	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Aroclor-1268	—	—	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Total PCBs	12	65	2.41	U	U		U	U	3.20	U	U							0.82	U	U
Pesticides in mg/kg TOC																				
4,4'-DDT	—	—																0.11	U	U
4,4'-DDE	—	—																0.14	U	U
4,4'-DDD	—	—																0.15	U	U
gamma-BHC (Lindane)	—	—																0.06	U	U
Heptachlor	—	—																0.05	U	U
Aldrin	—	—																0.06	U	U
Dieldrin	—	—																0.10	U	U
gamma Chlordane	—	—																0.11	U	U
alpha Chlordane	—	—																0.05	U	U
oxy Chlordane	—	—																0.10	U	U
cis-Nonachlor	—	—																0.13	U	U
trans-Nonachlor	—	—																0.12	U	U
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—																0.0473	KJ	U
1,2,3,7,8-PECDD	—	—																0.228	J	J
1,2,3,4,7,8-HXCDD	—	—																0.257	J	J
1,2,3,6,7,8-HXCDD	—	—																0.971	J	J
1,2,3,7,8,9-HXCDD	—	—																0.891	J	J
1,2,3,4,6,7,8-HPCDD	—	—																17.7		
OCDD	—	—																157		
2,3,7,8-TCDF	—	—																0.5	J	J
1,2,3,7,8-PECDF	—	—																0.09	J	J
2,3,4,7,8-PECDF	—	—																0.0908	KJ	U
1,2,3,4,7,8-HXCDF	—	—																0.326	J	J
1,2,3,6,7,8-HXCDF	—	—																0.173	J	J
1,2,3,7,8,9-HXCDF	—	—																0.088	U	U
2,3,4,6,7,8-HXCDF	—	—																0.114	KJ	U
1,2,3,4,6,7,8-HPCDF	—	—																2.79	J	J
1,2,3,4,7,8,9-HPCDF	—	—																0.213	J	J
OCDF	—	—																8.49	J	J
TEQ 0 DL	—	—																0.799		
TEQ 1/2 DL	—	—																0.847		

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A4-08B			A4-09			CR-20/40-S			CR-22S-S			CR-23-S			SB-REF-48	
Collection Date	SQS	CSL	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ	10/09/2008	LQ	VQ	10/09/2008	LQ	VQ	10/09/2008	LQ	VQ	11/25/2008	LQ
Conventionals																			
Total Organic Carbon (% DW)	—	—	0.739			1.09			0.596			0.31			0.573			1.45	
TVS (% DW)	—	—	5.37			4.88			2.55			1.14			2.26			2.93	
Total Solids (% DW)	—	—	51			54			63			71.7			65.9			60.7	
Preserved Total Solids (% DW)	—	—	56			54.8												57.7	
Ammonia (mg-N/kg DW)	—	—	10			5.62			9.49			10.2			7.72			4.39	
Total Sulfides (mg/kg DW)	—	—	61.6			48			67			6.8	U		91			121	
Grain Size																			
Phi Scale <-1	—	—	1			0.2			0.1	U		0.1			0.2			0.2	
Phi Scale -1 to 0	—	—	1.1			0.5			0.1			0.4			0.3			1	
Phi Scale 0 to 1	—	—	1.2			0.7			0.4			5.2			0.4			4.9	
Phi Scale 1 to 2	—	—	1.8			1.3			0.8			15.2			1.2			27	
Phi Scale 2 to 3	—	—	4.9			4.1			2.9			41.6			7.2			29	
Phi Scale 3 to 4	—	—	34.7			30.2			22.7			26.6			40.3			12.8	
Phi Scale 4 to 5	—	—	22.6			23			39.1			4.9			26.3			5.3	
Phi Scale 5 to 6	—	—	13.1			14.7			18.6			1.9			11.2			3.3	
Phi Scale 6 to 7	—	—	5.9			8.9			5.9			1			4.1			3.4	
Phi Scale 7 to 8	—	—	3.9			4.8			2.2			0.6			1.9			2.7	
Phi Scale 8 to 9	—	—	3.1			3.1			1.4			0.6			1.5			2.6	
Phi Scale 9 to 10	—	—	1.9			2.9			1.4			0.7			1.8			2.5	
Phi Scale >10	—	—	4.8			5.5			4.6			1.4			3.8			5.4	
Fines (Silt/Clay)	—	—	55.2			62.9			73.2			11.1			50.4			25.2	
Metals in mg/kg DW																			
Arsenic	57	93	10			13													
Cadmium	5.1	6.7	0.04	U	U	0.03	U	U											
Chromium	—	—	46			43.9													
Copper	390	390	40.6			39.1													
Lead	450	530	9			8													
Mercury	0.41	0.59	0.009	U	U	0.07													
Silver	6.1	6.1	0.21	U	U	0.19	U	U											
Zinc	410	960	74			69													
Butyltins ug/kg DW																			
Dibutyl Tin Ion	—	—																	
Tributyl Tin Ion	—	—																	
Butyl Tin Ion	—	—																	
LPAH in mg/kg TOC																			
Naphthalene	99	170	1.15	U	U	0.79	U	U											
Acenaphthylene	66	66	1.15	U	U	0.79	U	U											
Acenaphthene	16	57	1.10	U	U	0.75	U	U											
Fluorene	23	79	1.19	U	U	0.82	U	U											
Phenanthrene	100	480	2.30	J	J	0.77	U	U											
Anthracene	220	1200	1.03	U	U	0.71	U	U											
1-Methylnaphthalene	—	—	0.96	U	U	0.66	U	U											
2-Methylnaphthalene	38	64	1.10	U	U	0.75	U	U											
Total LPAH	960	5300	2.30	J	J	0.82	U	U											
HPAH in mg/kg TOC																			
Fluoranthene	160	1200	7.04			1.10	J	J											
Pyrene	1000	1400	5.41			0.92	J	J											
Benzo(a)anthracene	110	270	2.30	J	J	0.54	U	U											
Chrysene	110	460	5.28			0.61	U	U											
Benzo(b)fluoranthene	—	—	2.03	J	J	0.87	U	U											
Benzo(k)fluoranthene	—	—	2.57	J	J	0.84	U	U											
Benzofluoranthenes	230	450	2.57	J	J	0.87	U	U											
Benzo(a)pyrene	99	210	1.35	J	J	0.74	U	U											
Indeno(1,2,3-cd)pyrene	34	88	1.14	U	U	0.79	U	U											
Dibenz(a,h)anthracene	12	33	1.14	U	U	0.78	U	U											
Benzo(g,h,i)perylene	31	78	0.89	U	U	0.61	U	U											
Retene	—	—																	
Total HPAH	960	5300	17.73	J		2.02	J												
Chlorinated Aromatics in mg/kg TOC																			
1,3-Dichlorobenzene	—	—	0.99	U	U	0.68	U	U											
1,4-Dichlorobenzene	3.1	9	0.97	U	U	0.67	U	U											
1,2-Dichlorobenzene	2.3	2.3	1.04	U	U	0.72	U	U											
1,2,4-Trichlorobenzene	0.81	1.8	1.20	U	U	0.83	U	U											
Hexachlorobenzene	0.38	2.3	1.07	U	U	0.73	U	U											
Phthalate Esters in mg/kg TOC																			
Dimethylphthalate	53	53	1.03	U	U	0.71	U	U											
Diethylphthalate	61	110	2.17	U	U	1.47	U	U											
Di-n-Butylphthalate	220	1700	1.62	U	U	1.10	U	U											
Butylbenzylphthalate	4.9	64	1.49	U	U	1.01	U	U											
bis(2-Ethylhexyl)phthalate	47	78	2.71			1.10	J	J											
Di-n-Octylphthalate	58	4500	1.11	U	U	0.76	U	U											
Phenols in ug/kg DW																			
Phenol	420	1200	13	U	U	14	U	U											
2-Methylphenol	63	63	14	U	U	14	U	U											
4-Methylphenol	670	670	13	U	U	13	U	U											
2,4-Dimethylphenol	29	29	15	U	U	15	U	U											
Pentachlorophenol	360	690	47	U	U	47	U	U											

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	A4-08B			A4-09			CR-20/40-S			CR-22S-S			CR-23-S			SB-REF-48	
Collection Date	SQS	CSL	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ	10/09/2008	LQ	VQ	10/09/2008	LQ	VQ	10/09/2008	LQ	VQ	11/25/2008	LQ
Guaiacols and Resins in ug/kg DW																			
Guaiacol	—	—																	
4,5-Dichloroguaiacol	—	—																	
4,5,6-Trichloroguaiacol	—	—																	
3,4,5-Trichloroguaiacol	—	—																	
Tetrachloroguaiacol	—	—																	
Pimaric Acid	—	—																	
Isopimaric Acid	—	—																	
Dehydroabietic Acid	—	—																	
Abietic Acid	—	—																	
Miscellaneous Extractables in mg/kg TOC																			
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	U	U											
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U											
Dibenzofuran	15	58	1.00	U	U	0.69	U	U											
Hexachlorobutadiene	3.9	6.2	1.08	U	U	0.74	U	U											
N-Nitrosodiphenylamine	28	130	1.15	U	U	0.79	U	U											
PCBs in mg/kg TOC																			
Aroclor-1221	—	—	0.88	U	U	0.61	U	U											
Aroclor-1232	—	—	0.88	U	U	0.61	U	U											
Aroclor-1242	—	—	0.88	U	U	0.61	U	U											
Aroclor-1016	—	—	0.88	U	U	0.61	U	U											
Aroclor-1248	—	—	0.88	U	U	0.61	U	U											
Aroclor-1254	—	—	0.88	U	U	0.61	U	U											
Aroclor-1260	—	—	0.88	U	U	0.61	U	U											
Aroclor-1262	—	—	0.88	U	U	0.61	U	U											
Aroclor-1268	—	—	0.88	U	U	0.61	U	U											
Total PCBs	12	65	0.88	U	U	0.61	U	U											
Pesticides in mg/kg TOC																			
4,4'-DDT	—	—																	
4,4'-DDE	—	—																	
4,4'-DDD	—	—																	
gamma-BHC (Lindane)	—	—																	
Heptachlor	—	—																	
Aldrin	—	—																	
Dieldrin	—	—																	
gamma Chlordane	—	—																	
alpha Chlordane	—	—																	
oxy Chlordane	—	—																	
cis-Nonachlor	—	—																	
trans-Nonachlor	—	—																	
Dioxin/Furan pg TEQ/g DW																			
2,3,7,8-TCDD	—	—																	
1,2,3,7,8-PECDD	—	—																	
1,2,3,4,7,8-HXCDD	—	—																	
1,2,3,6,7,8-HXCDD	—	—																	
1,2,3,7,8,9-HXCDD	—	—																	
1,2,3,4,6,7,8-HPCDD	—	—																	
OCDD	—	—																	
2,3,7,8-TCDF	—	—																	
1,2,3,7,8-PECDF	—	—																	
2,3,4,7,8-PECDF	—	—																	
1,2,3,4,7,8-HXCDF	—	—																	
1,2,3,6,7,8-HXCDF	—	—																	
1,2,3,7,8,9-HXCDF	—	—																	
2,3,4,6,7,8-HXCDF	—	—																	
1,2,3,4,6,7,8-HPCDF	—	—																	
1,2,3,4,7,8,9-HPCDF	—	—																	
OCDF	—	—																	
TEQ 0 DL	—	—																	
TEQ 1/2 DL	—	—																	

* Collected on 10/6/08

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID	WA	WA	SB-REF-76		CR-20/24-65		CR-23-49	
Collection Date	SQS	CSL	11/25/2008	LQ	11/25/2008	LQ	11/25/2008	LQ
Conventionals								
Total Organic Carbon (% DW)	—	—	3.25		0.635		0.535	
TVS (% DW)	—	—	11.4		2.52		2.32	
Total Solids (% DW)	—	—	9.1		62.9		65.5	
Preserved Total Solids (% DW)	—	—	16.8		65		65.7	
Ammonia (mg-N/kg DW)	—	—	132		21		8.84	
Total Sulfides (mg/kg DW)	—	—	1010		123		193	
Grain Size								
Phi Scale <-1	—	—	0.1	U	0.1	U	0.1	U
Phi Scale -1 to 0	—	—	0.3		0.1		0.2	
Phi Scale 0 to 1	—	—	1		0.3		0.6	
Phi Scale 1 to 2	—	—	1.7		0.8		1.6	
Phi Scale 2 to 3	—	—	3.3		2.2		7	
Phi Scale 3 to 4	—	—	5.1		24.8		38.1	
Phi Scale 4 to 5	—	—	5.1		40.4		28.6	
Phi Scale 5 to 6	—	—	13		18.1		10.6	
Phi Scale 6 to 7	—	—	22.7		5.2		4.4	
Phi Scale 7 to 8	—	—	10.8		1.9		1.6	
Phi Scale 8 to 9	—	—	7.2		1.6		1.6	
Phi Scale 9 to 10	—	—	7.3		1.2		2.1	
Phi Scale >10	—	—	22.8		3.5		3.7	
Fines (Silt/Clay)	—	—	88.8		71.9		52.6	
Metals in mg/kg DW								
Arsenic	57	93						
Cadmium	5.1	6.7						
Chromium	—	—						
Copper	390	390						
Lead	450	530						
Mercury	0.41	0.59						
Silver	6.1	6.1						
Zinc	410	960						
Butyltins ug/kg DW								
Dibutyl Tin Ion	—	—						
Tributyl Tin Ion	—	—						
Butyl Tin Ion	—	—						
LPAH in mg/kg TOC								
Naphthalene	99	170						
Acenaphthylene	66	66						
Acenaphthene	16	57						
Fluorene	23	79						
Phenanthrene	100	480						
Anthracene	220	1200						
1-Methylnaphthalene	—	—						
2-Methylnaphthalene	38	64						
Total LPAH	960	5300						
HPAH in mg/kg TOC								
Fluoranthene	160	1200						
Pyrene	1000	1400						
Benzo(a)anthracene	110	270						
Chrysene	110	460						
Benzo(b)fluoranthene	—	—						
Benzo(k)fluoranthene	—	—						
Benzofluoranthenes	230	450						
Benzo(a)pyrene	99	210						
Indeno(1,2,3-cd)pyrene	34	88						
Dibenz(a,h)anthracene	12	33						
Benzo(g,h,i)perylene	31	78						
Retene	—	—						
Total HPAH	960	5300						
Chlorinated Aromatics in mg/kg TOC								
1,3-Dichlorobenzene	—	—						
1,4-Dichlorobenzene	3.1	9						
1,2-Dichlorobenzene	2.3	2.3						
1,2,4-Trichlorobenzene	0.81	1.8						
Hexachlorobenzene	0.38	2.3						
Phthalate Esters in mg/kg TOC								
Dimethylphthalate	53	53						
Diethylphthalate	61	110						
Di-n-Butylphthalate	220	1700						
Butylbenzylphthalate	4.9	64						
bis(2-Ethylhexyl)phthalate	47	78						
Di-n-Octylphthalate	58	4500						
Phenols in ug/kg DW								
Phenol	420	1200						
2-Methylphenol	63	63						
4-Methylphenol	670	670						
2,4-Dimethylphenol	29	29						
Pentachlorophenol	360	690						

Table D-1. Surface Sediment Chemistry
(TOC Normalized)

Sample ID Collection Date	WA SQS	WA CSL	SB-REF-76 11/25/2008 LQ	CR-20/24-65 11/25/2008 LQ	CR-23-49 11/25/2008 LQ
Guaiacols and Resins in ug/kg DW					
Guaiacol	—	—			
4,5-Dichloroguaiacol	—	—			
4,5,6-Trichloroguaiacol	—	—			
3,4,5-Trichloroguaiacol	—	—			
Tetrachloroguaiacol	—	—			
Pimaric Acid	—	—			
Isopimaric Acid	—	—			
Dehydroabietic Acid	—	—			
Abietic Acid	—	—			
Miscellaneous Extractables in mg/kg TOC					
Benzyl Alcohol (ug/kg DW)	57	73			
Benzoic Acid (ug/kg DW)	650	650			
Dibenzofuran	15	58			
Hexachlorobutadiene	3.9	6.2			
N-Nitrosodiphenylamine	28	130			
PCBs in mg/kg TOC					
Aroclor-1221	—	—			
Aroclor-1232	—	—			
Aroclor-1242	—	—			
Aroclor-1016	—	—			
Aroclor-1248	—	—			
Aroclor-1254	—	—			
Aroclor-1260	—	—			
Aroclor-1262	—	—			
Aroclor-1268	—	—			
Total PCBs	12	65			
Pesticides in mg/kg TOC					
4,4'-DDT	—	—			
4,4'-DDE	—	—			
4,4'-DDD	—	—			
gamma-BHC (Lindane)	—	—			
Heptachlor	—	—			
Aldrin	—	—			
Dieldrin	—	—			
gamma Chlordane	—	—			
alpha Chlordane	—	—			
oxy Chlordane	—	—			
cis-Nonachlor	—	—			
trans-Nonachlor	—	—			
Dioxin/Furan pg TEQ/g DW					
2,3,7,8-TCDD	—	—			
1,2,3,7,8-PECDD	—	—			
1,2,3,4,7,8-HXCDD	—	—			
1,2,3,6,7,8-HXCDD	—	—			
1,2,3,7,8,9-HXCDD	—	—			
1,2,3,4,6,7,8-HPCDD	—	—			
OCDD	—	—			
2,3,7,8-TCDF	—	—			
1,2,3,7,8-PECDF	—	—			
2,3,4,7,8-PECDF	—	—			
1,2,3,4,7,8-HXCDF	—	—			
1,2,3,6,7,8-HXCDF	—	—			
1,2,3,7,8,9-HXCDF	—	—			
2,3,4,6,7,8-HXCDF	—	—			
1,2,3,4,6,7,8-HPCDF	—	—			
1,2,3,4,7,8,9-HPCDF	—	—			
OCDF	—	—			
TEQ 0 DL	—	—			
TEQ 1/2 DL	—	—			

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A1-01			A1-02			A1-03			A1-07			A1-10			A1-15		
Collection Date	SQS	CSL	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ
Conventionals																				
Total Organic Carbon (% DW)	—	—	4.41			3.73			7.06			3.55			5.23			1.51		
TVS (% DW)	—	—	16.45			12.8			24.53			21.85			14.17			3.79		
Total Solids (% DW)	—	—	35.3			29.8			28.7			28.5			41.2			69.5		
Preserved Total Solids (% DW)	—	—	32.2			29.9			29.8			29.1			35.6			66.5		
Ammonia (mg-N/kg DW)	—	—	11.6			83.5			23.9			26.3			9.03			4.35		
Total Sulfides (mg/kg DW)	—	—	3780		J	2460		J	2540		J	3030		J	1560		J	13.3		J
Grain Size																				
Phi Scale <-1	—	—	9.7			1.8			7.6			10.8			4.7			13.4		
Phi Scale -1 to 0	—	—	3.5			2.1			3.9			3.8			3.1			6.7		
Phi Scale 0 to 1	—	—	3.7			1.2			3.9			3.9			6.2			12		
Phi Scale 1 to 2	—	—	5.7			1			4.9			4.5			12.1			14.9		
Phi Scale 2 to 3	—	—	11			1.4			5.4			5.1			9.1			5.4		
Phi Scale 3 to 4	—	—	13.2			3			7.4			7.7			10.3			12.7		
Phi Scale 4 to 5	—	—	7.9			8			6.8			6.2			8			12.9		
Phi Scale 5 to 6	—	—	15.2			23.5			14.2			26.1			10.8			7.2		
Phi Scale 6 to 7	—	—	12			23.8			16			11.9			10.8			4.2		
Phi Scale 7 to 8	—	—	4.4			8.3			9.2			4.6			7			2.7		
Phi Scale 8 to 9	—	—	2.8			5.3			5.4			3			4.4			1.9		
Phi Scale 9 to 10	—	—	2.5			5.4			5.1			3.5			3.9			1.8		
Phi Scale >10	—	—	8.2			15.1			10.3			9			9.5			4.1		
Fines (Silt/Clay)	—	—	53			89.5			66.9			64.3			54.5			34.9		
Metals in mg/kg DW																				
Arsenic	57	93	20			2	U	U	2	U	U	2	U	U	20			0.7	U	U
Cadmium	5.1	6.7	2.8			3.7			3.1			2.6			2.8			0.4		
Chromium	—	—	51			68			58			54			47			33.6		
Copper	390	390	72.9			83.9			79.3			70.1			72.2			28.8		
Lead	450	530	46			31			37			36			56			10		
Mercury	0.41	0.59	0.2			0.2			0.2			0.7			0.2			0.1		
Silver	6.1	6.1	0.3	U	U	0.4	U	U	0.32	U	U	0.4	U	U	0.27	U	U	0.16	U	U
Zinc	410	960	301		J	164		J	230		J	156		J	191		J	53		J
Butyltins ug/kg DW																				
Dibutyl Tin Ion	—	—							5.7	U	U							5.7	U	U
Tributyl Tin Ion	—	—							3.8	U	U							3.8	U	U
Butyl Tin Ion	—	—							3.9	U	U							4	U	U
LPAH in ug/kg DW																				
Naphthalene	2100	2100	150.00			49.00			97.00			39.00			400.00			80.00		
Acenaphthylene	1300	1300	47.00	J	J	32.00			23.00			26.00			55.00			21.00		
Acenaphthene	500	500	67.00			29.00			32.00			16.00	J	J	200.00			22.00		
Fluorene	540	540	95.00			55.00			43.00			27.00			210.00			28.00		
Phenanthrene	1500	1500	440.00			220.00			150.00			110.00			500.00			110.00		
Anthracene	960	960	170.00			220.00			87.00			70.00			250.00			42.00		
1-Methylnaphthalene	—	—	21.00	U	U	11.00	J	J	16.00	J	J	7.10	U	U	75.00			10.00	J	J
2-Methylnaphthalene	670	670	46.00	J	J	24.00			27.00			15.00	J	J	120.00			19.00	J	J
Total LPAH	5200	5200	969.00	J		605.00			432.00			288.00	J	J	1615.00			303.00		
HPAH in ug/kg DW																				
Fluoranthene	1700	2500	760.00			550.00			290.00			230.00			1100.00			170.00		
Pyrene	2600	3300	810.00			690.00			330.00			280.00			890.00			180.00		
Benzo(a)anthracene	1300	1600	360.00			450.00			130.00			130.00			310.00			53.00		
Chrysene	1400	2800	600.00			700.00			180.00			230.00			450.00			72.00		
Benzo(b)fluoranthene	—	—	490.00			620.00			130.00			180.00			250.00			71.00		
Benzo(k)fluoranthene	—	—	320.00			420.00			180.00			180.00			320.00			46.00		
Benzofluoranthenes	3200	3600	810.00			1040.00			310.00			360.00			570.00			117.00		
Benzo(a)pyrene	1600	1600	320.00			420.00			110.00			130.00			190.00			53.00		
Indeno(1,2,3-cd)pyrene	600	690	130.00			140.00			40.00			42.00			53.00			23.00		
Dibenz(a,h)anthracene	230	230	49.00	J	J	59.00			17.00	J	J	17.00	J	J	23.00			8.40	U	U
Benzo(g,h,i)perylene	670	720	140.00			130.00			37.00			40.00			46.00			27.00		
Retene	12000	12000																		
Total HPAH			3979.00	J	J	4179.00			1444.00	J	J	1459.00	J	J	3632.00			695.00		
Chlorinated Aromatics in ug/kg DW																				
1,3-Dichlorobenzene	—	—	22.00	U	U	7.40	U	U	7.30	U	U	7.40	U	U	7.30	U	U	7.30	U	U
1,4-Dichlorobenzene	110	110	22.00	U	U	7.30	U	U	7.30	U	U	7.30	U	U	7.30	U	U	7.20	U	U
1,2-Dichlorobenzene	35	50	23.00	U	U	7.80	U	U	7.80	U	U	7.80	U	U	7.80	U	U	7.70	U	U
1,2,4-Trichlorobenzene	31	51	27.00	U	U	9.00	U	U	9.00	U	U	9.00	U	U	9.00	U	U	8.90	U	U
Hexachlorobenzene	22	70	1.80	U	U	7.90	U	U	7.90	U	U	7.90	U	U	7.90	U	U	7.90	U	U
Phthalate Esters in ug/kg DW																				
Dimethylphthalate	71	160	23.00	U	U	7.70	U	U	7.70	U	U	7.70	U	U	7.60	U	U	7.60	U	U
Diethylphthalate	200	1200	49.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100	37.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900	33.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100	110.00			82.00			49.00			67.00			76.00			11.00	J	J
Di-n-Octylphthalate	6200	6200	25.00	U	U	8.20	U	U	8.20	U	U	8.20	U	U	8.20	U	U	8.20	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	41	U	U	14	U	U	16	J	J	17	J	J	43			40		
2-Methylphenol	63	63	42	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	360			60			310			41			1200			68		
2,4-Dimethylphenol	29	29	3.6	U	U	15	U	U	15	U	U	15	U	U	16	J	J	15	U	U
Pentachlorophenol	360	690	140	U	U	47	U	U	47	U	U	47	U	U	47	U	U	47	U	U

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A1-01			A1-02			A1-03			A1-07			A1-10			A1-15		
Collection Date	SQS	CSL	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ	08/01/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																				
Guaiacol	—	—				20	U	U												
4,5-Dichloroguaiacol	—	—				20	U	U												
4,5,6-Trichloroguaiacol	—	—				20	U	U												
3,4,5-Trichloroguaiacol	—	—				20	U	U												
Tetrachloroguaiacol	—	—				20	U	U												
Pimaric Acid	—	—				200	U	U												
Isopimaric Acid	—	—				200	U	U												
Dehydroabietic Acid	—	—				320														
Abietic Acid	—	—				170	J	J												
Miscellaneous Extractables in ug/kg DW																				
Benzyl Alcohol	57	73	43	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
Benzoic Acid	650	650	340	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540	66.00			42.00			42.00			19.00	J	J	170.00			24.00		
Hexachlorobutadiene	11	120	24.00	U	U	8.00	U	U	8.00	U	U	8.00	U	U	8.00	U	U	8.00	U	U
N-Nitrosodiphenylamine	28	40	26.00	U	U	8.60	U	U	8.60	U	U	8.60	U	U	8.60	U	U	8.50	U	U
PCBs in ug/kg DW																				
Aroclor-1221	—	—	6.60	U	U	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.60	U	U
Aroclor-1232	—	—	6.60	Y	U	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.60	U	U
Aroclor-1242	—	—	6.60	U	U	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.60	U	U
Aroclor-1016	—	—	6.60	U	U	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.60	U	U
Aroclor-1248	—	—	6.60	U	U	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.60	U	U
Aroclor-1254	—	—	29.00			6.60	U	U	6.50	U	U	6.60	U	U	150.00			6.60	U	U
Aroclor-1260	—	—	6.60	U	U	6.60	U	U	6.50	U	U	6.60	U	U	28.00			6.60	U	U
Aroclor-1262	—	—	6.60	U	U	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.60	U	U
Aroclor-1268	—	—	6.60	U	U	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.60	U	U
Total PCBs	130	1000	29.00			6.60	U	U	6.50	U	U	6.60	U	U	178.00			6.60	U	U
Pesticides in ug/kg DW																				
4,4'-DDT	—	—																		
4,4'-DDE	—	—																		
4,4'-DDD	—	—																		
gamma-BHC (Lindane)	—	—																		
Heptachlor	—	—																		
Aldrin	—	—																		
Dieldrin	—	—																		
gamma Chlordane	—	—																		
alpha Chlordane	—	—																		
oxy Chlordane	—	—																		
cis-Nonachlor	—	—																		
trans-Nonachlor	—	—																		
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	—	—							2.23						4.02					
1,2,3,7,8-PECDD	—	—							8.65						14.3					
1,2,3,4,7,8-HXCDD	—	—							14.4						14.9					
1,2,3,6,7,8-HXCDD	—	—							49.1						33.6					
1,2,3,7,8,9-HXCDD	—	—							34.9						32.2					
1,2,3,4,6,7,8-HPCDD	—	—							755						513					
OCDD	—	—							5910						4250					
2,3,7,8-TCDF	—	—							27.1						36					
1,2,3,7,8-PECDF	—	—							6.28						13.5					
2,3,4,7,8-PECDF	—	—							8.75						17.2					
1,2,3,4,7,8-HXCDF	—	—							17.2						15.4					
1,2,3,6,7,8-HXCDF	—	—							7.32						10.7					
1,2,3,7,8,9-HXCDF	—	—							1.04	J	J				1.53	J	J			
2,3,4,6,7,8-HXCDF	—	—							7.27						11					
1,2,3,4,6,7,8-HPCDF	—	—							137						99.4					
1,2,3,4,7,8,9-HPCDF	—	—							8.68						7.11					
OCDF	—	—							264						147					
TEQ 0 DL	—	—							40.4						46.9					
TEQ 1/2 DL	—	—							40.4						46.9					

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A1-15-D			A1-15-T			A1-16			A1-18			A1-23			A1-24			A1-31B		
Collection Date	**SQS**	**CSL**	**08/01/2008**	**LQ**	**VQ**	**08/01/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/12/2008**	**LQ**	**VQ**
Conventionals																							
Total Organic Carbon (% DW)	—	—	1.26			1.1			1.65			1.82			1.42			1.28			0.422		
TVS (% DW)	—	—	3.54			3.6			5.9			5.23			6.43			13.09			1.14		
Total Solids (% DW)	—	—	72.7			69.5			61.2			64.8			57.4			48.2			76.6		
Preserved Total Solids (% DW)	—	—	65.8			70.1			50.9			60.2			53.2			39.4			77.8		
Ammonia (mg-N/kg DW)	—	—	3.26			2.99			3.94			3.32			3.52			5.37			2.46		
Total Sulfides (mg/kg DW)	—	—	9.82		J	2.4		J	169		J	11.7		J	73		J	377		J	0.01	U	U
Grain Size																							
Phi Scale <-1	—	—	12.1			19.6			4.1			3.1			2.7			3.4			2.3		
Phi Scale -1 to 0	—	—	7.7			7.4			3.3			2.6			2.7			2.1			8		
Phi Scale 0 to 1	—	—	14.3			14.2			11.9			8.5			5.5			3.8			17.8		
Phi Scale 1 to 2	—	—	16.2			18.4			18.1			20.9			7.4			6.4			44.1		
Phi Scale 2 to 3	—	—	6.1			5.5			12.3			10.4			8			13.3			22.2		
Phi Scale 3 to 4	—	—	12.3			10.3			18.7			21.7			22.6			23.6			3		
Phi Scale 4 to 5	—	—	10			10.2			9.9			11.6			19.8			15.4					
Phi Scale 5 to 6	—	—	5.9			3.8			5			5.9			8.3			7.8					
Phi Scale 6 to 7	—	—	3.5			2.4			4.1			3.9			5.6			5.4					
Phi Scale 7 to 8	—	—	2.4			1.6			3			3.3			4.6			5.9					
Phi Scale 8 to 9	—	—	1.9			1.3			2.4			1.9			1.3			3.3					
Phi Scale 9 to 10	—	—	1.4			1			2.3			1.9			4.5			3.6					
Phi Scale >10	—	—	6.3			4.2			4.9			4.5			6.9			6					
Fines (Silt/Clay)	—	—	31.3			24.6			31.6			32.9			51.1			47.4			2.6		
Metals in mg/kg DW																							
Arsenic	57	93							10			0.8	U	U	0.9	U	U	50			0.7	U	U
Cadmium	5.1	6.7							1			0.6			0.8			1.5			0.03	U	U
Chromium	—	—							38.9			31			43			46			28.1		
Copper	390	390							33.6			28.9			38.2			137			12		
Lead	450	530							16			11			15			47			4		
Mercury	0.41	0.59							0.08			0.09			0.08			0.1			0.005	U	U
Silver	6.1	6.1							0.19	U	U	0.17	U	U	0.19	U	U	0.24	U	U	0.14	U	U
Zinc	410	960							78		J	56		J	76		J	415		J	39		
Butyltins ug/kg DW																							
Dibutyl Tin Ion	—	—																					
Tributyl Tin Ion	—	—																					
Butyl Tin Ion	—	—																					
LPAH in ug/kg DW																							
Naphthalene	2100	2100							170.00			88.00			84.00			140.00			8.40	U	U
Acenaphthylene	1300	1300							42.00			17.00	J	J	14.00	J	J	28.00			8.40	U	U
Acenaphthene	500	500							92.00			18.00	J	J	23.00			120.00			8.00	U	U
Fluorene	540	540							130.00			24.00			27.00			94.00			8.70	U	U
Phenanthrene	1500	1500							540.00			85.00			94.00			320.00			8.20	U	U
Anthracene	960	960							240.00			31.00			35.00			110.00			7.50	U	U
1-Methylnaphthalene	—	—							63.00			11.00	J	J	13.00	J	J	40.00			7.00	U	U
2-Methylnaphthalene	670	670							63.00			18.00	J	J	18.00	J	J	62.00			8.00	U	U
Total LPAH	5200	5200							1340.00			263.00	J	J	277.00	J	J	914.00			8.70	U	U
HPAH in ug/kg DW																							
Fluoranthene	1700	2500							660.00			130.00			130.00			450.00			7.70	U	U
Pyrene	2600	3300							770.00			120.00			120.00			420.00			7.50	U	U
Benzo(a)anthracene	1300	1600							260.00			39.00			69.00			210.00			5.80	U	U
Chrysene	1400	2800							440.00			52.00			110.00			310.00			6.50	U	U
Benzo(b)fluoranthene	—	—							270.00			36.00			70.00			200.00			9.20	U	U
Benzo(k)fluoranthene	—	—							240.00			36.00			63.00			200.00			9.00	U	U
Benzofluoranthenes	3200	3600							510.00			72.00			133.00			400.00			9.20	U	U
Benzo(a)pyrene	1600	1600							230.00			27.00			59.00			180.00			7.90	U	U
Indeno(1,2,3-cd)pyrene	600	690							110.00			21.00			33.00			92.00			8.40	U	U
Dibenz(a,h)anthracene	230	230							56.00			12.00	J	J	12.00	J	J	44.00			8.30	U	U
Benzo(g,h,i)perylene	670	720							120.00			27.00			38.00			95.00			6.60	U	U
Retene	12000	12000																					
Total HPAH									3156.00			500.00	J	J	704.00	J	J	2201.00			9.20	U	U
Chlorinated Aromatics in ug/kg DW																							
1,3-Dichlorobenzene	—	—							7.40	U	U	7.20	U	U	7.30	U	U	7.20	U	U	7.20	U	U
1,4-Dichlorobenzene	110	110							7.30	U	U	7.10	U	U	7.20	U	U	7.20	U	U	7.20	U	U
1,2-Dichlorobenzene	35	50							7.80	U	U	7.60	U	U	7.70	U	U	7.70	U	U	7.70	U	U
1,2,4-Trichlorobenzene	31	51							9.00	U	U	8.70	U	U	8.90	U	U	8.80	U	U	8.80	U	U
Hexachlorobenzene	22	70							8.00	U	U	7.70	U	U	7.80	U	U	7.80	U	U	7.80	U	U
Phthalate Esters in ug/kg DW																							
Dimethylphthalate	71	160							7.70	U	U	7.50	U	U	7.60	U	U	7.60	U	U	7.50	U	U
Diethylphthalate	200	1200							16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100							12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900							11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100							44.00			14.00	J	J	31.00			200.00		J	24.00		
Di-n-Octylphthalate	6200	6200							8.30	U	U	8.00	U	U	8.10	U	U	8.10	U	U	8.10	U	U
Phenols in ug/kg DW																							
Phenol	420	1200							14	U	U	57			19	J	J	48			13	U	U
2-Methylphenol	63	63							14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670							69			50			45			87			12	U	U
2,4-Dimethylphenol	29	29							15	U	U	14	U	U	14	U	U	14	U	U	14	U	U
Pentachlorophenol	360	690							47	U	U	46	U	U	46	U	U	46	U	U	46	U	U

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A1-15-D			A1-15-T			A1-16			A1-18			A1-23			A1-24			A1-31B		
Collection Date	**SQS**	**CSL**	**08/01/2008**	**LQ**	**VQ**	**08/01/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/12/2008**	**LQ**	**VQ**
Guaiacols and Resins in ug/kg DW																							
Guaiacol	—	—																20	U	U			
4,5-Dichloroguaiacol	—	—																20	U	U			
4,5,6-Trichloroguaiacol	—	—																20	U	U			
3,4,5-Trichloroguaiacol	—	—																20	U	U			
Tetrachloroguaiacol	—	—																20	U	U			
Pimaric Acid	—	—																490	U	U			
Isopimaric Acid	—	—																490	U	U			
Dehydroabietic Acid	—	—																2600					
Abietic Acid	—	—																1600					
Miscellaneous Extractables in ug/kg DW																							
Benzyl Alcohol	57	73							14	U	U	14	U	UJ	14	U	UJ	14	U	UJ	14	U	U
Benzoic Acid	650	650							110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540							95.00			20.00			26.00			96.00			7.30	U	U
Hexachlorobutadiene	11	120							8.10	U	U	7.80	U	U	7.90	U	U	7.90	U	U	7.90	U	U
N-Nitrosodiphenylamine	28	40							8.60	U	U	8.40	U	U	8.50	U	U	8.50	U	U	8.40	U	U
PCBs in ug/kg DW																							
Aroclor-1221	—	—							6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.30	U	U
Aroclor-1232	—	—							6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.30	U	U
Aroclor-1242	—	—							6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.30	U	U
Aroclor-1016	—	—							6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.30	U	U
Aroclor-1248	—	—							6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.30	U	U
Aroclor-1254	—	—							6.60	U	U	27.00			6.50	U	U	36.00			6.30	U	U
Aroclor-1260	—	—							6.60	U	U	6.50	U	U	6.50	U	U	40.00	P	NJ	6.30	U	U
Aroclor-1262	—	—							6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.30	U	U
Aroclor-1268	—	—							6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.30	U	U
Total PCBs	130	1000							6.60	U	U	27.00			6.50	U	U	76.00	P	NJ	6.30	U	U
Pesticides in ug/kg DW																							
4,4'-DDT	—	—																					
4,4'-DDE	—	—																					
4,4'-DDD	—	—																					
gamma-BHC (Lindane)	—	—																					
Heptachlor	—	—																					
Aldrin	—	—																					
Dieldrin	—	—																					
gamma Chlordane	—	—																					
alpha Chlordane	—	—																					
oxy Chlordane	—	—																					
cis-Nonachlor	—	—																					
trans-Nonachlor	—	—																					
Dioxin/Furan pg TEQ/g DW																							
2,3,7,8-TCDD	—	—										0.346	J	J				1.4			0.042	U	U
1,2,3,7,8-PECDD	—	—										0.898	J	J				3.83	J	J	0.109	U	U
1,2,3,4,7,8-HXCDD	—	—										1.09	J	J				4.1	J	J	0.16	U	U
1,2,3,6,7,8-HXCDD	—	—										4.41						12.5			0.151	U	U
1,2,3,7,8,9-HXCDD	—	—										3.07	J	J				10			0.143	U	U
1,2,3,4,6,7,8-HPCDD	—	—										56.2						239			3.3	J	J
OCDD	—	—										422						1960			23.6		
2,3,7,8-TCDF	—	—										9.04						27.1			0.042	KJ	U
1,2,3,7,8-PECDF	—	—										0.607	J	J				3.52	J	J	0.0799	U	U
2,3,4,7,8-PECDF	—	—										1.11	J	J				4.83			0.0807	U	U
1,2,3,4,7,8-HXCDF	—	—										1.19	J	J				5.27			0.0765	KJ	U
1,2,3,6,7,8-HXCDF	—	—										0.642	J	J				2.97	J	J	0.101	U	U
1,2,3,7,8,9-HXCDF	—	—										0.081	J	J				0.635	J	J	0.0782	U	U
2,3,4,6,7,8-HXCDF	—	—										0.693	J	J				2.71	J	J	0.101	U	U
1,2,3,4,6,7,8-HPCDF	—	—										12.7						25.8			0.405	J	J
1,2,3,4,7,8,9-HPCDF	—	—										0.728	J	J				3.41	J	J	0.074	U	U
OCDF	—	—										25.3						54.9			1.06	J	J
TEQ 0 DL	—	—										4.45						16.6			0.0444		
TEQ 1/2 DL	—	—										4.45						16.6			0.176		

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A1-31			A1-38			A1-44			A1-46B			A1-46			A2-02			A2-07		
Collection Date	**SQS**	**CSL**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/15/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**
Conventionals																							
Total Organic Carbon (% DW)	—	—	0.274			0.271			0.955			0.253			0.436			0.426			0.254		
TVS (% DW)	—	—	1.02			1.06			3.09			1.06			1.13			1.52			1.86		
Total Solids (% DW)	—	—	78.9			78.2			70.2			75.8			74.9			74.2			69.8		
Preserved Total Solids (% DW)	—	—	71.3			81.3			63.3			81.2			75.7			73.4			70		
Ammonia (mg-N/kg DW)	—	—	1.37		J	1.57		J	3.29		J	0.9		J	2.93		J	0.95			2.95		
Total Sulfides (mg/kg DW)	—	—	1.84			0.01	U	U	10.9			618			27.2			0.01	U	U	17.4		
Grain Size																							
Phi Scale <-1	—	—				1.6			0	U	U	0.6						0	U	U	0.1		
Phi Scale -1 to 0	—	—				5.7			0.4			7						0	U	U	0.1		
Phi Scale 0 to 1	—	—				25			1			25.6						2.6			0.6		
Phi Scale 1 to 2	—	—				51.6			12.2			49.3						39.7			7.8		
Phi Scale 2 to 3	—	—				13.1			39			14.4						48.2			58.3		
Phi Scale 3 to 4	—	—				1			25.9			0.8						5.5			25.7		
Phi Scale 4 to 5	—	—							9.8									1.1					
Phi Scale 5 to 6	—	—							2.8									0.4					
Phi Scale 6 to 7	—	—							1.9									0.5					
Phi Scale 7 to 8	—	—							1.3									0.3					
Phi Scale 8 to 9	—	—							1.1									0.3					
Phi Scale 9 to 10	—	—							1.5									0.4					
Phi Scale >10	—	—							2.9									1.2					
Fines (Silt/Clay)	—	—				2			21.5			2.2						4.1			7.4		
Metals in mg/kg DW																							
Arsenic	57	93				0.6	U	U	0.8	U	U	0.6	U	U				12			0.7	U	U
Cadmium	5.1	6.7				0.02	U	U	0.03	U	U	0.02	U	U				0.03	U	U	0.03	U	U
Chromium	—	—				30.7		J	36.8		J	33.8						30.6			34.1		
Copper	390	390				11			16.5			9.6						18.6			21.4		
Lead	450	530				4			8			4						6			6		
Mercury	0.41	0.59				0.005	U	UJ	0.006	U	UJ	0.006	U	U				0.006	U	UJ	0.19		J
Silver	6.1	6.1				0.13	U	U	0.16	U	U	0.13	U	U				0.14	U	U	0.16	U	U
Zinc	410	960				33			43			46						47			49		
Butyltins ug/kg DW																							
Dibutyl Tin Ion	—	—																					
Tributyl Tin Ion	—	—																					
Butyl Tin Ion	—	—																					
LPAH in ug/kg DW																							
Naphthalene	2100	2100				8.50	U	U	8.60	U	U	8.50	U	U				8.50	U	U	8.30	U	U
Acenaphthylene	1300	1300				8.50	U	U	8.50	U	U	8.50	U	U				8.50	U	U	8.30	U	U
Acenaphthene	500	500				8.10	U	U	8.10	U	U	8.00	U	U				8.10	U	U	7.90	U	U
Fluorene	540	540				8.80	U	U	8.80	U	U	8.80	U	U				8.80	U	U	8.60	U	U
Phenanthrene	1500	1500				8.20	U	U	14.00	J	J	8.20	U	U				8.30	U	U	8.00	U	U
Anthracene	960	960				7.60	U	U	7.60	U	U	7.60	U	U				7.60	U	U	7.40	U	U
1-Methylnaphthalene	—	—				7.10	U	U	7.10	U	U	7.00	U	U				7.10	U	U	6.90	U	U
2-Methylnaphthalene	670	670				8.00	U	U	8.10	U	U	8.00	U	U				8.10	U	U	7.80	U	U
Total LPAH	5200	5200				8.80	U	U	14.00	J	J	8.80	U	U				8.80	U	U	8.60	U	U
HPAH in ug/kg DW																							
Fluoranthene	1700	2500				7.80	U	U	38.00			7.70	U	U				7.80	U	U	7.60	U	U
Pyrene	2600	3300				7.60	U	U	27.00			7.60	U	U				7.60	U	U	7.40	U	U
Benzo(a)anthracene	1300	1600				5.80	U	U	12.00	J	J	5.80	U	U				5.80	U	U	5.70	U	U
Chrysene	1400	2800				6.50	U	U	18.00	J	J	6.50	U	U				6.50	U	U	6.40	U	U
Benzo(b)fluoranthene	—	—				9.30	U	U	18.00	J	J	9.30	U	U				9.40	U	U	9.10	U	U
Benzo(k)fluoranthene	—	—				9.10	U	U	12.00	J	J	9.10	U	U				9.10	U	U	8.90	U	U
Benzofluoranthenes	3200	3600				9.30	U	U	30.00	J	J	9.30	U	U				9.40	U	U	9.10	U	U
Benzo(a)pyrene	1600	1600				8.00	U	U	13.00	J	J	8.00	U	U				8.00	U	U	7.80	U	U
Indeno(1,2,3-cd)pyrene	600	690				8.40	U	U	8.50	U	U	8.40	U	U				8.50	U	U	8.20	U	U
Dibenz(a,h)anthracene	230	230				8.40	U	U	8.40	U	U	8.40	U	U				8.40	U	U	8.20	U	U
Benzo(g,h,i)perylene	670	720				6.60	U	U	6.70	U	U	6.60	U	U				6.60	U	U	6.50	U	U
Retene	12000	12000																					
Total HPAH						9.30	U	U	138.00	J	J	9.30	U	U				9.40	U	U	9.10	U	U
Chlorinated Aromatics in ug/kg DW																							
1,3-Dichlorobenzene	—	—				7.30	U	U	7.30	U	U	7.30	U	U				7.30	U	U	7.10	U	U
1,4-Dichlorobenzene	110	110				7.20	U	U	7.30	U	U	7.20	U	U				7.20	U	U	7.00	U	U
1,2-Dichlorobenzene	35	50				7.70	U	U	7.80	U	U	7.70	U	U				7.70	U	U	7.50	U	U
1,2,4-Trichlorobenzene	31	51				8.90	U	U	9.00	U	U	8.90	U	U				8.90	U	U	8.70	U	U
Hexachlorobenzene	22	70				7.90	U	U	7.90	U	U	7.80	U	U				7.90	U	U	7.70	U	U
Phthalate Esters in ug/kg DW																							
Dimethylphthalate	71	160				7.60	U	U	7.70	U	U	7.60	U	U				7.60	U	U	7.40	U	U
Diethylphthalate	200	1200				16.00	U	U	16.00	U	U	16.00	U	U				16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100				12.00	U	U	12.00	U	U	12.00	U	U				12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900				11.00	U	U	11.00	U	U	11.00	U	U				11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100				11.00	U	U	25.00			11.00	U	U				11.00	U	U	11.00	U	U
Di-n-Octylphthalate	6200	6200				8.20	U	U	8.20	U	U	8.20	U	U				8.20	U	U	8.00	U	U
Phenols in ug/kg DW																							
Phenol	420	1200				13	U	U	16	J	J	13	U	U				13	U	U	13	U	U
2-Methylphenol	63	63				14	U	U	14	U	U	14	U	U				14	U	U	14	U	U
4-Methylphenol	670	670				13	U	U	77			13	U	U				13	U	U	12	U	U
2,4-Dimethylphenol	29	29				15	U	U	15	U	U	14	U	U				15	U	U	14	U	U
Pentachlorophenol	360	690				47	U	U	47	U	U	47	U	U				47	U	U	46	U	U

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A1-31			A1-38			A1-44			A1-46B			A1-46			A2-02			A2-07		
Collection Date	SQS	CSL	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/04/2008	LQ	VQ	08/15/2008	LQ	VQ	08/04/2008	LQ	VQ	08/05/2008	LQ	VQ	08/05/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																							
Guaiacol	–	–																					
4,5-Dichloroguaiacol	–	–																					
4,5,6-Trichloroguaiacol	–	–																					
3,4,5-Trichloroguaiacol	–	–																					
Tetrachloroguaiacol	–	–																					
Pimaric Acid	–	–																					
Isopimaric Acid	–	–																					
Dehydroabietic Acid	–	–																					
Abietic Acid	–	–																					
Miscellaneous Extractables in ug/kg DW																							
Benzyl Alcohol	57	73				14	U	U	14	U	U	14	U	UJ				14	U	U	14	U	U
Benzoic Acid	650	650				110	U	U	110	U	U	110	U	U				110	U	U	110	U	U
Dibenzofuran	540	540				7.40	U	U	7.50	U	U	7.40	U	U				7.40	U	U	7.20	U	U
Hexachlorobutadiene	11	120				8.00	U	U	8.00	U	U	7.90	U	U				8.00	U	U	7.80	U	U
N-Nitrosodiphenylamine	28	40				8.50	U	U	8.60	U	U	8.50	U	U				8.50	U	U	8.30	U	U
PCBs in ug/kg DW																							
Aroclor-1221	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Aroclor-1232	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Aroclor-1242	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Aroclor-1016	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Aroclor-1248	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Aroclor-1254	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Aroclor-1260	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Aroclor-1262	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Aroclor-1268	–	–				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Total PCBs	130	1000				6.40	U	U	6.50	U	U	6.40	U	U				6.60	U	U	6.50	U	U
Pesticides in ug/kg DW																							
4,4'-DDT	–	–																					
4,4'-DDE	–	–																					
4,4'-DDD	–	–																					
gamma-BHC (Lindane)	–	–																					
Heptachlor	–	–																					
Aldrin	–	–																					
Dieldrin	–	–																					
gamma Chlordane	–	–																					
alpha Chlordane	–	–																					
oxy Chlordane	–	–																					
cis-Nonachlor	–	–																					
trans-Nonachlor	–	–																					
Dioxin/Furan pg TEQ/g DW																							
2,3,7,8-TCDD	–	–										0.0484	KJ	U				0.0388	KJ	U			
1,2,3,7,8-PECDD	–	–										0.126	U	U				0.101	U	U			
1,2,3,4,7,8-HXCDD	–	–										0.184	U	U				0.148	U	U			
1,2,3,6,7,8-HXCDD	–	–										0.174	U	U				0.177	J	J			
1,2,3,7,8,9-HXCDD	–	–										0.165	U	U				0.163	J	J			
1,2,3,4,6,7,8-HPCDD	–	–										1.31	J	J				1.83	J	J			
OCDD	–	–										12.9						14.3					
2,3,7,8-TCDF	–	–										0.0526	KJ	U				0.0388	KJ	U			
1,2,3,7,8-PECDF	–	–										0.092	U	U				0.0738	U	U			
2,3,4,7,8-PECDF	–	–										0.0929	U	U				0.0746	U	U			
1,2,3,4,7,8-HXCDF	–	–										0.0881	U	U				0.0707	U	U			
1,2,3,6,7,8-HXCDF	–	–										0.116	U	U				0.0932	U	U			
1,2,3,7,8,9-HXCDF	–	–										0.09	U	U				0.0722	U	U			
2,3,4,6,7,8-HXCDF	–	–										0.116	U	U				0.0932	U	U			
1,2,3,4,6,7,8-HPCDF	–	–										0.203	J	J				0.361	J	J			
1,2,3,4,7,8,9-HPCDF	–	–										0.0852	U	U				0.0683	U	U			
OCDF	–	–										0.287	J	J				0.651	J	J			
TEQ 0 DL	–	–										0.0191						0.0604					
TEQ 1/2 DL	–	–										0.171						0.169					

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-08			A2-10			A2-10-D			A2-10-T			A2-11			A2-13			A2-14		
Collection Date	**SQS**	**CSL**	**08/05/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/07/2008**	**LQ**	**VQ**
Conventionals																							
Total Organic Carbon (% DW)	—	—	0.238			0.923									0.799			1.78			1.29		
TVS (% DW)	—	—	1.5			4.36									4.29			6.82			9.99		
Total Solids (% DW)	—	—	70.3			68.2									68.2			53.8			48.1		
Preserved Total Solids (% DW)	—	—	70			63.5									72.2			54.8			43.9		
Ammonia (mg-N/kg DW)	—	—	0.96			4.58		J							4.13		J	8.79		J	12.7		
Total Sulfides (mg/kg DW)	—	—	0.01	U	U	126									109			137			105		
Grain Size																							
Phi Scale <-1	—	—	0	U	U	0.1									1.7			0.2			2.1		
Phi Scale -1 to 0	—	—	0	U	U	0.4									0.6			0.8			1.9		
Phi Scale 0 to 1	—	—	0.6			1.8									0.7			0.7			2		
Phi Scale 1 to 2	—	—	11.5			2.1									27.2			1.8			2.3		
Phi Scale 2 to 3	—	—	70.5			19.3									53.5			3.8			4.1		
Phi Scale 3 to 4	—	—	15.2			43									7.4			9.6			28.6		
Phi Scale 4 to 5	—	—				14.5									3.2			14.4			22.6		
Phi Scale 5 to 6	—	—				5.5									1.5			23.3			12.7		
Phi Scale 6 to 7	—	—				4.3									1.8			16.6			8.3		
Phi Scale 7 to 8	—	—				2									0.3			10.2			4.8		
Phi Scale 8 to 9	—	—				1.8									0.5			4.5			2.3		
Phi Scale 9 to 10	—	—				1.7									0.3			5.5			2.1		
Phi Scale >10	—	—				3.5									1.1			8.7			6.2		
Fines (Silt/Clay)	—	—	2.3			33.3									8.8			83.2			59		
Metals in mg/kg DW																							
Arsenic	57	93	0.7	U	U	11			10			11			8			20			12		
Cadmium	5.1	6.7	0.03	U	U	0.3			0.3			0.03	U	U	0.03	U	U	0.4			0.04	U	U
Chromium	—	—	30.9			40.1		J	37.8		J	38.7		J	31.9		J	59		J	53		
Copper	390	390	18.8			34.5			34.5			35.2			23.1			60			47.7		
Lead	450	530	4			6			6			6			5			11			9		
Mercury	0.41	0.59	0.006	U	UJ	0.008	U	UJ	0.007	U	UJ	0.008	U	UJ	0.006	U	UJ	0.12		J	0.01	U	U
Silver	6.1	6.1	0.15	U	U	0.17	U	U	0.16	U	U	0.17	U	U	0.16	U	U	0.21	U	U	0.2	U	U
Zinc	410	960	44			59			58			58			52			90			75		
Butyltins ug/kg DW																							
Dibutyl Tin Ion	—	—													5.2	U	U	5.6	U	U			
Tributyl Tin Ion	—	—													3.5	U	U	3.8	U	U			
Butyl Tin Ion	—	—													3.6	U	U	3.9	U	U			
LPAH in ug/kg DW																							
Naphthalene	2100	2100	8.40	U	U	14.00	J	J	8.50	U	U				8.50	U	U	8.50	U	U	29.00		
Acenaphthylene	1300	1300	8.40	U	U	8.40	U	U	8.50	U	U				8.50	U	U	8.50	U	U	8.60	U	U
Acenaphthene	500	500	8.00	U	U	8.00	U	U	8.00	U	U				8.10	U	U	8.10	U	U	8.10	U	U
Fluorene	540	540	8.70	U	U	8.70	U	U	8.80	U	U				8.80	U	U	8.80	U	U	23.00		
Phenanthrene	1500	1500	8.20	U	U	20.00			14.00	J	J				8.30	U	U	23.00			96.00		
Anthracene	960	960	7.50	U	U	7.50	U	U	7.60	U	U				7.60	U	U	19.00	J	J	7.70	U	U
1-Methylnaphthalene	—	—	7.00	U	U	7.00	U	U	7.00	U	U				7.10	U	U	7.10	U	U	7.10	U	U
2-Methylnaphthalene	670	670	8.00	U	U	8.00	U	U	8.00	U	U				8.10	U	U	8.00	U	U	8.10	U	U
Total LPAH	5200	5200	8.70	U	U	34.00	J	J	14.00	J	J				8.80	U	U	42.00	J	J	148.00		
HPAH in ug/kg DW																							
Fluoranthene	1700	2500	7.70	U	U	30.00			24.00						37.00			65.00			90.00		
Pyrene	2600	3300	7.50	U	U	20.00			15.00	J	J				32.00			42.00			72.00		
Benzo(a)anthracene	1300	1600	5.80	U	U	5.80	U	U	10.00	J	J				5.80	U	U	14.00	J	J	21.00		
Chrysene	1400	2800	6.50	U	U	12.00	J	J	12.00	J	J				20.00			26.00			31.00		
Benzo(b)fluoranthene	—	—	9.30	U	U	12.00	J	J	10.00	J	J				9.40	U	U	29.00			9.40	U	U
Benzo(k)fluoranthene	—	—	9.00	U	U	9.00	U	U	12.00	J	J				9.10	U	U	15.00	J	J	22.00		
Benzofluoranthenes	3200	3600	9.30	U	U	12.00	J	J	22.00	J	J				9.40	U	U	44.00	J	J	22.00		
Benzo(a)pyrene	1600	1600	7.90	U	U	8.00	U	U	10.00	J	J				8.00	U	U	12.00	J	J	8.10	U	U
Indeno(1,2,3-cd)pyrene	600	690	8.40	U	U	8.40	U	U	8.40	U	U				8.50	U	U	8.40	U	U	8.50	U	U
Dibenz(a,h)anthracene	230	230	8.30	U	U	8.30	U	U	8.40	U	U				8.40	U	U	8.40	U	U	8.50	U	U
Benzo(g,h,i)perylene	670	720	6.60	U	U	6.60	U	U	6.60	U	U				6.60	U	U	6.60	U	U	6.70	U	U
Retene	12000	12000																					
Total HPAH			9.30	U	U	86.00	J	J	115.00	J	J				89.00			203.00	J	J	236.00		
Chlorinated Aromatics in ug/kg DW																							
1,3-Dichlorobenzene	—	—	7.20	U	U	7.30	U	U	7.30	U	U				7.30	U	U	7.30	U	U	7.40	U	U
1,4-Dichlorobenzene	110	110	7.20	U	U	7.20	U	U	7.20	U	U				7.20	U	U	7.20	U	U	7.30	U	U
1,2-Dichlorobenzene	35	50	7.70	U	U	7.70	U	U	7.70	U	U				7.70	U	U	7.70	U	U	7.80	U	U
1,2,4-Trichlorobenzene	31	51	8.80	U	U	8.80	U	U	8.90	U	U				8.90	U	U	8.90	U	U	9.00	U	U
Hexachlorobenzene	22	70	7.80	U	U	7.80	U	U	7.80	U	U				7.90	U	U	7.90	U	U	7.90	U	U
Phthalate Esters in ug/kg DW																							
Dimethylphthalate	71	160	7.50	U	U	7.60	U	U	7.60	U	U				7.60	U	U	7.60	U	U	7.70	U	U
Diethylphthalate	200	1200	16.00	U	U	16.00	U	U	16.00	U	U				16.00	U	U	16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100	12.00	U	U	14.00	J	J	12.00	U	U				12.00	U	U	12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900	11.00	U	U	11.00	U	U	11.00	U	U				11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100	11.00	U	U	22.00			20.00						11.00	U	U	74.00			68.00		
Di-n-Octylphthalate	6200	6200	8.10	U	U	8.10	U	U	8.10	U	U				8.20	U	U	8.20	U	U	8.30	U	U
Phenols in ug/kg DW																							
Phenol	420	1200	13	U	U	13	U	U	13	U	U				13	U	U	140			14	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U				14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	12	U	U	14	J	J	17	J	J				13	U	U	490			20		
2,4-Dimethylphenol	29	29	14	U	U	14	U	U	14	U	U				15	U	U	15	U	U	15	U	U
Pentachlorophenol	360	690	46	U	U	46	U	U	46	U	U				47	U	U	47	U	U	47	U	U

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-08			A2-10			A2-10-D			A2-10-T			A2-11			A2-13			A2-14		
Collection Date	**SQS**	**CSL**	**08/05/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/07/2008**	**LQ**	**VQ**
Guaiacols and Resins in ug/kg DW																							
Guaiacol	—	—																					
4,5-Dichloroguaiacol	—	—																					
4,5,6-Trichloroguaiacol	—	—																					
3,4,5-Trichloroguaiacol	—	—																					
Tetrachloroguaiacol	—	—																					
Pimaric Acid	—	—																					
Isopimaric Acid	—	—																					
Dehydroabietic Acid	—	—																					
Abietic Acid	—	—																					
Miscellaneous Extractables in ug/kg DW																							
Benzyl Alcohol	57	73	14	U	U	14	U	U	14	U	U				14	U	U	14	U	U	14	U	U
Benzoic Acid	650	650	110	U	U	110	U	U	110	U	U				110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540	7.30	U	U	7.40	U	U	7.40	U	U				7.40	U	U	7.40	U	U	7.50	U	U
Hexachlorobutadiene	11	120	7.90	U	U	7.90	U	U	7.90	U	U				8.00	U	U	8.00	U	U	8.00	U	U
N-Nitrosodiphenylamine	28	40	8.40	U	U	8.50	U	U	8.50	U	U				8.50	U	U	8.50	U	U	8.60	U	U
PCBs in ug/kg DW																							
Aroclor-1221	—	—	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Aroclor-1232	—	—	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Aroclor-1242	—	—	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Aroclor-1016	—	—	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Aroclor-1248	—	—	6.60	U	U	6.40	Y	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Aroclor-1254	—	—	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Aroclor-1260	—	—	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Aroclor-1262	—	—	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Aroclor-1268	—	—	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Total PCBs	130	1000	6.60	U	U	6.40	U	U	6.50	U	U				6.50	U	U	6.50	U	U	6.60	U	U
Pesticides in ug/kg DW																							
4,4'-DDT	—	—																					
4,4'-DDE	—	—																					
4,4'-DDD	—	—																					
gamma-BHC (Lindane)	—	—																					
Heptachlor	—	—																					
Aldrin	—	—																					
Dieldrin	—	—																					
gamma Chlordane	—	—																					
alpha Chlordane	—	—																					
oxy Chlordane	—	—																					
cis-Nonachlor	—	—																					
trans-Nonachlor	—	—																					
Dioxin/Furan pg TEQ/g DW																							
2,3,7,8-TCDD	—	—	0.0409	KJ	U																		
1,2,3,7,8-PECDD	—	—	0.106	U	U																		
1,2,3,4,7,8-HXCDD	—	—	0.155	U	U																		
1,2,3,6,7,8-HXCDD	—	—	0.259	J	J																		
1,2,3,7,8,9-HXCDD	—	—	0.277	J	J																		
1,2,3,4,6,7,8-HPCDD	—	—	3.53	J	J																		
OCDD	—	—	26																				
2,3,7,8-TCDF	—	—	0.175	J	J																		
1,2,3,7,8-PECDF	—	—	0.0777	U	U																		
2,3,4,7,8-PECDF	—	—	0.083	J	J																		
1,2,3,4,7,8-HXCDF	—	—	0.096	J	J																		
1,2,3,6,7,8-HXCDF	—	—	0.0982	U	U																		
1,2,3,7,8,9-HXCDF	—	—	0.0761	U	U																		
2,3,4,6,7,8-HXCDF	—	—	0.0982	U	U																		
1,2,3,4,6,7,8-HPCDF	—	—	0.642	J	J																		
1,2,3,4,7,8,9-HPCDF	—	—	0.072	U	U																		
OCDF	—	—	1.41	J	J																		
TEQ 0 DL	—	—	0.156																				
TEQ 1/2 DL	—	—	0.252																				

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-16			A2-18B			A2-18			A2-21			A2-22			A2-23			A2-25B		
Collection Date	**SQS**	**CSL**	**08/11/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
Conventionals																							
Total Organic Carbon (% DW)	—	—	1.29			2.46			1.07			1.22			0.143			0.979			2.22		
TVS (% DW)	—	—	4.9			6.42			4.49			7.48			0.97			4.56			8.32		
Total Solids (% DW)	—	—	55.8			65.9			58.6			51.7			80.2			59			55.7		
Preserved Total Solids (% DW)	—	—	59.6			61.5			57.2			50			80.6			67.9			50.1		
Ammonia (mg-N/kg DW)	—	—	4.82			5.44		J	4.67			13.9			0.03	U	UJ	4.26			4.38		J
Total Sulfides (mg/kg DW)	—	—	98.5			24.5		J	74.6			805			0.01	U	U	18.7			23		J
Grain Size																							
Phi Scale <-1	—	—	0.4			8.1			0.5			0.9			0.4			0.5			1.9		
Phi Scale -1 to 0	—	—	0.8			0.8			0.8			1.2			4.5			1			1.1		
Phi Scale 0 to 1	—	—	1.4			1.5			1.8			1.9			39.9			4.7			2.2		
Phi Scale 1 to 2	—	—	3.2			10.4			8.9			6.1			50.9			16.4			4		
Phi Scale 2 to 3	—	—	11.9			43.4			20			6.8			2.4			10.4			5.7		
Phi Scale 3 to 4	—	—	27.9			11			16.2			22			0.3			21.7			11.2		
Phi Scale 4 to 5	—	—	17.9			6			15.8			23.4						16.3			20.4		
Phi Scale 5 to 6	—	—	14.3			6.5			13.8			15.6						10.5			24		
Phi Scale 6 to 7	—	—	8.5			1.7			8.3			6.7						5.4			11		
Phi Scale 7 to 8	—	—	4.1			4.9			4.1			4						3.8			8.1		
Phi Scale 8 to 9	—	—	2.3			1.5			2.4			2.8						2.6			3.2		
Phi Scale 9 to 10	—	—	2.3			1.5			2.1			2.1						1.9			2.8		
Phi Scale >10	—	—	4.9			2.6			5.3			6.4						4.9			4.3		
Fines (Silt/Clay)	—	—	54.4			24.7			51.9			61			1.5			45.4			73.8		
Metals in mg/kg DW																							
Arsenic	57	93				11			13						6			11			13		
Cadmium	5.1	6.7				0.03	U	U	0.03	U	U				0.02	U	U	0.03	U	U	0.04	U	U
Chromium	—	—				40.5			39.1						22		J	41.1			45.6		
Copper	390	390				28.9			35.2						12.9			34.8			46.2		
Lead	450	530				8			8						3			7			11		
Mercury	0.41	0.59				0.007	U	U	0.008	U	U	0.08	*		0.005	U	UJ	0.07			0.1		
Silver	6.1	6.1				0.18	U	U	0.18	U	U				0.13	U	U	0.17	U	U	0.2	U	U
Zinc	410	960				67			67						36			63			79		
Butyltins ug/kg DW																							
Dibutyl Tin Ion	—	—																					
Tributyl Tin Ion	—	—																					
Butyl Tin Ion	—	—																					
LPAH in ug/kg DW																							
Naphthalene	2100	2100				8.50	U	U	8.60	U	U				8.40	U	U	8.60	U	U	31.00		
Acenaphthylene	1300	1300				8.50	U	U	8.50	U	U				8.40	U	U	8.60	U	U	8.60	U	U
Acenaphthene	500	500				8.10	U	U	8.10	U	U				8.00	U	U	8.20	U	U	8.20	U	U
Fluorene	540	540				8.80	U	U	8.80	U	U				8.70	U	U	8.90	U	U	8.90	U	U
Phenanthrene	1500	1500				8.20	U	U	8.30	U	U				8.10	U	U	11.00	J	J	30.00		
Anthracene	960	960				7.60	U	U	7.60	U	U				7.50	U	U	7.70	U	U	7.70	U	U
1-Methylnaphthalene	—	—				7.10	U	U	7.10	U	U				7.00	U	U	7.20	U	U	7.20	U	U
2-Methylnaphthalene	670	670				8.00	U	U	8.10	U	U				8.00	U	U	8.20	U	U	8.20	U	U
Total LPAH	5200	5200				8.80	U	U	8.80	U	U				8.70	U	U	11.00	J	J	61.00		
HPAH in ug/kg DW																							
Fluoranthene	1700	2500				30.00			7.80	U	U				7.70	U	U	38.00			40.00		
Pyrene	2600	3300				26.00			7.60	U	U				7.50	U	U	34.00			35.00		
Benzo(a)anthracene	1300	1600				5.80	U	U	5.80	U	U				5.70	U	U	18.00	J	J	5.90	U	U
Chrysene	1400	2800				6.50	U	U	6.50	U	U				6.40	U	U	28.00			37.00		
Benzo(b)fluoranthene	—	—				9.30	U	U	9.40	U	U				9.20	U	U	14.00	J	J	9.50	U	U
Benzo(k)fluoranthene	—	—				9.10	U	U	9.10	U	U				9.00	U	U	18.00	J	J	9.20	U	U
Benzofluoranthenes	3200	3600				9.30	U	U	9.40	U	U				9.20	U	U	0.00	J		9.50	U	U
Benzo(a)pyrene	1600	1600				8.00	U	U	8.00	U	U				7.90	U	U	14.00	J	J	8.10	U	U
Indeno(1,2,3-cd)pyrene	600	690				8.40	U	U	8.50	U	U				8.30	U	U	8.60	U	U	8.60	U	U
Dibenz(a,h)anthracene	230	230				8.40	U	U	8.40	U	U				8.30	U	U	8.50	U	U	8.50	U	U
Benzo(g,h,i)perylene	670	720				6.60	U	U	6.70	U	U				6.60	U	U	6.70	U	U	6.70	U	U
Retene	12000	12000										110.00	*										
Total HPAH						56.00			9.40	U	U				9.20	U	U	164.00	J	J	112.00	U	U
Chlorinated Aromatics in ug/kg DW																							
1,3-Dichlorobenzene	—	—				7.30	U	U	7.30	U	U				7.20	U	U	7.40	U	U	7.40	U	U
1,4-Dichlorobenzene	110	110				7.20	U	U	7.20	U	U				7.10	U	U	7.30	U	U	7.30	U	U
1,2-Dichlorobenzene	35	50				7.70	U	U	7.80	U	U				7.60	U	U	7.80	U	U	7.90	U	U
1,2,4-Trichlorobenzene	31	51				8.90	U	U	8.90	U	U				8.80	U	U	9.00	U	U	9.10	U	U
Hexachlorobenzene	22	70				7.90	U	U	7.90	U	U				7.80	U	U	8.00	U	U	8.00	U	U
Phthalate Esters in ug/kg DW																							
Dimethylphthalate	71	160				7.60	U	U	7.60	U	U				7.50	U	U	7.70	U	U	7.70	U	U
Diethylphthalate	200	1200				16.00	U	U	16.00	U	U				16.00	U	U	16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100				12.00	U	U	12.00	U	U				12.00	U	U	12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900				11.00	U	U	11.00	U	U				11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100				11.00	U	U	11.00	U	U				11.00	U	U	14.00	J	J	11.00	U	U
Di-n-Octylphthalate	6200	6200				8.20	U	U	8.20	U	U				8.10	U	U	8.30	U	U	8.30	U	U
Phenols in ug/kg DW																							
Phenol	420	1200				13	U	U	15	J	J	14	*U	U	13	U	U	14	U	U	14	U	U
2-Methylphenol	63	63				14	U	U	14	U	U	14	*U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670				13	U	U	13	U	U	13	*U	U	12	U	U	13	U	U	13	U	U
2,4-Dimethylphenol	29	29				15	U	U	15	U	U	15	*U	U	14	U	U	15	U	U	15	U	U
Pentachlorophenol	360	690				47	U	U	47	U	U	47	*U	U	46	U	U	47	U	U	47	U	U

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-16			A2-18B			A2-18			A2-21			A2-22			A2-23			A2-25B		
Collection Date	**SQS**	**CSL**	**08/11/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
Guaiacols and Resins in ug/kg DW																							
Guaiacol	—	—							20	U	U	20	*U	U									
4,5-Dichloroguaiacol	—	—							20	U	U	20	*U	U									
4,5,6-Trichloroguaiacol	—	—							20	U	U	20	*U	U									
3,4,5-Trichloroguaiacol	—	—							20	U	U	20	*U	U									
Tetrachloroguaiacol	—	—							20	U	U	20	*U	U									
Pimaric Acid	—	—							200	U	U	99	*U	U									
Isopimaric Acid	—	—							200	U	U	99	*U	U									
Dehydroabietic Acid	—	—							150	J	J	220											
Abietic Acid	—	—							200	U	UJ	290	*J	J									
Miscellaneous Extractables in ug/kg DW																							
Benzyl Alcohol	57	73				14	U	UJ	20	U	R				14	U	U	14	U	U	14	U	UJ
Benzoic Acid	650	650				110	U	U	110	U	U				110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540				7.40	U	U	7.40	U	U				7.30	U	U	7.50	U	U	7.50	U	U
Hexachlorobutadiene	11	120				8.00	U	U	8.00	U	U				7.90	U	U	8.10	U	U	8.10	U	U
N-Nitrosodiphenylamine	28	40				8.50	U	U	8.60	U	U				8.40	U	U	8.60	U	U	8.70	U	U
PCBs in ug/kg DW																							
Aroclor-1221	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Aroclor-1232	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Aroclor-1242	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Aroclor-1016	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Aroclor-1248	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Aroclor-1254	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Aroclor-1260	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Aroclor-1262	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Aroclor-1268	—	—				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Total PCBs	130	1000				6.40	U	U	6.50	U	U				6.40	U	U	6.60	U	U	6.50	U	U
Pesticides in ug/kg DW																							
4,4'-DDT	—	—							0.87	U	U												
4,4'-DDE	—	—							1.10	U	U												
4,4'-DDD	—	—							1.30	U	U												
gamma-BHC (Lindane)	—	—							0.48	U	U												
Heptachlor	—	—							0.40	U	U												
Aldrin	—	—							0.47	U	U												
Dieldrin	—	—							0.83	U	U												
gamma Chlordane	—	—							0.91	U	U												
alpha Chlordane	—	—							0.36	U	U												
oxy Chlordane	—	—							0.80	U	U												
cis-Nonachlor	—	—							1.00	U	U												
trans-Nonachlor	—	—							0.93	U	U												
Dioxin/Furan pg TEQ/g DW																							
2,3,7,8-TCDD	—	—				0.311	J	J													0.0443	KJ	U
1,2,3,7,8-PECDD	—	—				0.799	J	J													0.567	J	J
1,2,3,4,7,8-HXCDD	—	—				1.12	J	J													0.169	KJ	U
1,2,3,6,7,8-HXCDD	—	—				4.29	J	J													2.95	J	J
1,2,3,7,8,9-HXCDD	—	—				2.87	J	J													2.54	J	J
1,2,3,4,6,7,8-HPCDD	—	—				56.7															46.5		
OCDD	—	—				377															376		
2,3,7,8-TCDF	—	—				2.16															1.29		
1,2,3,7,8-PECDF	—	—				0.525	J	J													0.349	J	J
2,3,4,7,8-PECDF	—	—				0.688	J	J													0.504	J	J
1,2,3,4,7,8-HXCDF	—	—				1.01	J	J													0.781	J	J
1,2,3,6,7,8-HXCDF	—	—				0.555	J	J													0.106	KJ	U
1,2,3,7,8,9-HXCDF	—	—				0.0788	U	U													0.0825	U	U
2,3,4,6,7,8-HXCDF	—	—				0.515	J	J													0.515	J	J
1,2,3,4,6,7,8-HPCDF	—	—				11.7															8.89		
1,2,3,4,7,8,9-HPCDF	—	—				1.02	J	J													0.531	J	J
OCDF	—	—				31															20.6		
TEQ 0 DL	—	—				3.4															2.21		
TEQ 1/2 DL	—	—				3.4															2.25		

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-25			A2-26			A2-28			A2-29			A2-30			A2-32			A2-33B		
Collection Date	**SQS**	**CSL**	**08/07/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**
Conventionals																							
Total Organic Carbon (% DW)	—	—	0.976			0.689			0.933			1.02			0.304			0.17			0.145		
TVS (% DW)	—	—	5.13			2.03			1.14			3.1			1.17			1.04			0.97		
Total Solids (% DW)	—	—	59.4			72.1			85			63.9			82.2			78.6			79.6		
Preserved Total Solids (% DW)	—	—	59.1			72.5			76.4			64.3			79.3			78.7			76.9		
Ammonia (mg-N/kg DW)	—	—	6.28			3.22			0.03	U	UJ	4.63			0.03	U	UJ	0.03	U	UJ	0.06	U	U
Total Sulfides (mg/kg DW)	—	—	3.41			0.01	U	U	0.01	U	U	8.73			0.01	U	U	0.01	U	U	0.01	U	U
Grain Size																							
Phi Scale <-1	—	—	1.6			0.4			7.9			0.8			4.1			0.5			0.4		
Phi Scale -1 to 0	—	—	0.7			3.7			19.6			0.8			14.3			4.2			11.1		
Phi Scale 0 to 1	—	—	1.1			17.5			33.3			4.1			52.4			43.5			60.7		
Phi Scale 1 to 2	—	—	3			34.7			33.3			22.1			26.3			44.3			25.2		
Phi Scale 2 to 3	—	—	8.2			12.5			4.4			18.2			1.9			4.3			1.1		
Phi Scale 3 to 4	—	—	26.4			12.5			0.3			24.2			0.4			0.4			0.4		
Phi Scale 4 to 5	—	—	27.4			6						13.4											
Phi Scale 5 to 6	—	—	12.9			5.6						6											
Phi Scale 6 to 7	—	—	6.1			2.1						2.8											
Phi Scale 7 to 8	—	—	3.6			1.4						2.1											
Phi Scale 8 to 9	—	—	2			1.1						1.4											
Phi Scale 9 to 10	—	—	2			0.6						1.3											
Phi Scale >10	—	—	5			1.8						2.8											
Fines (Silt/Clay)	—	—	59			18.7			1.3			29.8			0.6			2.8			1		
Metals in mg/kg DW																							
Arsenic	57	93	12			7			7			9			0.6	U	U	7			7		
Cadmium	5.1	6.7	0.03	U	U	0.03	U	U	0.02	U	U	0.03	U	U	0.02	U	U	0.02	U	U	0.02	U	U
Chromium	—	—	45.9			29.5			22.2		J	34.2			22.3		J	24.9		J	25.6		
Copper	390	390	40.8			22			16.9			29			18.1			16.1			16.2		
Lead	450	530	8			6			4			7			5			3			3		
Mercury	0.41	0.59	0.008	U	U	0.005	U	U	0.004	U	UJ	0.006	U	U	0.005	U	UJ	0.005	U	UJ	0.005	U	U
Silver	6.1	6.1	0.18	U	U	0.14	U	U	0.13	U	U	0.16	U	U	0.13	U	U	0.13	U	U	0.14	U	U
Zinc	410	960	68			51			41			54			41			39			42		
Butyltins ug/kg DW																							
Dibutyl Tin Ion	—	—													0			5	U	U			
Tributyl Tin Ion	—	—													0			3.4	U	U			
Butyl Tin Ion	—	—													0			3.5	U	U			
LPAH in ug/kg DW																							
Naphthalene	2100	2100	8.40	U	U	8.70	U	U	8.50	U	U	8.60	U	U	8.50	U	U	8.50	U	U	8.50	U	U
Acenaphthylene	1300	1300	8.40	U	U	8.60	U	U	8.40	U	U	8.60	U	U	8.50	U	U	8.50	U	U	8.50	U	U
Acenaphthene	500	500	8.00	U	U	8.20	U	U	8.00	U	U	8.10	U	U	8.00	U	U	8.00	U	U	8.10	U	U
Fluorene	540	540	8.70	U	U	8.90	U	U	8.70	U	U	8.90	U	U	8.80	U	U	8.70	U	U	8.80	U	U
Phenanthrene	1500	1500	34.00			12.00	J	J	8.20	U	U	8.30	U	U	8.20	U	U	8.20	U	U	8.20	U	U
Anthracene	960	960	7.50	U	U	7.70	U	U	7.50	U	U	7.70	U	U	7.60	U	U	7.60	U	U	7.60	U	U
1-Methylnaphthalene	—	—	7.00	U	U	7.20	U	U	7.00	U	U	7.10	U	U	7.00	U	U	7.00	U	U	7.10	U	U
2-Methylnaphthalene	670	670	7.90	U	U	8.20	U	U	8.00	U	U	8.10	U	U	8.00	U	U	8.00	U	U	8.00	U	U
Total LPAH	5200	5200	34.00			12.00	J	J	8.70	U	U	8.90	U	U	8.80	U	U	8.70	U	U	8.80	U	U
HPAH in ug/kg DW																							
Fluoranthene	1700	2500	53.00			22.00			7.70	U	U	19.00	J	J	7.70	U	U	7.70	U	U	7.80	U	U
Pyrene	2600	3300	46.00			26.00			7.60	U	U	14.00	J	J	7.60	U	U	7.60	U	U	7.60	U	U
Benzo(a)anthracene	1300	1600	5.70	U	U	5.90	U	U	5.80	U	U	11.00	J	J	5.80	U	U	5.80	U	U	5.80	U	U
Chrysene	1400	2800	28.00			12.00	J	J	6.50	U	U	16.00	J	J	6.50	U	U	6.50	U	U	6.50	U	U
Benzo(b)fluoranthene	—	—	22.00			9.50	U	U	9.30	U	U	9.40	U	U	9.30	U	U	9.30	U	U	9.30	U	U
Benzo(k)fluoranthene	—	—	9.00	U	U	9.20	U	U	9.00	U	U	10.00	J	J	9.10	U	U	9.00	U	U	9.10	U	U
Benzofluoranthenes	3200	3600	22.00			9.50	U	U	9.30	U	U	10.00	J	J	9.30	U	U	9.30	U	U	9.30	U	U
Benzo(a)pyrene	1600	1600	7.90	U	U	8.10	U	U	7.90	U	U	8.10	U	U	8.00	U	U	8.00	U	U	8.00	U	U
Indeno(1,2,3-cd)pyrene	600	690	8.30	U	U	8.60	U	U	8.40	U	U	8.50	U	U	8.40	U	UJ	8.40	U	U	8.40	U	U
Dibenz(a,h)anthracene	230	230	8.30	U	U	8.50	U	U	8.30	U	U	8.50	U	U	8.40	U	UJ	8.40	U	U	8.40	U	U
Benzo(g,h,i)perylene	670	720	6.50	U	U	6.70	U	U	6.60	U	U	6.70	U	U	6.60	U	UJ	6.60	U	U	6.60	U	U
Retene	12000	12000																					
Total HPAH			149.00	U	U	60.00	J	J	9.30	U	U	70.00	J	J	9.30	U	U	9.30	U	U	9.30	U	U
Chlorinated Aromatics in ug/kg DW																							
1,3-Dichlorobenzene	—	—	7.20	U	U	7.40	U	U	7.20	U	U	7.40	U	U	7.30	U	U	7.30	U	U	7.30	U	U
1,4-Dichlorobenzene	110	110	7.10	U	U	7.30	U	U	7.20	U	U	7.30	U	U	7.20	U	U	7.20	U	U	7.20	U	U
1,2-Dichlorobenzene	35	50	7.60	U	U	7.90	U	U	7.70	U	U	7.80	U	U	7.70	U	U	7.70	U	U	7.70	U	U
1,2,4-Trichlorobenzene	31	51	8.80	U	U	9.10	U	U	8.80	U	U	9.00	U	U	8.90	U	U	8.90	U	U	8.90	U	U
Hexachlorobenzene	22	70	7.80	U	U	8.00	U	U	7.80	U	U	7.90	U	U	7.80	U	U	7.80	U	U	7.90	U	U
Phthalate Esters in ug/kg DW																							
Dimethylphthalate	71	160	7.50	U	U	7.70	U	U	7.60	U	U	7.70	U	U	7.60	U	U	7.60	U	U	7.60	U	U
Diethylphthalate	200	1200	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100	23.00			13.00	J	J	62.00			11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U
Di-n-Octylphthalate	6200	6200	8.10	U	U	8.30	U	U	8.10	U	U	8.30	U	U	8.20	U	U	8.10	U	U	8.20	U	U
Phenols in ug/kg DW																							
Phenol	420	1200	13	U	U	14	U	U	13	U	U	14	J	J	13	U	U	13	U	U	13	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	12	U	U	13	U	U	12	U	U	13	U	U	13	U	U	12	U	U	13	U	U
2,4-Dimethylphenol	29	29	14	U	U	15	U	U	14	U	U	15	U	U	14	U	U	14	U	U	14	U	U
Pentachlorophenol	360	690	46	U	U	47	U	U	46	U	U	47	U	U	47	U	U	46	U	U	47	U	U

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-25			A2-26			A2-28			A2-29			A2-30			A2-32			A2-33B		
Collection Date	**SQS**	**CSL**	**08/07/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**
Guaiacols and Resins in ug/kg DW																							
Guaiacol	—	—	19	U	U										20	U	U	20	U	U			
4,5-Dichloroguaiacol	—	—	19	U	U										20	U	U	20	U	U			
4,5,6-Trichloroguaiacol	—	—	19	U	U										20	U	U	20	U	U			
3,4,5-Trichloroguaiacol	—	—	19	U	U										20	U	U	20	U	U			
Tetrachloroguaiacol	—	—	19	U	U										20	U	U	20	U	U			
Pimaric Acid	—	—	200	U	U										98	U	U	98	U	U			
Isopimaric Acid	—	—	200	U	U										98	U	U	98	U	U			
Dehydroabietic Acid	—	—	230												98	U	U	98	U	U			
Abietic Acid	—	—	200	U	UJ										98	U	UJ	98	U	U			
Miscellaneous Extractables in ug/kg DW																							
Benzyl Alcohol	57	73	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
Benzoic Acid	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540	7.30	U	U	7.50	U	U	7.40	U	U	7.50	U	U	7.40	U	U	7.40	U	U	7.40	U	U
Hexachlorobutadiene	11	120	7.90	U	U	8.10	U	U	7.90	U	U	8.00	U	U	7.90	U	U	7.90	U	U	8.00	U	U
N-Nitrosodiphenylamine	28	40	8.40	U	U	8.70	U	U	8.50	U	U	8.60	U	U	8.50	U	U	8.50	U	U	8.50	U	U
PCBs in ug/kg DW																							
Aroclor-1221	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Aroclor-1232	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Aroclor-1242	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Aroclor-1016	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Aroclor-1248	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Aroclor-1254	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Aroclor-1260	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Aroclor-1262	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Aroclor-1268	—	—	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Total PCBs	130	1000	6.60	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U	6.40	U	U	6.50	U	U
Pesticides in ug/kg DW																							
4,4'-DDT	—	—																0.84	U	U			
4,4'-DDE	—	—																1.10	U	U			
4,4'-DDD	—	—																1.20	U	U			
gamma-BHC (Lindane)	—	—																0.47	U	U			
Heptachlor	—	—																0.39	U	U			
Aldrin	—	—																0.46	U	U			
Dieldrin	—	—																0.80	U	U			
gamma Chlordane	—	—																0.88	U	U			
alpha Chlordane	—	—																0.35	U	U			
oxy Chlordane	—	—																0.78	U	U			
cis-Nonachlor	—	—																0.99	U	U			
trans-Nonachlor	—	—																0.91	U	U			
Dioxin/Furan pg TEQ/g DW																							
2,3,7,8-TCDD	—	—													0.046	KJ	U	0.0466	U	U			
1,2,3,7,8-PECDD	—	—													0.12	U	U	0.121	U	U			
1,2,3,4,7,8-HXCDD	—	—													0.175	U	U	0.177	U	U			
1,2,3,6,7,8-HXCDD	—	—													0.47	J	J	0.168	U	U			
1,2,3,7,8,9-HXCDD	—	—													0.287	J	J	0.158	U	U			
1,2,3,4,6,7,8-HPCDD	—	—													9.33			0.68	J	J			
OCDD	—	—													66.3			3.76	J	J			
2,3,7,8-TCDF	—	—													0.224	J	J	0.0466	U	U			
1,2,3,7,8-PECDF	—	—													0.0874	U	U	0.0885	U	U			
2,3,4,7,8-PECDF	—	—													0.0883	U	U	0.0894	U	U			
1,2,3,4,7,8-HXCDF	—	—													0.153	J	J	0.0848	U	U			
1,2,3,6,7,8-HXCDF	—	—													0.11	KJ	U	0.112	U	U			
1,2,3,7,8,9-HXCDF	—	—													0.0856	U	U	0.0866	U	U			
2,3,4,6,7,8-HXCDF	—	—													0.11	U	U	0.112	U	U			
1,2,3,4,6,7,8-HPCDF	—	—													4	J	J	0.0922	KJ	U			
1,2,3,4,7,8,9-HPCDF	—	—													0.081	KJ	U	0.082	U	U			
OCDF	—	—													11.7			0.282	J	J			
TEQ 0 DL	—	—													0.267			0.00801					
TEQ 1/2 DL	—	—													0.389			0.155					

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-34B			A2-34			A2-36			A2-37B			A2-38B			A2-38			A2-38-D		
Collection Date	**SQS**	**CSL**	**08/11/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**
Conventionals																							
Total Organic Carbon (% DW)	—	—	0.911			0.189			1.52			0.6			1.26			0.117			0.116		
TVS (% DW)	—	—	2.71			0.92			5.56			1.87			3.79			0.95			0.88		
Total Solids (% DW)	—	—	71.9			76.2			57.5			70			59.1			80.2			74		
Preserved Total Solids (% DW)	—	—	72.3			76.9			54.1			69.5			47.4			74.4			73.9		
Ammonia (mg-N/kg DW)	—	—	9.05			0.03	U	U	10.7		J	1.39			6.97			0.03	U	U	0.03	U	U
Total Sulfides (mg/kg DW)	—	—	6.24			0.01	U	U	615			0.01	U	U	8.3			0.01	U	U	0.01	U	U
Grain Size																							
Phi Scale <-1	—	—	13.9			2.5			0.1			0.2			0.6			0	U	U	0	U	U
Phi Scale -1 to 0	—	—	14.3			16.8			0.4			0.2			1.2			0.4			0.4		
Phi Scale 0 to 1	—	—	17			59			1.1			0.6			1.1			29.4			29		
Phi Scale 1 to 2	—	—	14.5			19.4			3.9			19			2.9			65.8			65.7		
Phi Scale 2 to 3	—	—	8.9			0.4			24.5			51.1			13.7			3.6			3.4		
Phi Scale 3 to 4	—	—	11.2			0.1			24.2			17.4			28.9			0.2			0.2		
Phi Scale 4 to 5	—	—	9.1						14.5			4.6			21								
Phi Scale 5 to 6	—	—	4.6						11			1.9			11								
Phi Scale 6 to 7	—	—	2.3						7.6			1.5			7.1								
Phi Scale 7 to 8	—	—	1.4						4.5			1			4.1								
Phi Scale 8 to 9	—	—	0.8						3			0.6			2.6								
Phi Scale 9 to 10	—	—	0.5						2			0.7			1.9								
Phi Scale >10	—	—	1.3						3.2			1.2			4								
Fines (Silt/Clay)	—	—	20.1			1.8			45.9			11.5			51.7			0.5			1.2		
Metals in mg/kg DW																							
Arsenic	57	93	10			7			21			9			12			0.6	U	U			
Cadmium	5.1	6.7	0.03	U	U	0.03	U	U	0.4			0.03	U	U	0.03	U	U	0.02	U	U			
Chromium	—	—	39.4			27.4			44.2		J	33.5			49.6			24.6					
Copper	390	390	25.1			15.4			53.9			28.9			43			19.3					
Lead	450	530	6			3			10			5			7			3					
Mercury	0.41	0.59	0.006	U	U	0.006	U	U	0.008	U	UJ	0.005	U	UJ	0.007	U	UJ	0.005	U	UJ			
Silver	6.1	6.1	0.15	U	U	0.14	U	U	0.19	U	U	0.16	U	U	0.18	U	U	0.13	U	U			
Zinc	410	960	51			41			72			50			65			41					
Butyltins ug/kg DW																							
Dibutyl Tin Ion	—	—																					
Tributyl Tin Ion	—	—																					
Butyl Tin Ion	—	—																					
LPAH in ug/kg DW																							
Naphthalene	2100	2100	8.60	U	U	8.60	U	U	8.50	U	U	8.30	U	U	8.40	U	U	8.30	U	U			
Acenaphthylene	1300	1300	8.60	U	U	8.50	U	U	8.50	U	U	8.20	U	U	8.40	U	U	8.30	U	U			
Acenaphthene	500	500	8.20	U	U	8.10	U	U	8.10	U	U	7.80	U	U	8.00	U	U	7.90	U	U			
Fluorene	540	540	8.90	U	U	8.80	U	U	8.80	U	U	8.50	U	U	8.70	U	U	8.60	U	U			
Phenanthrene	1500	1500	10.00	J	J	8.30	U	U	10.00	J	J	8.00	U	U	62.00			8.10	U	U			
Anthracene	960	960	7.70	U	U	7.60	U	U	7.60	U	U	7.40	U	U	7.50	U	U	7.40	U	U			
1-Methylnaphthalene	—	—	7.20	U	U	7.10	U	U	7.10	U	U	6.80	U	U	7.00	U	U	6.90	U	U			
2-Methylnaphthalene	670	670	8.20	U	U	8.10	U	U	8.10	U	U	7.80	U	U	8.00	U	U	7.90	U	U			
Total LPAH	5200	5200	10.00	J	J	8.80	U	U	10.00	J	J	8.50	U	U	62.00			8.60	U	U			
HPAH in ug/kg DW																							
Fluoranthene	1700	2500	21.00			7.80	U	U	17.00	J	J	7.50	U	U	60.00			7.60	U	U			
Pyrene	2600	3300	18.00	J	J	7.70	U	U	10.00	J	J	7.40	U	U	49.00			7.40	U	U			
Benzo(a)anthracene	1300	1600	10.00	J	J	5.80	U	U	5.80	U	U	5.60	U	U	5.70	U	U	5.70	U	U			
Chrysene	1400	2800	22.00			6.60	U	U	6.50	U	U	6.30	U	U	25.00			6.40	U	U			
Benzo(b)fluoranthene	—	—	10.00	J	J	9.40	U	U	9.40	U	U	9.10	U	U	22.00			9.10	U	U			
Benzo(k)fluoranthene	—	—	12.00	J	J	9.10	U	U	9.10	U	U	8.80	U	U	9.00	U	U	8.90	U	U			
Benzofluoranthenes	3200	3600	22.00	J	J	9.40	U	U	9.40	U	U	9.10	U	U	9.00	U	U	9.10	U	U			
Benzo(a)pyrene	1600	1600	8.10	U	U	8.10	U	U	8.00	U	U	7.80	U	U	7.90	U	U	7.80	U	U			
Indeno(1,2,3-cd)pyrene	600	690	8.60	U	U	8.50	U	U	8.50	U	U	8.20	U	U	8.30	U	U	8.30	U	U			
Dibenz(a,h)anthracene	230	230	8.50	U	U	8.40	U	U	8.40	U	U	8.10	U	U	8.30	U	U	8.20	U	U			
Benzo(g,h,i)perylene	670	720	6.70	U	U	6.70	U	U	6.60	U	U	6.40	U	U	6.60	U	U	6.50	U	U			
Retene	12000	12000																					
Total HPAH			93.00	J	J	9.40	U	U	27.00	J	J	9.10	U	U	156.00			9.10	U	U			
Chlorinated Aromatics in ug/kg DW																							
1,3-Dichlorobenzene	—	—	7.40	U	U	7.30	U	U	7.30	U	U	7.10	U	U	7.20	U	U	7.10	U	U			
1,4-Dichlorobenzene	110	110	7.30	U	U	7.30	U	U	7.20	U	U	7.00	U	U	7.10	U	U	7.10	U	U			
1,2-Dichlorobenzene	35	50	7.80	U	U	7.80	U	U	7.70	U	U	7.50	U	U	7.60	U	U	7.60	U	U			
1,2,4-Trichlorobenzene	31	51	9.00	U	U	9.00	U	U	8.90	U	U	8.60	U	U	8.80	U	U	8.70	U	U			
Hexachlorobenzene	22	70	8.00	U	U	7.90	U	U	7.90	U	U	7.60	U	U	7.80	U	U	7.70	U	U			
Phthalate Esters in ug/kg DW																							
Dimethylphthalate	71	160	7.70	U	U	7.70	U	U	7.60	U	U	7.40	U	U	7.50	U	U	7.40	U	U			
Diethylphthalate	200	1200	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U			
Di-n-Butylphthalate	1400	5100	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U			
Butylbenzylphthalate	63	900	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U			
bis(2-Ethylhexyl)phthalate	1300	3100	14.00	J	J	11.00	U	U	11.00	U	U	10.00	U	U	30.00			11.00	U	U			
Di-n-Octylphthalate	6200	6200	8.30	U	U	8.20	U	U	8.20	U	U	7.90	U	U	8.10	U	U	8.00	U	U			
Phenols in ug/kg DW																							
Phenol	420	1200	14	U	U	14	U	U	13	U	U	13	U	U	13	U	U	13	U	U			
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U			
4-Methylphenol	670	670	130			13	U	U	18	J	J	12	U	U	12	U	U	12	U	U			
2,4-Dimethylphenol	29	29	15	U	U	15	U	U	15	U	U	14	U	U	14	U	U	14	U	U			
Pentachlorophenol	360	690	47	U	U	47	U	U	47	U	U	45	U	U	46	U	U	46	U	U			

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-34B			A2-34			A2-36			A2-37B			A2-38B			A2-38			A2-38-D		
Collection Date	**SQS**	**CSL**	**08/11/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/04/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**
Guaiacols and Resins in ug/kg DW																							
Guaiacol	–	–							20	U	U												
4,5-Dichloroguaiacol	–	–							20	U	U												
4,5,6-Trichloroguaiacol	–	–							20	U	U												
3,4,5-Trichloroguaiacol	–	–							20	U	U												
Tetrachloroguaiacol	–	–							20	U	U												
Pimaric Acid	–	–							99	U	U												
Isopimaric Acid	–	–							99	U	U												
Dehydroabietic Acid	–	–							260														
Abietic Acid	–	–							99	U	U												
Miscellaneous Extractables in ug/kg DW																							
Benzyl Alcohol	57	73	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U			
Benzoic Acid	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U			
Dibenzofuran	540	540	7.50	U	U	7.50	U	U	7.40	U	U	7.20	U	U	7.30	U	U	7.30	U	U			
Hexachlorobutadiene	11	120	8.10	U	U	8.00	U	U	8.00	U	U	7.70	U	U	7.90	U	U	7.80	U	U			
N-Nitrosodiphenylamine	28	40	8.60	U	U	8.60	U	U	8.50	U	U	8.30	U	U	8.40	U	U	8.30	U	U			
PCBs in ug/kg DW																							
Aroclor-1221	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Aroclor-1232	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Aroclor-1242	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Aroclor-1016	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Aroclor-1248	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Aroclor-1254	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Aroclor-1260	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Aroclor-1262	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Aroclor-1268	–	–	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Total PCBs	130	1000	6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.50	U	U			
Pesticides in ug/kg DW																							
4,4'-DDT	–	–										0.86	U	U									
4,4'-DDE	–	–										1.10	U	U									
4,4'-DDD	–	–										1.20	U	U									
gamma-BHC (Lindane)	–	–										0.48	U	U									
Heptachlor	–	–										0.39	U	U									
Aldrin	–	–										0.47	U	U									
Dieldrin	–	–										0.82	U	U									
gamma Chlordane	–	–										0.90	U	U									
alpha Chlordane	–	–										0.36	U	U									
oxy Chlordane	–	–										0.80	U	U									
cis-Nonachlor	–	–										1.00	U	U									
trans-Nonachlor	–	–										0.93	U	U									
Dioxin/Furan pg TEQ/g DW																							
2,3,7,8-TCDD	–	–										0.0388	KJ	U									
1,2,3,7,8-PECDD	–	–										0.101	U	U									
1,2,3,4,7,8-HXCDD	–	–										0.147	U	U									
1,2,3,6,7,8-HXCDD	–	–										0.14	U	U									
1,2,3,7,8,9-HXCDD	–	–										0.222	J	J									
1,2,3,4,6,7,8-HPCDD	–	–										2.52	J	J									
OCDD	–	–										28											
2,3,7,8-TCDF	–	–										0.0388	U	U									
1,2,3,7,8-PECDF	–	–										0.0737	U	U									
2,3,4,7,8-PECDF	–	–										0.0745	U	U									
1,2,3,4,7,8-HXCDF	–	–										0.075	J	J									
1,2,3,6,7,8-HXCDF	–	–										0.0931	U	U									
1,2,3,7,8,9-HXCDF	–	–										0.0722	U	U									
2,3,4,6,7,8-HXCDF	–	–										0.0931	U	U									
1,2,3,4,6,7,8-HPCDF	–	–										0.282	J	J									
1,2,3,4,7,8,9-HPCDF	–	–										0.0683	U	U									
OCDF	–	–										0.712	J	J									
TEQ 0 DL	–	–										0.0663											
TEQ 1/2 DL	–	–										0.178											

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-38-T			A2-42			A2-43B			A2-46			A3-05B			A3-05D			A3-05		
Collection Date	**SQS**	**CSL**	**08/06/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**	**08/06/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**
Conventionals																							
Total Organic Carbon (% DW)	—	—	0.121			0.105			0.135			1.84			1.84			0.826			0.309		
TVS (% DW)	—	—	0.96			1.03			1			1.59			5.03			3.48			1.81		
Total Solids (% DW)	—	—	80.1			93.5			80			70.6			56.1			62.3			71.3		
Preserved Total Solids (% DW)	—	—	73.5			75.6			75.1			71.1			58.1			59.7			71.1		
Ammonia (mg-N/kg DW)	—	—	0.03	U	U	0.03	U	U	0.03	U	U	1.35			6.82			5.25			2.13		
Total Sulfides (mg/kg DW)	—	—	0.01	U	U	2.23			0.01	U	U	0.01	U	U	37.8			0.01	U	U	0.01	U	U
Grain Size																							
Phi Scale <-1	—	—	0	U	U	3.5			0	U	U	0.5			0.5			1.9			0.2		
Phi Scale -1 to 0	—	—	0.4			10.3			0.3			0.4			1			0.9			1.2		
Phi Scale 0 to 1	—	—	29			60.9			19.8			1.6			1.2			1.5			7.7		
Phi Scale 1 to 2	—	—	64.9			24.4			69.6			44.8			1.6			5.3			25.1		
Phi Scale 2 to 3	—	—	3.6			0.2			7.5			41.6			6.8			34.5			48.5		
Phi Scale 3 to 4	—	—	0.2			0.1			0.5			5.5			24.6			37.6			9.4		
Phi Scale 4 to 5	—	—										1.4			23.1			7.2			1.6		
Phi Scale 5 to 6	—	—										1.2			19			2.8			1.5		
Phi Scale 6 to 7	—	—										1			8.7			2.1			1.2		
Phi Scale 7 to 8	—	—										0.6			4			1.5			1		
Phi Scale 8 to 9	—	—										0.4			2.3			1			0.5		
Phi Scale 9 to 10	—	—										0.2			2			0.9			0.6		
Phi Scale >10	—	—										0.8			5.3			2.7			1.5		
Fines (Silt/Clay)	—	—	1.9			0.8			2.3			5.6			64.4			18.2			8		
Metals in mg/kg DW																							
Arsenic	57	93				6			7			8									0.7	U	U
Cadmium	5.1	6.7				0.02	U	U	0.02	U	U	0.03	U	U							0.03	U	U
Chromium	—	—				19.8			31.8			31									33.9		
Copper	390	390				19.8			21.3			19.2									20.7		
Lead	450	530				3			3			4									4		
Mercury	0.41	0.59				0.005	U	UJ	0.005	U	UJ	0.006	U	U							0.007	U	UJ
Silver	6.1	6.1				0.12	U	U	0.13	U	U	0.15	U	U							0.16	U	U
Zinc	410	960				39			43			51									50		
Butyltins ug/kg DW																							
Dibutyl Tin Ion	—	—																			5.4	U	U
Tributyl Tin Ion	—	—																			3.6	U	U
Butyl Tin Ion	—	—																			3.8	U	U
LPAH in ug/kg DW																							
Naphthalene	2100	2100				8.30	U	U	8.40	U	U	8.60	U	U							8.50	U	U
Acenaphthylene	1300	1300				8.30	U	U	8.30	U	U	8.60	U	U							8.50	U	U
Acenaphthene	500	500				7.80	U	U	7.90	U	U	8.10	U	U							8.10	U	U
Fluorene	540	540				8.50	U	U	8.60	U	U	8.90	U	U							8.80	U	U
Phenanthrene	1500	1500				8.00	U	U	8.10	U	U	8.30	U	U							8.20	U	U
Anthracene	960	960				7.40	U	U	7.50	U	U	7.70	U	U							7.60	U	U
1-Methylnaphthalene	—	—				6.90	U	U	6.90	U	U	7.10	U	U							7.10	U	U
2-Methylnaphthalene	670	670				7.80	U	U	7.90	U	U	8.10	U	U							8.00	U	U
Total LPAH	5200	5200				8.50	U	U	8.60	U	U	8.90	U	U							8.80	U	U
HPAH in ug/kg DW																							
Fluoranthene	1700	2500				7.60	U	U	7.60	U	U	7.90	U	U							7.80	U	U
Pyrene	2600	3300				7.40	U	U	7.50	U	U	7.70	U	U							7.60	U	U
Benzo(a)anthracene	1300	1600				5.60	U	U	5.70	U	U	5.90	U	U							5.80	U	U
Chrysene	1400	2800				6.30	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Benzo(b)fluoranthene	—	—				9.10	U	U	9.20	U	U	9.40	U	U							9.30	U	U
Benzo(k)fluoranthene	—	—				8.80	U	U	8.90	U	U	9.20	U	U							9.10	U	U
Benzofluoranthenes	3200	3600				9.10	U	U	9.20	U	U	9.40	U	U							9.30	U	U
Benzo(a)pyrene	1600	1600				7.80	U	U	7.90	U	U	8.10	U	U							8.00	U	U
Indeno(1,2,3-cd)pyrene	600	690				8.20	U	U	8.30	U	U	8.50	U	U							8.40	U	U
Dibenz(a,h)anthracene	230	230				8.20	U	U	8.30	U	U	8.50	U	U							8.40	U	U
Benzo(g,h,i)perylene	670	720				6.50	U	U	6.50	U	U	6.70	U	U							6.60	U	U
Retene	12000	12000																					
Total HPAH						9.10	U	U	9.20	U	U	9.40	U	U							9.30	U	U
Chlorinated Aromatics in ug/kg DW																							
1,3-Dichlorobenzene	—	—				7.10	U	U	7.20	U	U	7.40	U	U							7.30	U	U
1,4-Dichlorobenzene	110	110				7.00	U	U	7.10	U	U	7.30	U	U							7.20	U	U
1,2-Dichlorobenzene	35	50				7.50	U	U	7.60	U	U	7.80	U	U							7.70	U	U
1,2,4-Trichlorobenzene	31	51				8.70	U	U	8.80	U	U	9.00	U	U							8.90	U	U
Hexachlorobenzene	22	70				7.70	U	U	7.70	U	U	8.00	U	U							7.90	U	U
Phthalate Esters in ug/kg DW																							
Dimethylphthalate	71	160				7.40	U	U	7.50	U	U	7.70	U	U							7.60	U	U
Diethylphthalate	200	1200				16.00	U	U	16.00	U	U	20.00	J	J							16.00	U	U
Di-n-Butylphthalate	1400	5100				12.00	U	U	12.00	U	U	12.00	U	U							12.00	U	U
Butylbenzylphthalate	63	900				11.00	U	U	11.00	U	U	11.00	U	U							11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100				10.00	U	U	11.00	U	U	11.00	U	U							11.00	U	U
Di-n-Octylphthalate	6200	6200				8.00	U	U	8.00	U	U	8.30	U	U							8.20	U	U
Phenols in ug/kg DW																							
Phenol	420	1200				13	U	U	13	U	U	14	U	U							13	U	U
2-Methylphenol	63	63				14	U	U	14	U	U	14	U	U							14	U	U
4-Methylphenol	670	670				12	U	U	12	U	U	13	U	U							13	U	U
2,4-Dimethylphenol	29	29				14	U	U	14	U	U	15	U	U							15	U	U
Pentachlorophenol	360	690				45	U	U	46	U	U	47	U	U							47	U	U

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A2-38-T			A2-42			A2-43B			A2-46			A3-05B			A3-05D			A3-05		
Collection Date	SQS	CSL	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/06/2008	LQ	VQ	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ	08/11/2008	LQ	VQ	08/05/2008	LQ	VQ
Guaiacols and Resins in ug/kg DW																							
Guaiacol	–	–																			20	U	U
4,5-Dichloroguaiacol	–	–																			20	U	U
4,5,6-Trichloroguaiacol	–	–																			20	U	U
3,4,5-Trichloroguaiacol	–	–																			20	U	U
Tetrachloroguaiacol	–	–																			20	U	U
Pimaric Acid	–	–																			98	U	U
Isopimaric Acid	–	–																			98	U	U
Dehydroabietic Acid	–	–																			120		
Abietic Acid	–	–																			98	U	UJ
Miscellaneous Extractables in ug/kg DW																							
Benzyl Alcohol	57	73				14	U	U	14	U	U	14		U							14	U	U
Benzoic Acid	650	650				110	U	U	110	U	U	110	U	U							110	U	U
Dibenzofuran	540	540				7.20	U	U	7.30	U	U	7.50	U	U							7.40	U	U
Hexachlorobutadiene	11	120				7.70	U	U	7.80	U	U	8.00	U	U							8.00	U	U
N-Nitrosodiphenylamine	28	40				8.30	U	U	8.40	U	U	8.60	U	U							8.50	U	U
PCBs in ug/kg DW																							
Aroclor-1221	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Aroclor-1232	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Aroclor-1242	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Aroclor-1016	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Aroclor-1248	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Aroclor-1254	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Aroclor-1260	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Aroclor-1262	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Aroclor-1268	–	–				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Total PCBs	130	1000				6.40	U	U	6.40	U	U	6.60	U	U							6.50	U	U
Pesticides in ug/kg DW																							
4,4'-DDT	–	–				0.86	U	U															
4,4'-DDE	–	–				1.10	U	U															
4,4'-DDD	–	–				1.20	U	U															
gamma-BHC (Lindane)	–	–				0.48	U	U															
Heptachlor	–	–				0.39	U	U															
Aldrin	–	–				0.46	U	U															
Dieldrin	–	–				0.82	U	U															
gamma Chlordane	–	–				0.90	U	U															
alpha Chlordane	–	–				0.36	U	U															
oxy Chlordane	–	–				0.79	U	U															
cis-Nonachlor	–	–				1.00	U	U															
trans-Nonachlor	–	–				0.92	U	U															
Dioxin/Furan pg TEQ/g DW																							
2,3,7,8-TCDD	–	–																			0.0303	KJ	U
1,2,3,7,8-PECDD	–	–																			0.0787	U	U
1,2,3,4,7,8-HXCDD	–	–																			0.115	U	U
1,2,3,6,7,8-HXCDD	–	–																			0.174	J	J
1,2,3,7,8,9-HXCDD	–	–																			0.2	J	J
1,2,3,4,6,7,8-HPCDD	–	–																			2.87	J	J
OCDD	–	–																			25.6		
2,3,7,8-TCDF	–	–																			0.0303	KJ	U
1,2,3,7,8-PECDF	–	–																			0.0575	U	U
2,3,4,7,8-PECDF	–	–																			0.06	J	J
1,2,3,4,7,8-HXCDF	–	–																			0.0551	KJ	U
1,2,3,6,7,8-HXCDF	–	–																			0.0727	U	U
1,2,3,7,8,9-HXCDF	–	–																			0.0563	U	U
2,3,4,6,7,8-HXCDF	–	–																			0.0727	U	U
1,2,3,4,6,7,8-HPCDF	–	–																			0.428	J	J
1,2,3,4,7,8,9-HPCDF	–	–																			0.0533	U	U
OCDF	–	–																			1.11	J	J
TEQ 0 DL	–	–																			0.0964		
TEQ 1/2 DL	–	–																			0.172		

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A3-06B			A3-07B			A3-09			A3-11			A3-13			A4-04			A4-04-D	
Collection Date	**SQS**	**CSL**	**10/08/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/07/2008**	**LQ**	**VQ**	**08/07/2008**	**LQ**	**VQ**	**08/07/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**
Conventionals																						
Total Organic Carbon (% DW)	—	—	0.907			1.17			0.212			0.126			0.213			0.27				
TVS (% DW)	—	—	3.93			4.77			1.27			1.17			1.05			1.23				
Total Solids (% DW)	—	—	63.1			61			70.5			71.5			77			76				
Preserved Total Solids (% DW)	—	—				53.7			65.1			72.2			75.2			77.6				
Ammonia (mg-N/kg DW)	—	—	4.96			9.44			0.03	U	U	0.03	U	U	0.03	U	U	0.55				
Total Sulfides (mg/kg DW)	—	—	8.8	U		46.7			0.01	U	U	0.01	U	U	0.01	U	U	0.01	U	U		
Grain Size																						
Phi Scale <-1	—	—	0.1	U		0.2			0	U	U	0	U	U	1.8			0.4				
Phi Scale -1 to 0	—	—	0.8			0.5			0.2			0	U	U	6			5.8				
Phi Scale 0 to 1	—	—	0.7			1.1			1.2			0.2			20.6			31.6				
Phi Scale 1 to 2	—	—	1.2			3.4			39.5			24.4			57			46.8				
Phi Scale 2 to 3	—	—	8.6			16.1			56.4			73.3			11.7			11.3				
Phi Scale 3 to 4	—	—	37.2			32.5			1.2			1.9			1.1			1.3				
Phi Scale 4 to 5	—	—	21.5			16.5																
Phi Scale 5 to 6	—	—	11			7.9																
Phi Scale 6 to 7	—	—	6.5			6.5																
Phi Scale 7 to 8	—	—	3.6			4.3																
Phi Scale 8 to 9	—	—	2.6			2.8																
Phi Scale 9 to 10	—	—	2.4			2.3																
Phi Scale >10	—	—	3.9			5.7																
Fines (Silt/Clay)	—	—	51.4			46.1			1.6			0.2			1.9			2.9				
Metals in mg/kg DW																						
Arsenic	57	93	10			13			7			8			7			8				
Cadmium	5.1	6.7	0.032	U		0.3			0.03	U	U	0.03	U	U	0.02	U	U	0.03	U	U		
Chromium	—	—	45.4			50.2			27.7			32.6			29.1			34.6				
Copper	390	390	39			49.4			20.3			22.7			18.8			17.3				
Lead	450	530	7			8			5			4			3			4				
Mercury	0.41	0.59	0.07			0.008	U	UJ	0.005	U	U	0.005	U	U	0.006	U	U	0.005	U	UJ		
Silver	6.1	6.1	0.174	U		0.17	U	U	0.15	U	U	0.15	U	U	0.14	U	U	0.14	U	U		
Zinc	410	960	67			73			44			47			42			48				
Butyltins ug/kg DW																						
Dibutyl Tin Ion	—	—				5.2	U	U							5.3	U	U					
Tributyl Tin Ion	—	—				3.5	U	U							3.5	U	U					
Butyl Tin Ion	—	—				3.6	U	U							3.6	U	U					
LPAH in ug/kg DW																						
Naphthalene	2100	2100	8.50	U		8.30	U	U	8.30	U	U	8.30	U	U	8.30	U	U	8.40	U	U	8.40	U
Acenaphthylene	1300	1300	8.50	U		8.30	U	U	8.30	U	U	8.30	U	U	8.30	U	U	8.40	U	U	8.40	U
Acenaphthene	500	500	8.10	U		7.90	U	U	7.80	U	U	7.80	U	U	7.90	U	U	8.00	U	U	8.00	U
Fluorene	540	540	8.80	U		8.60	U	U	8.50	U	U	8.50	U	U	8.60	U	U	8.70	U	U	8.70	U
Phenanthrene	1500	1500	8.30	U		27.00			8.00	U	U	8.00	U	U	8.00	U	U	8.10	U	U	8.20	U
Anthracene	960	960	7.60	U		7.40	U	U	7.40	U	U	7.40	U	U	7.40	U	U	7.50	U	U	7.50	U
1-Methylnaphthalene	—	—	7.10	U		6.90	U	U	6.90	U	U	6.90	U	U	6.90	U	U	7.00	U	U	7.00	U
2-Methylnaphthalene	670	670	8.10	U		7.90	U	U	7.80	U	U	7.80	U	U	7.90	U	U	8.00	U	U	8.00	U
Total LPAH	5200	5200	8.80	U		27.00			8.50	U	U	8.50	U	U	8.60	U	U	8.70	U	U	8.70	U
HPAH in ug/kg DW																						
Fluoranthene	1700	2500	7.80	U		59.00			7.60	U	U	7.60	U	U	7.60	U	U	7.70	U	U	7.70	U
Pyrene	2600	3300	7.60	U		48.00			7.40	U	U	7.40	U	U	7.40	U	U	7.50	U	U	7.60	U
Benzo(a)anthracene	1300	1600	5.80	U		5.70	U	U	5.60	U	U	5.60	U	U	5.70	U	U	5.70	U	U	5.80	U
Chrysene	1400	2800	6.50	U		25.00			6.30	U	U	6.30	U	U	6.40	U	U	6.40	U	U	6.50	U
Benzo(b)fluoranthene	—	—	9.40	U		9.10	U	U	9.10	U	U	9.10	U	U	9.10	U	U	9.20	U	U	9.30	U
Benzo(k)fluoranthene	—	—	9.10	U		8.90	U	U	8.80	U	U	8.80	U	U	8.90	U	U	9.00	U	U	9.00	U
Benzofluoranthenes	3200	3600	9.40	U		9.10	U	U	9.10	U	U	9.10	U	U	9.10	U	U	9.20	U	U	9.30	U
Benzo(a)pyrene	1600	1600	8.00	U		7.80	U	U	7.80	U	U	7.80	U	U	7.80	U	U	7.90	U	U	7.90	U
Indeno(1,2,3-cd)pyrene	600	690	8.50	U		8.20	U	U	8.20	U	U	8.20	U	U	8.20	U	U	8.30	U	U	8.40	U
Dibenz(a,h)anthracene	230	230	8.40	U		8.20	U	U	8.20	U	U	8.20	U	U	8.20	U	U	8.30	U	U	8.30	U
Benzo(g,h,i)perylene	670	720	6.60	U		6.50	U	U	6.40	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.60	U
Retene	12000	12000																				
Total HPAH			9.40	U		132.00	U		9.10	U	U	9.10	U	U	9.10	U	U	9.20	U	U	9.30	U
Chlorinated Aromatics in ug/kg DW																						
1,3-Dichlorobenzene	—	—	7.30	U		7.10	U	U	7.10	U	U	7.10	U	U	7.10	U	U	7.20	U	U	7.20	U
1,4-Dichlorobenzene	110	110	7.20	U		7.10	U	U	7.00	U	U	7.00	U	U	7.10	U	U	7.10	U	U	7.20	U
1,2-Dichlorobenzene	35	50	7.70	U		7.60	U	U	7.50	U	U	7.50	U	U	7.60	U	U	7.60	U	U	7.70	U
1,2,4-Trichlorobenzene	31	51	8.90	U		8.70	U	U	8.70	U	U	8.70	U	U	8.70	U	U	8.80	U	U	8.80	U
Hexachlorobenzene	22	70	7.90	U		7.70	U	U	7.60	U	U	7.70	U	U	7.70	U	U	7.80	U	U	7.80	U
Phthalate Esters in ug/kg DW																						
Dimethylphthalate	71	160	7.60	U		7.40	U	U	7.40	U	U	7.40	U	U	7.40	U	U	7.50	U	U	7.60	U
Diethylphthalate	200	1200	16.00	U		16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U
Di-n-Butylphthalate	1400	5100	12.00	U		12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U
Butylbenzylphthalate	63	900	11.00	U		11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U
bis(2-Ethylhexyl)phthalate	1300	3100	11.00	U		20.00			10.00	U	U	10.00	U	U	11.00	U	U	11.00	U	U	11.00	U
Di-n-Octylphthalate	6200	6200	8.20	U		8.00	U	U	8.00	U	U	8.00	U	U	8.00	U	U	8.10	U	U	8.10	U
Phenols in ug/kg DW																						
Phenol	420	1200	37			13	U	U	13	U	U	13	U	U	13	U	U	13	U	U	13	U
2-Methylphenol	63	63	14	U		14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U
4-Methylphenol	670	670	13	U		12	U	U	12	U	U	12	U	U	12	U	U	12	U	U	12	U
2,4-Dimethylphenol	29	29	15	U		14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U
Pentachlorophenol	360	690	47	U		46	U	U	45	U	U	45	U	U	46	U	U	46	U	U	46	U

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry	A3-06B			A3-07B			A3-09			A3-11			A3-13			A4-04			A4-04-D	
Collection Date	**SQS**	**CSL**	**10/08/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/07/2008**	**LQ**	**VQ**	**08/07/2008**	**LQ**	**VQ**	**08/07/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**
Guaiacols and Resins in ug/kg DW																						
Guaiacol	—	—																				
4,5-Dichloroguaiacol	—	—																				
4,5,6-Trichloroguaiacol	—	—																				
3,4,5-Trichloroguaiacol	—	—																				
Tetrachloroguaiacol	—	—																				
Pimaric Acid	—	—																				
Isopimaric Acid	—	—																				
Dehydroabietic Acid	—	—																				
Abietic Acid	—	—																				
Miscellaneous Extractables in ug/kg DW																						
Benzyl Alcohol	57	73	14	UJ	UJ	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U
Benzoic Acid	650	650	110	U		110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U
Dibenzofuran	540	540	7.40	U		7.20	U	U	7.20	U	U	7.20	U	U	7.20	U	U	7.30	U	U	7.40	U
Hexachlorobutadiene	11	120	8.00	U		7.80	U	U	7.70	U	U	7.70	U	U	7.80	U	U	7.90	U	U	7.90	U
N-Nitrosodiphenylamine	28	40	8.50	U		8.30	U	U	8.30	U	U	8.30	U	U	8.30	U	U	8.40	U	U	8.40	U
PCBs in ug/kg DW																						
Aroclor-1221	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Aroclor-1232	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Aroclor-1242	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Aroclor-1016	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Aroclor-1248	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Aroclor-1254	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Aroclor-1260	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Aroclor-1262	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Aroclor-1268	—	—	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Total PCBs	130	1000	6.60	U		6.50	U	U	6.50	U	U	6.50	U	U	6.40	U	U	6.50	U	U	6.60	U
Pesticides in ug/kg DW																						
4,4'-DDT	—	—							0.86	U	U	0.86	U	U								
4,4'-DDE	—	—							1.10	U	U	1.10	U	U								
4,4'-DDD	—	—							1.20	U	U	1.20	U	U								
gamma-BHC (Lindane)	—	—							0.48	U	U	0.48	U	U								
Heptachlor	—	—							0.39	U	U	0.39	U	U								
Aldrin	—	—							0.46	U	U	0.46	U	U								
Dieldrin	—	—							0.82	U	U	0.82	U	U								
gamma Chlordane	—	—							0.90	U	U	0.90	U	U								
alpha Chlordane	—	—							0.36	U	U	0.36	U	U								
oxy Chlordane	—	—							0.79	U	U	0.80	U	U								
cis-Nonachlor	—	—							1.00	U	U	1.00	U	U								
trans-Nonachlor	—	—							0.92	U	U	0.92	U	U								
Dioxin/Furan pg TEQ/g DW																						
2,3,7,8-TCDD	—	—																				
1,2,3,7,8-PECDD	—	—																				
1,2,3,4,7,8-HXCDD	—	—																				
1,2,3,6,7,8-HXCDD	—	—																				
1,2,3,7,8,9-HXCDD	—	—																				
1,2,3,4,6,7,8-HPCDD	—	—																				
OCDD	—	—																				
2,3,7,8-TCDF	—	—																				
1,2,3,7,8-PECDF	—	—																				
2,3,4,7,8-PECDF	—	—																				
1,2,3,4,7,8-HXCDF	—	—																				
1,2,3,6,7,8-HXCDF	—	—																				
1,2,3,7,8,9-HXCDF	—	—																				
2,3,4,6,7,8-HXCDF	—	—																				
1,2,3,4,6,7,8-HPCDF	—	—																				
1,2,3,4,7,8,9-HPCDF	—	—																				
OCDF	—	—																				
TEQ 0 DL	—	—																				
TEQ 1/2 DL	—	—																				

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry		A4-05			A4-05-D			A4-05-T			A4-07			A4-08B			A4-09			CR-20/40-S
Collection Date	**SQS**	**CSL**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**10/09/2008**
Conventionals																						
Total Organic Carbon (% DW)	—	—		0.203									0.792			0.739			1.09			0.596
TVS (% DW)	—	—		1.17									2.98			5.37			4.88			2.55
Total Solids (% DW)	—	—		76.3									66.6			51			54			63
Preserved Total Solids (% DW)	—	—		75.8									61.5			56			54.8			
Ammonia (mg-N/kg DW)	—	—		0.43									4.24			10			5.62			9.49
Total Sulfides (mg/kg DW)	—	—		0.01	U	U							0.01	U	U	61.6			48			67
Grain Size																						
Phi Scale <-1	—	—		1.1									0	U	U	1			0.2			0.1
Phi Scale -1 to 0	—	—		9.1									0.1			1.1			0.5			0.1
Phi Scale 0 to 1	—	—		30.4									0.4			1.2			0.7			0.4
Phi Scale 1 to 2	—	—		49.2									1.8			1.8			1.3			0.8
Phi Scale 2 to 3	—	—		8									26.6			4.9			4.1			2.9
Phi Scale 3 to 4	—	—		0.2									45.2			34.7			30.2			22.7
Phi Scale 4 to 5	—	—											9.5			22.6			23			39.1
Phi Scale 5 to 6	—	—											4.4			13.1			14.7			18.6
Phi Scale 6 to 7	—	—											3.1			5.9			8.9			5.9
Phi Scale 7 to 8	—	—											2.1			3.9			4.8			2.2
Phi Scale 8 to 9	—	—											1.4			3.1			3.1			1.4
Phi Scale 9 to 10	—	—											1.5			1.9			2.9			1.4
Phi Scale >10	—	—											3.8			4.8			5.5			4.6
Fines (Silt/Clay)	—	—		2									25.8			55.2			62.9			73.2
Metals in mg/kg DW																						
Arsenic	57	93		9			8			9			10			10			13			
Cadmium	5.1	6.7		0.02	U	U	0.02	U	U	0.02	U	U	0.03	U	U	0.04	U	U	0.03	U	U	
Chromium	—	—		27			27.8			26.5			41.5			46			43.9			
Copper	390	390		17.2			16.1			17.6			27			40.6			39.1			
Lead	450	530		4			3			4			6			9			8			
Mercury	0.41	0.59		0.006	U	UJ	0.005	U	UJ	0.006	U	UJ	0.006	U	UJ	0.009	U	U	0.07			
Silver	6.1	6.1		0.14	U	U	0.13	U	U	0.13	U	U	0.17	U	U	0.21	U	U	0.19	U	U	
Zinc	410	960		43			40			41			59			74			69			
Butyltins ug/kg DW																						
Dibutyl Tin Ion	—	—											5.5	U	U							
Tributyl Tin Ion	—	—											3.7	U	U							
Butyl Tin Ion	—	—											3.8	U	U							
LPAH in ug/kg DW																						
Naphthalene	2100	2100	U	8.40	U	U							8.40	U	U	8.50	U	U	8.60	U	U	
Acenaphthylene	1300	1300	U	8.40	U	U							8.40	U	U	8.50	U	U	8.60	U	U	
Acenaphthene	500	500	U	8.00	U	U							8.00	U	U	8.10	U	U	8.20	U	U	
Fluorene	540	540	U	8.70	U	U							8.70	U	U	8.80	U	U	8.90	U	U	
Phenanthrene	1500	1500	U	8.20	U	U							23.00			17.00	J	J	8.40	U	U	
Anthracene	960	960	U	7.50	U	U							7.50	U	U	7.60	U	U	7.70	U	U	
1-Methylnaphthalene	—	—	U	7.00	U	U							7.00	U	U	7.10	U	U	7.20	U	U	
2-Methylnaphthalene	670	670	U	8.00	U	U							8.00	U	U	8.10	U	U	8.20	U	U	
Total LPAH	5200	5200	U	8.70	U	U							23.00			17.00	J	J	8.90	U	U	
HPAH in ug/kg DW																						
Fluoranthene	1700	2500	U	7.70	U	U							45.00			52.00			12.00	J	J	
Pyrene	2600	3300	U	7.50	U	U							32.00			40.00			10.00	J	J	
Benzo(a)anthracene	1300	1600	U	5.80	U	U							5.80	U	U	17.00	J	J	5.90	U	U	
Chrysene	1400	2800	U	6.50	U	U							24.00			39.00			6.60	U	U	
Benzo(b)fluoranthene	—	—	U	9.20	U	U							9.30	U	U	15.00	J	J	9.50	U	U	
Benzo(k)fluoranthene	—	—	U	9.00	U	U							9.00	U	U	19.00	J	J	9.20	U	U	
Benzofluoranthenes	3200	3600	U	9.20	U	U							9.30	U	U	19.00	J	J	9.50	U	U	
Benzo(a)pyrene	1600	1600	U	7.90	U	U							7.90	U	U	10.00	J	J	8.10	U	U	
Indeno(1,2,3-cd)pyrene	600	690	U	8.40	U	U							8.40	U	U	8.40	U	U	8.60	U	U	
Dibenz(a,h)anthracene	230	230	U	8.30	U	U							8.30	U	U	8.40	U	U	8.50	U	U	
Benzo(g,h,i)perylene	670	720	U	6.60	U	U							6.60	U	U	6.60	U	U	6.70	U	U	
Retene	12000	12000																				
Total HPAH			U	9.20	U	U							101.00			131.00	J		22.00	J		
Chlorinated Aromatics in ug/kg DW																						
1,3-Dichlorobenzene	—	—	U	7.20	U	U							7.20	U	U	7.30	U	U	7.40	U	U	
1,4-Dichlorobenzene	110	110	U	7.20	U	U							7.20	U	U	7.20	U	U	7.30	U	U	
1,2-Dichlorobenzene	35	50	U	7.70	U	U							7.70	U	U	7.70	U	U	7.80	U	U	
1,2,4-Trichlorobenzene	31	51	U	8.80	U	U							8.80	U	U	8.90	U	U	9.00	U	U	
Hexachlorobenzene	22	70	U	7.80	U	U							7.80	U	U	7.90	U	U	8.00	U	U	
Phthalate Esters in ug/kg DW																						
Dimethylphthalate	71	160	U	7.50	U	U							7.60	U	U	7.60	U	U	7.70	U	U	
Diethylphthalate	200	1200	U	16.00	U	U							16.00	U	U	16.00	U	U	16.00	U	U	
Di-n-Butylphthalate	1400	5100	U	12.00	U	U							12.00	U	U	12.00	U	U	12.00	U	U	
Butylbenzylphthalate	63	900	U	11.00	U	U							11.00	U	U	11.00	U	U	11.00	U	U	
bis(2-Ethylhexyl)phthalate	1300	3100	U	11.00	U	U							11.00	U	U	20.00			12.00	J	J	
Di-n-Octylphthalate	6200	6200	U	8.10	U	U							8.10	U	U	8.20	U	U	8.30	U	U	
Phenols in ug/kg DW																						
Phenol	420	1200	U	13	U	U							13	U	U	13	U	U	14	U	U	
2-Methylphenol	63	63	U	14	U	U							14	U	U	14	U	U	14	U	U	
4-Methylphenol	670	670	U	12	U	U							12	U	U	13	U	U	13	U	U	
2,4-Dimethylphenol	29	29	U	14	U	U							14	U	U	15	U	U	15	U	U	
Pentachlorophenol	360	690	U	46	U	U							46	U	U	47	U	U	47	U	U	

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry		A4-05			A4-05-D			A4-05-T			A4-07			A4-08B			A4-09			CR-20/40-S
Collection Date	**SQS**	**CSL**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/05/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**08/11/2008**	**LQ**	**VQ**	**10/09/2008**
Guaiacols and Resins in ug/kg DW																						
Guaiacol	—	—											20	U	U							
4,5-Dichloroguaiacol	—	—											20	U	U							
4,5,6-Trichloroguaiacol	—	—											20	U	U							
3,4,5-Trichloroguaiacol	—	—											20	U	U							
Tetrachloroguaiacol	—	—											20	U	U							
Pimaric Acid	—	—											98	U	U							
Isopimaric Acid	—	—											120									
Dehydroabietic Acid	—	—											210									
Abietic Acid	—	—											300		J							
Miscellaneous Extractables in ug/kg DW																						
Benzyl Alcohol	57	73	U	14	U	U							14	U	U	14	U	U	14	U	U	
Benzoic Acid	650	650	U	110	U	U							110	U	U	110	U	U	110	U	U	
Dibenzofuran	540	540	U	7.30	U	U							7.40	U	U	7.40	U	U	7.50	U	U	
Hexachlorobutadiene	11	120	U	7.90	U	U							7.90	U	U	8.00	U	U	8.10	U	U	
N-Nitrosodiphenylamine	28	40	U	8.40	U	U							8.40	U	U	8.50	U	U	8.60	U	U	
PCBs in ug/kg DW																						
Aroclor-1221	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Aroclor-1232	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Aroclor-1242	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Aroclor-1016	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Aroclor-1248	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Aroclor-1254	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Aroclor-1260	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Aroclor-1262	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Aroclor-1268	—	—	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Total PCBs	130	1000	U	6.50	U	U							6.50	U	U	6.50	U	U	6.60	U	U	
Pesticides in ug/kg DW																						
4,4'-DDT	—	—											0.87	U	U							
4,4'-DDE	—	—											1.10	U	U							
4,4'-DDD	—	—											1.20	U	U							
gamma-BHC (Lindane)	—	—											0.48	U	U							
Heptachlor	—	—											0.40	U	U							
Aldrin	—	—											0.47	U	U							
Dieldrin	—	—											0.83	U	U							
gamma Chlordane	—	—											0.91	U	U							
alpha Chlordane	—	—											0.36	U	U							
oxy Chlordane	—	—											0.80	U	U							
cis-Nonachlor	—	—											1.00	U	U							
trans-Nonachlor	—	—											0.93	U	U							
Dioxin/Furan pg TEQ/g DW																						
2,3,7,8-TCDD	—	—											0.0473	KJ	U							
1,2,3,7,8-PECDD	—	—											0.228	J	J							
1,2,3,4,7,8-HXCDD	—	—											0.257	J	J							
1,2,3,6,7,8-HXCDD	—	—											0.971	J	J							
1,2,3,7,8,9-HXCDD	—	—											0.891	J	J							
1,2,3,4,6,7,8-HPCDD	—	—											17.7									
OCDD	—	—											157									
2,3,7,8-TCDF	—	—											0.5	J	J							
1,2,3,7,8-PECDF	—	—											0.09	J	J							
2,3,4,7,8-PECDF	—	—											0.0908	KJ	U							
1,2,3,4,7,8-HXCDF	—	—											0.326	J	J							
1,2,3,6,7,8-HXCDF	—	—											0.173	J	J							
1,2,3,7,8,9-HXCDF	—	—											0.088	U	U							
2,3,4,6,7,8-HXCDF	—	—											0.114	KJ	U							
1,2,3,4,6,7,8-HPCDF	—	—											2.79	J	J							
1,2,3,4,7,8,9-HPCDF	—	—											0.213	J	J							
OCDF	—	—											8.49	J	J							
TEQ 0 DL	—	—											0.799									
TEQ 1/2 DL	—	—											0.847									

* Collected on 10/6/08

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry			CR-22S-S			CR-23-S			SB-REF-48			SB-REF-76			CR-20/24-65			CR-23-49		
Collection Date	**SQS**	**CSL**	**LQ**	**VQ**	**10/09/2008**	**LQ**	**VQ**	**10/09/2008**	**LQ**	**VQ**	**11/25/2008**	**LQ**	**VQ**	**11/25/2008**	**LQ**		**11/25/2008**	**LQ**		**11/25/2008**	**LQ**	
Conventionals																						
Total Organic Carbon (% DW)	—	—			0.31			0.573			1.45			3.25			0.635			0.535		
TVS (% DW)	—	—			1.14			2.26			2.93			11.4			2.52			2.32		
Total Solids (% DW)	—	—			71.7			65.9			60.7			9.1			62.9			65.5		
Preserved Total Solids (% DW)	—	—									57.7			16.8			65			65.7		
Ammonia (mg-N/kg DW)	—	—			10.2			7.72			4.39			132			21			8.84		
Total Sulfides (mg/kg DW)	—	—			6.8	U		91			121			1010			123			193		
Grain Size																						
Phi Scale <-1	—	—	U		0.1			0.2			0.2			0.1	U		0.1	U		0.1	U	
Phi Scale -1 to 0	—	—			0.4			0.3			1			0.3			0.1			0.2		
Phi Scale 0 to 1	—	—			5.2			0.4			4.9			1			0.3			0.6		
Phi Scale 1 to 2	—	—			15.2			1.2			27			1.7			0.8			1.6		
Phi Scale 2 to 3	—	—			41.6			7.2			29			3.3			2.2			7		
Phi Scale 3 to 4	—	—			26.6			40.3			12.8			5.1			24.8			38.1		
Phi Scale 4 to 5	—	—			4.9			26.3			5.3		J	5.1		J	40.4		J	28.6		J
Phi Scale 5 to 6	—	—			1.9			11.2			3.3			13			18.1			10.6		
Phi Scale 6 to 7	—	—			1			4.1			3.4			22.7			5.2			4.4		
Phi Scale 7 to 8	—	—			0.6			1.9			2.7			10.8			1.9			1.6		
Phi Scale 8 to 9	—	—			0.6			1.5			2.6			7.2			1.6			1.6		
Phi Scale 9 to 10	—	—			0.7			1.8			2.5			7.3			1.2			2.1		
Phi Scale >10	—	—			1.4			3.8			5.4			22.8			3.5			3.7		
Fines (Silt/Clay)	—	—			11.1			50.4			25.2			88.8			71.9			52.6		
Metals in mg/kg DW																						
Arsenic	57	93																				
Cadmium	5.1	6.7																				
Chromium	—	—																				
Copper	390	390																				
Lead	450	530																				
Mercury	0.41	0.59																				
Silver	6.1	6.1																				
Zinc	410	960																				
Butyltins ug/kg DW																						
Dibutyl Tin Ion	—	—																				
Tributyl Tin Ion	—	—																				
Butyl Tin Ion	—	—																				
LPAH in ug/kg DW																						
Naphthalene	2100	2100																				
Acenaphthylene	1300	1300																				
Acenaphthene	500	500																				
Fluorene	540	540																				
Phenanthrene	1500	1500																				
Anthracene	960	960																				
1-Methylnaphthalene	—	—																				
2-Methylnaphthalene	670	670																				
Total LPAH	5200	5200																				
HPAH in ug/kg DW																						
Fluoranthene	1700	2500																				
Pyrene	2600	3300																				
Benzo(a)anthracene	1300	1600																				
Chrysene	1400	2800																				
Benzo(b)fluoranthene	—	—																				
Benzo(k)fluoranthene	—	—																				
Benzofluoranthenes	3200	3600																				
Benzo(a)pyrene	1600	1600																				
Indeno(1,2,3-cd)pyrene	600	690																				
Dibenz(a,h)anthracene	230	230																				
Benzo(g,h,i)perylene	670	720																				
Retene	12000	12000																				
Total HPAH																						
Chlorinated Aromatics in ug/kg DW																						
1,3-Dichlorobenzene	—	—																				
1,4-Dichlorobenzene	110	110																				
1,2-Dichlorobenzene	35	50																				
1,2,4-Trichlorobenzene	31	51																				
Hexachlorobenzene	22	70																				
Phthalate Esters in ug/kg DW																						
Dimethylphthalate	71	160																				
Diethylphthalate	200	1200																				
Di-n-Butylphthalate	1400	5100																				
Butylbenzylphthalate	63	900																				
bis(2-Ethylhexyl)phthalate	1300	3100																				
Di-n-Octylphthalate	6200	6200																				
Phenols in ug/kg DW																						
Phenol	420	1200																				
2-Methylphenol	63	63																				
4-Methylphenol	670	670																				
2,4-Dimethylphenol	29	29																				
Pentachlorophenol	360	690																				

Table D-2. Surface Sediment Chemistry
(Dry Weight Values)

Sample ID	88 Dry	88 Dry			CR-22S-S			CR-23-S			SB-REF-48			SB-REF-76		CR-20/24-65		CR-23-49	
Collection Date	SQS	CSL	LQ	VQ	10/09/2008	LQ	VQ	10/09/2008	LQ	VQ	11/25/2008	LQ	VQ	11/25/2008	LQ	11/25/2008	LQ	11/25/2008	LQ
Guaiacols and Resins in ug/kg DW																			
Guaiacol	–	–																	
4,5-Dichloroguaiacol	–	–																	
4,5,6-Trichloroguaiacol	–	–																	
3,4,5-Trichloroguaiacol	–	–																	
Tetrachloroguaiacol	–	–																	
Pimaric Acid	–	–																	
Isopimaric Acid	–	–																	
Dehydroabietic Acid	–	–																	
Abietic Acid	–	–																	
Miscellaneous Extractables in ug/kg DW																			
Benzyl Alcohol	57	73																	
Benzoic Acid	650	650																	
Dibenzofuran	540	540																	
Hexachlorobutadiene	11	120																	
N-Nitrosodiphenylamine	28	40																	
PCBs in ug/kg DW																			
Aroclor-1221	–	–																	
Aroclor-1232	–	–																	
Aroclor-1242	–	–																	
Aroclor-1016	–	–																	
Aroclor-1248	–	–																	
Aroclor-1254	–	–																	
Aroclor-1260	–	–																	
Aroclor-1262	–	–																	
Aroclor-1268	–	–																	
Total PCBs	130	1000																	
Pesticides in ug/kg DW																			
4,4'-DDT	–	–																	
4,4'-DDE	–	–																	
4,4'-DDD	–	–																	
gamma-BHC (Lindane)	–	–																	
Heptachlor	–	–																	
Aldrin	–	–																	
Dieldrin	–	–																	
gamma Chlordane	–	–																	
alpha Chlordane	–	–																	
oxy Chlordane	–	–																	
cis-Nonachlor	–	–																	
trans-Nonachlor	–	–																	
Dioxin/Furan pg TEQ/g DW																			
2,3,7,8-TCDD	–	–																	
1,2,3,7,8-PECDD	–	–																	
1,2,3,4,7,8-HXCDD	–	–																	
1,2,3,6,7,8-HXCDD	–	–																	
1,2,3,7,8,9-HXCDD	–	–																	
1,2,3,4,6,7,8-HPCDD	–	–																	
OCDD	–	–																	
2,3,7,8-TCDF	–	–																	
1,2,3,7,8-PECDF	–	–																	
2,3,4,7,8-PECDF	–	–																	
1,2,3,4,7,8-HXCDF	–	–																	
1,2,3,6,7,8-HXCDF	–	–																	
1,2,3,7,8,9-HXCDF	–	–																	
2,3,4,6,7,8-HXCDF	–	–																	
1,2,3,4,6,7,8-HPCDF	–	–																	
1,2,3,4,7,8,9-HPCDF	–	–																	
OCDF	–	–																	
TEQ 0 DL	–	–																	
TEQ 1/2 DL	–	–																	

* Collected on 10/6/08

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A1-03-C1-3			A1-03-C3-5			A1-07-C1-3			A1-07-C3-5			A1-15-C1-3			A1-15-C3-5		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**
Conventionals																				
Total Organic Carbon (% DW)	—	—	5.67			1.58			5.97			4.19			0.324			0.173		
TVS (% DW)	—	—	30.83			7.49			16.44			16.94			1.77			1.8		
Total Solids (% DW)	—	—	34.6			53.9			30.1			33.1			76.2			73.1		
Preserved Total Solids (% DW)	—	—	36.7			45.8			32.5			35.1			71.5			71.6		
Ammonia (mg-N/kg DW)	—	—	208		J	141		J	229		J	273		J	4.57		J	14.8		J
Total Sulfides (mg/kg DW)	—	—	1230		J	401		J	0.01	U	UJ	1510		J	23.5		J	12.8		J
Grain Size																				
Phi Scale <-1			14.4			1.3			4.8			5.6			2.5			0.2		
Phi Scale -1 to 0			6.1			1.1			3.7			3.2			2.2			0.3		
Phi Scale 0 to 1			5.2			0.7			1.4			1.4			5			1		
Phi Scale 1 to 2			5.1			0.7			1.1			1			6.5			2.1		
Phi Scale 2 to 3			4.2			0.9			1.2			1			3.7			3.3		
Phi Scale 3 to 4			5.7		J	5.4		J	5.2			3.9			30.8			30.9		
Phi Scale 4 to 5			5.2			15.7			10.9			4.8			33			38		
Phi Scale 5 to 6			12.8			23.1			14.4			20.1			7.4			11.3		
Phi Scale 6 to 7			11.3			16.2			16.8			19.7			2.7			5.1		
Phi Scale 7 to 8			9.2			9.9			12.3			11.6			1.4			1.5		
Phi Scale 8 to 9			5.9			6.6			7.3			7.1			1			1.7		
Phi Scale 9 to 10			4.3			5.1			7.2			7.2			1.1			0.7		
Phi Scale >10			10.5			13.5			13.6			13.5			2.9			3.8		
Fines (Silt/Clay)			59.4			90.1			82.6			84			49.5			62.1		
Metals in mg/kg DW																				
Arsenic	57	93	1	U	U	13			2	U	U	2	U	U	0.6	U	U	0.7	U	U
Cadmium	5.1	6.7	2.3			0.9			3.3			3.3			0.02	U	U	0.03	U	U
Chromium	—	—	57			63.7			61			61			26.6			50.8		
Copper	390	390	115			67.6			85.2			101			15.6			17.9		
Lead	450	530	63			17			36			43			0.2	U	U	0.3	U	U
Mercury	0.41	0.59	0.4			0.17			0.2			0.3			0.006	U	U	0.006	U	U
Silver	6.1	6.1	0.3	U	U	0.2	U	U	0.4	U	U	0.34	U	U	0.13	U	U	0.15	U	U
Zinc	410	960	254			135			185			217			35			40		
LPAH in mg/kg TOC																				
Naphthalene	99	170	3.35			2.03			0.47			0.67			2.59	U	U	4.91	U	U
Acenaphthylene	66	66	0.46	U	U	0.54	U	U	0.32	J	J	0.48			2.59	U	U	4.91	U	U
Acenaphthene	16	57	0.42	U	U	0.52	U	U	0.28	J	J	0.45	J	J	2.47	U	U	4.62	U	U
Fluorene	23	79	0.48	U	U	0.56	U	U	0.39			0.69			2.69	U	U	5.09	U	U
Phenanthrene	100	480	1.66			2.15			1.64			3.10			2.50	U	U	4.74	U	U
Anthracene	220	1200	0.41	U	U	0.49	U	U	1.17			2.24			2.31	U	U	4.39	U	U
1-Methylnaphthalene	—	—	0.37	U	U	0.46	U	U	0.12	U	U	0.17	U	U	2.16	U	U	4.05	U	U
2-Methylnaphthalene	38	64	0.42	U	U	0.52	U	U	0.18	J	J	0.29	J	J	2.44	U	U	4.62	U	U
Total LPAH*	960	5300	5.01			4.18			4.27	J	J	7.64	J	J	2.69	U	U	5.09	U	U
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	2.82			3.48			6.03			15.99			3.40	J	J	4.45	U	U
Pyrene	1000	1400	2.47			3.48			5.70			11.93			9.26			4.39	U	U
Benzo(a)anthracene	110	270	0.32	U	U	1.27			2.18			4.77			1.76	U	U	3.35	U	U
Chrysene	110	460	1.45			2.03			4.36			10.02			1.98	U	U	3.76	U	U
Benzo(b)fluoranthene	—	—	1.25			1.52			3.35			6.44			2.84	U	U	5.38	U	U
Benzo(k)fluoranthene	—	—	1.20			1.65			2.85			5.73			2.78	U	U	5.26	U	U
Benzofluoranthenes*	230	450	2.45			3.16			6.20			12.17			2.84	U	U	5.38	U	U
Benzo(a)pyrene	99	210	0.42	U	U	1.27			2.51			5.01			2.44	U	U	4.62	U	U
Indeno(1,2,3-cd)pyrene	34	88	0.46	U	U	0.54	U	U	1.29			2.32			2.56	U	U	4.86	U	U
Dibenz(a,h)anthracene	12	33	0.44	U	U	0.54	U	U	0.40			0.95			2.56	U	U	4.86	U	U
Benzo(g,h,i)perylene	31	78	0.35	U	U	0.42	U	U	0.11	B	U	0.16	B	U	2.01	U	U	3.82	U	U
Total HPAH*	960	5300	9.19			14.68			28.66			63.17			12.65	J	J	5.38	U	U
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.39	U	U	0.47	U	U	0.12	U	U	0.18	U	U	2.22	U	U	4.22	U	U
1,4-Dichlorobenzene	3.1	9	0.39	U	U	0.46	U	U	0.12	U	U	0.17	U	U	2.19	U	U	4.16	U	U
1,2-Dichlorobenzene	2.3	2.3	0.41	U	U	0.50	U	U	0.13	U	U	0.19	U	U	2.35	U	U	4.45	U	U
1,2,4-Trichlorobenzene	0.81	1.8	0.48	U	U	0.58	U	U	0.15	U	U	0.21	U	U	2.72	U	U	5.14	U	U
Hexachlorobenzene	0.38	2.3	0.01	U	U	0.51	U	U	0.13	U	U	0.19	U	U	2.41	U	U	4.51	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.41	U	U	0.49	U	U	0.13	U	U	0.18	U	U	2.31	U	U	4.39	U	U
Diethylphthalate	61	110	0.86	U	U	1.01	U	U	0.27	U	U	0.38	U	U	4.94	U	U	9.25	U	U
Di-n-Butylphthalate	220	1700	0.65	U	U	0.76	U	U	0.20	U	U	0.29	U	U	3.70	U	U	6.94	U	U
Butylbenzylphthalate	4.9	64	0.58	U	U	0.70	U	U	0.18	U	U	0.26	U	U	3.40	U	U	6.36	U	U
bis(2-Ethylhexyl)phthalate	47	78	1.32			0.70	U	U	0.67			1.53			3.40	U	U	6.36	U	U
Di-n-Octylphthalate	58	4500	0.44	U	U	0.53	U	U	0.14	U	U	0.20	U	U	2.50	U	U	4.74	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	85			14	U	U	14	U	U	21			13	U	U	13	U	U
2-Methylphenol	63	63	42	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	2300			230			120			64			12	U	U	13	U	U
2,4-Dimethylphenol	29	29	44	U	U	15	U	U	15	U	U	15	U	U	14	U	U	14	U	U
Pentachlorophenol	360	690	140	U	U	47	U	U	48	U	U	47	U	U	46	U	U	47	U	U
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	43	U	UJ	14	U	UJ	14	U	U	14	U	U	14	U	U	14	U	U
Benzoic Acid (ug/kg DW)	650	650	340	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58	0.39	U	U	0.47	U	U	0.27	J	J	0.45	J	J	2.25	U	U	4.28	U	U
Hexachlorobutadiene	3.9	6.2	0.01	U	U	0.51	U	U	0.14	U	U	0.19	U	U	2.44	U	U	4.57	U	U
N-Nitrosodiphenylamine	28	130	0.46	U	U	0.55	U	U	0.15	U	U	0.21	U	U	2.59	U	U	4.91	U	U

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A1-03-C1-3			A1-03-C3-5			A1-07-C1-3			A1-07-C3-5			A1-15-C1-3			A1-15-C3-5		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	0.12	U	U	0.41	U	U	0.11	U	U	0.16	U	U	2.01	U	U	3.76	U	U
Aroclor-1232	—	—	0.12	U	U	0.41	U	U	0.11	U	U	0.16	U	U	2.01	U	U	3.76	U	U
Aroclor-1242	—	—	0.12	U	U	0.41	U	U	0.11	U	U	0.16	U	U	2.01	U	U	3.76	U	U
Aroclor-1016	—	—	0.12	U	U	0.41	U	U	0.11	U	U	0.16	U	U	2.01	U	U	3.76	U	U
Aroclor-1248	—	—	0.12	Y	U	0.41	U	U	0.11	U	U	0.69			2.01	U	U	3.76	U	U
Aroclor-1254	—	—	2.12			0.41	U	U	0.11	U	U	0.60			2.01	U	U	3.76	U	U
Aroclor-1260	—	—	1.59			0.41	U	U	0.11	U	U	0.16	U	U	2.01	U	U	3.76	U	U
Aroclor-1262	—	—	0.12	U	U	0.41	U	U	0.11	U	U	0.16	U	U	2.01	U	U	3.76	U	U
Aroclor-1268	—	—	0.12	U	U	0.41	U	U	0.11	U	U	0.16	U	U	2.01	U	U	3.76	U	U
Total PCBs*	12	65	3.70			0.41	U	U	0.11	U	U	1.29			2.01	U	U	3.76	U	U
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD																				
1,2,3,7,8-PECDD																				
1,2,3,4,7,8-HXCDD																				
1,2,3,6,7,8-HXCDD																				
1,2,3,7,8,9-HXCDD																				
1,2,3,4,6,7,8-HPCDD																				
OCDD																				
2,3,7,8-TCDF																				
1,2,3,7,8-PECDF																				
2,3,4,7,8-PECDF																				
1,2,3,4,7,8-HXCDF																				
1,2,3,6,7,8-HXCDF																				
1,2,3,7,8,9-HXCDF																				
2,3,4,6,7,8-HXCDF																				
1,2,3,4,6,7,8-HPCDF																				
1,2,3,4,7,8,9-HPCDF																				
OCDF																				
TEQ 0 DL																				
TEQ 1/2 DL																				

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A1-18-C1-3			A1-18-C3-5			A1-24-C1-3			A1-24-C3-5			A2-02-C1-3			A2-07-C1-3		
Collection Date	**SQS**	**CSL**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
Conventionals																				
Total Organic Carbon (% DW)	—	—	1.12			0.831			2.47			7.1			0.507			0.541		
TVS (% DW)	—	—	3.79			2.79			18.21			15.4			1.65			3.55		
Total Solids (% DW)	—	—	66.9			73.2			43.2			52.5			74.1			71.5		
Preserved Total Solids (% DW)	—	—	59.7			64.6			39.8			51.5			74.5			68.8		
Ammonia (mg-N/kg DW)	—	—	8.09		J	24.3		J	93.7		J	120		J	1.33		J	9.57		J
Total Sulfides (mg/kg DW)	—	—	98.8		J	187		J	799		J	300		J	0.01	U	UJ	86.4		J
Grain Size																				
Phi Scale <-1			0.1			2.9			10			2.5			0.1			1.2		
Phi Scale -1 to 0			0.5			4.1			4			3.3			0.1			0.4		
Phi Scale 0 to 1			2.2			10.6			5.5			4.7			3.6			1		
Phi Scale 1 to 2			9.3			16.5			7.9			8.4			41			8.2		
Phi Scale 2 to 3			5.3			6.6			5.7			11.8			45.6			43.5		
Phi Scale 3 to 4			21.4			14.1			10.1			12.1			4			30.6		
Phi Scale 4 to 5			18.8			18.6			10.9			12.7			1.6			6.3		
Phi Scale 5 to 6			15.5			10.4			11.4			11.6			0.7			2.6		
Phi Scale 6 to 7			8.2			5.1			9.4			8.5			0.9			1.9		
Phi Scale 7 to 8			5.4			3.2			6.4			7			0.6			1.2		
Phi Scale 8 to 9			3.8			2.1			4.9			4.9			0.4			0.7		
Phi Scale 9 to 10			2.6			1.8			4.8			4.6			0.3			0.8		
Phi Scale >10			7			4.1			8.9			8			1.1			1.7		
Fines (Silt/Clay)			61.2			45.3			56.8			57.3			5.6			15.1		
Metals in mg/kg DW																				
Arsenic	57	93	11			9			10			22			11			0.7	U	U
Cadmium	5.1	6.7	0.5			0.3			2			1.8			0.03	U	U	0.03	U	U
Chromium	—	—	41.7			36.7			53			47.4			27.6			31.7		
Copper	390	390	47			36.1			81.3			82			16.7			25.3		
Lead	450	530	11			8			55			50			5			6		
Mercury	0.41	0.59	0.12			0.09			0.3			0.28			0.006	U	U	0.006	U	U
Silver	6.1	6.1	0.16	U	U	0.15	U	U	0.24	U	U	0.19	U	U	0.14	U	U	0.14	U	U
Zinc	410	960	67			57			122			159			45			57		
LPAH in mg/kg TOC																				
Naphthalene	99	170	17.86			4.57			10.93			7.18			1.70	U	U	2.22	J	J
Acenaphthylene	66	66	1.96			1.93	J	J	0.81			0.51			1.70	U	U	1.53	U	U
Acenaphthene	16	57	1.52	J	J	0.96	U	U	4.86			3.52			1.62	U	U	2.22	J	J
Fluorene	23	79	1.79			1.05	U	U	6.07			5.07			1.76	U	U	1.59	U	U
Phenanthrene	100	480	6.34			6.02			12.15			8.73			1.66	U	U	3.51	J	J
Anthracene	220	1200	1.96			1.93	J	J	4.86			3.52			1.52	U	U	1.37	U	U
1-Methylnaphthalene	—	—	2.95			0.84	U	U	2.55			1.69			1.42	U	U	1.28	U	U
2-Methylnaphthalene	38	64	4.82			1.19	J	J	4.45			3.38			1.62	U	U	1.44	U	U
Total LPAH*	960	5300	31.43	J	J	14.44	J	J	39.68			28.54			1.76	U	U	7.95	J	J
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	7.50			8.66			10.93			5.49			1.56	U	U	3.70		
Pyrene	1000	1400	8.93			10.11			5.26			2.82			1.52	U	U	4.25		
Benzo(a)anthracene	110	270	3.13			3.13			3.12			1.15			1.16	U	U	2.96	J	J
Chrysene	110	460	3.75			4.45			6.48			2.25			1.30	U	U	4.07		
Benzo(b)fluoranthene	—	—	4.29			2.89			4.45			1.55			1.87	U	U	2.40	J	J
Benzo(k)fluoranthene	—	—	2.32			3.49			4.05			1.55			1.81	U	U	3.14	J	J
Benzofluoranthenes*	230	450	6.61			6.38			8.50			3.10			1.87	U	U	5.55	J	
Benzo(a)pyrene	99	210	3.66			3.97			3.56			1.37			1.60	U	U	3.14	J	J
Indeno(1,2,3-cd)pyrene	34	88	3.04			2.29	J	J	1.30			0.46			1.70	U	U	1.52	U	U
Dibenz(a,h)anthracene	12	33	0.76	U	U	1.00	U	U	0.40	J	J	0.12	U	U	1.68	U	U	1.52	U	U
Benzo(g,h,i)perylene	31	78	0.60	B	U	0.79	B	U	0.27	B	U	0.09	B	U	1.32	U	U	1.20	U	U
Total HPAH*	960	5300	36.61			38.99	JB	J	39.55	J	J	16.65			1.87	U	U	23.66	J	J
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.66	U	U	0.87	U	U	0.29	U	U	0.10	U	U	1.46	U	U	1.31	U	U
1,4-Dichlorobenzene	3.1	9	0.65	U	U	0.85	U	U	0.29	U	U	0.10	U	U	1.44	U	U	1.29	U	U
1,2-Dichlorobenzene	2.3	2.3	0.70	U	U	0.93	U	U	0.31	U	U	0.11	U	U	1.54	U	U	1.39	U	U
1,2,4-Trichlorobenzene	0.81	1.8	0.80	U	U	1.06	U	U	0.36	U	U	0.12	U	U	1.78	U	U	1.61	U	U
Hexachlorobenzene	0.38	2.3	0.71	U	U	0.94	U	U	0.32	U	U	0.11	U	U	1.58	U	U	1.42	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.69	U	U	0.90	U	U	0.30	U	U	0.11	U	U	1.52	U	U	1.37	U	U
Diethylphthalate	61	110	1.43	U	U	1.93	U	U	0.65	U	U	0.23	U	U	3.16	U	U	2.96	U	U
Di-n-Butylphthalate	220	1700	1.07	U	U	1.44	U	U	1.66			0.66			2.37	U	U	2.22	U	U
Butylbenzylphthalate	4.9	64	0.98	U	U	1.32	U	U	0.45	U	U	0.15	U	U	2.17	U	U	2.03	U	U
bis(2-Ethylhexyl)phthalate	47	78	0.98	J	J	1.32	U	U	0.89			0.15	U	U	2.17	U	U	2.03	U	U
Di-n-Octylphthalate	58	4500	0.74	U	U	0.97	U	U	0.33	U	U	0.11	U	U	1.64	U	U	1.48	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	15	J	J	13	U	U	21			24			14	U	U	13	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	20			34			14	U	U	14	U	U
4-Methylphenol	670	670	31			12	U	U	870			890			13	U	U	12	U	U
2,4-Dimethylphenol	29	29	15	U	U	14	U	U	23			30			15	U	U	14	U	U
Pentachlorophenol	360	690	47	U	U	46	U	U	46	U	U	46	U	U	47	U	U	45	U	U
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	U	U	14	U	U	14	U	U	14	U	UJ	14	U	U
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58	1.16	J	J	0.88	U	U	4.45			3.10			1.48	U	U	1.33	U	U
Hexachlorobutadiene	3.9	6.2	0.72	U	U	0.95	U	U	0.32	U	U	0.11	U	U	1.60	U	U	1.44	U	U
N-Nitrosodiphenylamine	28	130	0.77	U	U	1.01	U	U	0.34	U	U	0.12	U	U	1.70	U	U	1.53	U	U

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A1-18-C1-3			A1-18-C3-5			A1-24-C1-3			A1-24-C3-5			A2-02-C1-3			A2-07-C1-3		
Collection Date	SQS	CSL	08/14/2008	LQ	VQ	08/14/2008	LQ	VQ	08/14/2008	LQ	VQ	08/14/2008	LQ	VQ	08/14/2008	LQ	VQ	08/14/2008	LQ	VQ
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	0.59	U	U	0.78	U	U	0.26	U	U	0.09	U	U	1.30	U	U	1.18	U	U
Aroclor-1232	—	—	0.59	U	U	0.78	U	U	0.26	U	U	0.09	U	U	1.30	U	U	1.18	U	U
Aroclor-1242	—	—	0.59	U	U	0.78	U	U	0.26	U	U	0.09	U	U	1.30	U	U	1.18	U	U
Aroclor-1016	—	—	0.59	U	U	0.78	U	U	0.26	U	U	0.09	U	U	1.30	U	U	1.18	U	U
Aroclor-1248	—	—	0.59	U	U	0.78	U	U	0.26	U	U	0.09	U	U	1.30	U	U	1.18	U	U
Aroclor-1254	—	—	0.59	U	U	0.78	U	U	1.34	P		0.30			1.30	U	U	4.62		
Aroclor-1260	—	—	0.59	U	U	0.78	U	U	0.26	U	U	0.09	U	U	1.30	U	U	1.18	U	U
Aroclor-1262	—	—	0.59	U	U	0.78	U	U	0.26	U	U	0.09	U	U	1.30	U	U	1.18	U	U
Aroclor-1268	—	—	0.59	U	U	0.78	U	U	0.26	U	U	0.09	U	U	1.30	U	U	1.18	U	U
Total PCBs*	12	65	0.59	U	U	0.78	U	U	1.34	P		0.30			1.30	U	U	4.62		
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD									1.34											
1,2,3,7,8-PECDD									3.09	J	J									
1,2,3,4,7,8-HXCDD									3.89	J	J									
1,2,3,6,7,8-HXCDD									16.6											
1,2,3,7,8,9-HXCDD									10											
1,2,3,4,6,7,8-HPCDD									267											
OCDD									2170											
2,3,7,8-TCDF									332											
1,2,3,7,8-PECDF									6.44											
2,3,4,7,8-PECDF									8.04											
1,2,3,4,7,8-HXCDF									16.5											
1,2,3,6,7,8-HXCDF									5.69											
1,2,3,7,8,9-HXCDF									0.83	J	J									
2,3,4,6,7,8-HXCDF									5.02											
1,2,3,4,6,7,8-HPCDF									94.4											
1,2,3,4,7,8,9-HPCDF									9.86											
OCDF									193											
TEQ 0 DL									50.5											
TEQ 1/2 DL									50.5											

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A2-11-C1-3			A2-18-C1-3			A2-18-C3-5			A2-25-C1-3			A2-25-C3-5			A2-30-C1-3		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**
Conventionals																				
Total Organic Carbon (% DW)	—	—	1.43			1.81			0.424			1.19			1.08			1.97		
TVS (% DW)	—	—	7.91			10.65			2.17			4.96			2.31			7.35		
Total Solids (% DW)	—	—	59.1			67.9			81.3			77.7			80.1			56.8		
Preserved Total Solids (% DW)	—	—	56.1			60.6			78.9			69.5			72.7			55.6		
Ammonia (mg-N/kg DW)	—	—	56.9		J	58.3		J	30.2		J	1.69		J	4.12		J	53.9		J
Total Sulfides (mg/kg DW)	—	—	800		J	55		J	585		J	9.64		J	23.8		J	1520		J
Grain Size																				
Phi Scale <-1			0.8			3.6			0.1			0.7			0.7			0.8		
Phi Scale -1 to 0			1.6			1.1			0.7			0.8			2.1			1.1		
Phi Scale 0 to 1			1.8			1.9			4.4			6.9			13.9			1.5		
Phi Scale 1 to 2			4.9			3.9			11.8			31.4			35.9			2.4		
Phi Scale 2 to 3			16.6			8.5			26.8			29.6			19.9			6.9		
Phi Scale 3 to 4			17.6			13.4		J	29.8		J	11.8		J	11.5		J	23.3		J
Phi Scale 4 to 5			14.7			21			12.5			6.7			6.3			25.1		
Phi Scale 5 to 6			12.3			19.3			5.3			4.1			3.3			15.1		
Phi Scale 6 to 7			9.1			9.8			2.9			3			1.9			8.1		
Phi Scale 7 to 8			6			5.4			1.8			1.8			1.6			4.9		
Phi Scale 8 to 9			4.4			3.8			1.3			0.9			0.7			3.1		
Phi Scale 9 to 10			3.4			2.8			1			0.8			0.7			2.2		
Phi Scale >10			6.8			5.5			1.6			1.5			1.4			5.4		
Fines (Silt/Clay)			56.7			67.5			26.4			18.9			15.9			64		
Metals in mg/kg DW																				
Arsenic	57	93	16			13			11			8			8			17		
Cadmium	5.1	6.7	0.5			0.4			0.02	U	U	0.02	U	U	0.02	U	U	0.4		
Chromium	—	—	50.6			42.3			37.3			34.2			33.3			51.5		
Copper	390	390	55.6			40.9			24.5			26.2			22.7			52.5		
Lead	450	530	22			14			6			5			5			11		
Mercury	0.41	0.59	0.16			0.1			0.004	U	U	0.006	U	U	0.005	U	U	0.08		
Silver	6.1	6.1	0.19	U	U	0.15	U	U	0.12	U	U	0.14	U	U	0.14	U	U	0.19	U	U
Zinc	410	960	87			70			51			51			50			94		
LPAH in mg/kg TOC																				
Naphthalene	99	170	2.94			1.93			2.00	U	U	2.02			3.06			0.43	U	U
Acenaphthylene	66	66	2.52			0.46	U	U	1.98	U	U	0.71	U	U	0.80	U	U	0.43	U	U
Acenaphthene	16	57	1.33	J	J	0.44	U	U	1.89	U	U	0.67	U	U	0.76	U	U	0.41	U	U
Fluorene	23	79	1.96			0.48	U	U	2.05	U	U	0.73	U	U	0.82	U	U	0.45	U	U
Phenanthrene	100	480	5.38			1.99			1.93	U	U	0.69	U	U	6.30			1.93		
Anthracene	220	1200	5.66			0.41	U	U	1.77	U	U	0.63	U	U	3.89			1.27		
1-Methylnaphthalene	—	—	1.75			0.39	U	U	1.65	U	U	0.59	U	U	0.67	U	U	0.36	U	U
2-Methylnaphthalene	38	64	2.10			0.44	U	U	1.89	U	U	0.67	U	U	0.76	U	U	0.41	U	U
Total LPAH*	960	5300	19.79	J	J	3.92			2.05	U	U	2.02			13.24			3.20		
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	37.76			3.09			1.82	U	U	2.27			8.33			8.12		
Pyrene	1000	1400	35.66			3.09			1.79	U	U	2.86			11.11			7.11		
Benzo(a)anthracene	110	270	13.29			1.27			1.37	U	U	2.02			4.81			3.35		
Chrysene	110	460	15.38			1.99			1.53	U	U	2.77			5.65			5.58		
Benzo(b)fluoranthene	—	—	6.99			1.66			2.19	U	U	1.76			3.24			5.08		
Benzo(k)fluoranthene	—	—	8.39			0.50	U	U	2.12	U	U	2.10			3.61			3.20		
Benzofluoranthenes*	230	450	15.38			1.66			2.19	U	U	3.87			6.85			8.27		
Benzo(a)pyrene	99	210	9.09			1.49			1.89	U	U	2.44			5.56			3.25		
Indeno(1,2,3-cd)pyrene	34	88	2.66			0.46	U	U	1.98	U	U	0.71	U	U	2.87			1.27		
Dibenz(a,h)anthracene	12	33	0.58	U	U	0.46	U	U	1.96	U	U	0.70	U	U	0.79	U	U	0.43	U	U
Benzo(g,h,i)perylene	31	78	0.45	B	U	0.36	U	U	1.56	U	U	0.55	U	U	3.24			1.17		
Total HPAH*	960	5300	129.23			12.60			2.19	U	U	16.22			45.19			38.12		
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.50	U	U	0.40	U	U	1.72	U	U	0.61	U	U	0.69	U	U	0.37	U	U
1,4-Dichlorobenzene	3.1	9	0.50	U	U	0.40	U	U	1.70	U	U	0.61	U	U	0.68	U	U	0.37	U	U
1,2-Dichlorobenzene	2.3	2.3	0.53	U	U	0.43	U	U	1.82	U	U	0.65	U	U	0.72	U	U	0.39	U	U
1,2,4-Trichlorobenzene	0.81	1.8	0.62	U	U	0.49	U	U	2.08	U	U	0.74	U	U	0.83	U	U	0.45	U	U
Hexachlorobenzene	0.38	2.3	0.55	U	U	0.43	U	U	1.84	U	U	0.66	U	U	0.74	U	U	0.40	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.52	U	U	0.41	U	U	1.79	U	U	0.63	U	U	0.71	U	U	0.39	U	U
Diethylphthalate	61	110	1.12	U	U	0.88	U	U	3.77	U	U	1.34	U	U	1.48	U	U	0.81	U	U
Di-n-Butylphthalate	220	1700	0.84	U	U	0.66	U	U	2.83	U	U	1.01	U	U	1.11	U	U	0.61	U	U
Butylbenzylphthalate	4.9	64	0.77	U	U	0.61	U	U	2.59	U	U	0.92	U	U	1.02	U	U	0.56	U	U
bis(2-Ethylhexyl)phthalate	47	78	0.77	U	U	0.61	U	U	2.59	U	U	0.92	U	U	1.02	U	U	1.22		
Di-n-Octylphthalate	58	4500	0.57	U	U	0.45	U	U	1.91	U	U	0.68	U	U	0.77	U	U	0.42	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	16	J	J	13	U	U	13	U	U	13	U	U	14	U	U	13	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	74			36			12	U	U	23			13	U	U	13	U	U
2,4-Dimethylphenol	29	29	14	U	U	14	U	U	14	U	U	14	U	U	15	U	U	14	U	U
Pentachlorophenol	360	690	46	U	U	46	U	U	46	U	U	46	U	U	47	U	U	47	U	U
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U	14	U	UJ	14	U	UJ	14	U	UJ	14	U	UJ	14	U	UJ
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58	0.70	J	J	0.40	U	U	1.75	U	U	0.62	U	U	0.69	U	U	0.38	U	U
Hexachlorobutadiene	3.9	6.2	0.55	U	U	0.44	U	U	1.86	U	U	0.66	U	U	0.75	U	U	0.40	U	U
N-Nitrosodiphenylamine	28	130	0.59	U	U	0.46	U	U	2.00	U	U	0.71	U	U	0.80	U	U	0.43	U	U

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A2-11-C1-3			A2-18-C1-3			A2-18-C3-5			A2-25-C1-3			A2-25-C3-5			A2-30-C1-3		
Collection Date	SQS	CSL	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	0.45	U	U	0.35	U	U	1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Aroclor-1232	—	—	0.45	U	U	0.35	U	U	1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Aroclor-1242	—	—	0.45	U	U	0.35	U	U	1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Aroclor-1016	—	—	0.45	U	U	0.35	U	U	1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Aroclor-1248	—	—	1.68			0.35	U	U	1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Aroclor-1254	—	—	1.61			1.27			1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Aroclor-1260	—	—	0.45	U	U	0.35	U	U	1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Aroclor-1262	—	—	0.45	U	U	0.35	U	U	1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Aroclor-1268	—	—	0.45	U	U	0.35	U	U	1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Total PCBs*	12	65	3.29			1.27			1.49	U	U	0.53	U	U	0.60	U	U	0.32	U	U
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD						0.884												0.047	KJ	U
1,2,3,7,8-PECDD						1.46	J	J										0.458	J	J
1,2,3,4,7,8-HXCDD						2.06	J	J										0.706	J	J
1,2,3,6,7,8-HXCDD						6.65												2.58	J	J
1,2,3,7,8,9-HXCDD						5.86												0.16	KJ	U
1,2,3,4,6,7,8-HPCDD						116												56.4		
OCDD						881												608		
2,3,7,8-TCDF						6.64												0.766	J	J
1,2,3,7,8-PECDF						1.19	J	J										0.0893	KJ	U
2,3,4,7,8-PECDF						1.52	J	J										0.351	J	J
1,2,3,4,7,8-HXCDF						2.06	J	J										0.632	J	J
1,2,3,6,7,8-HXCDF						1.23	J	J										0.436	J	J
1,2,3,7,8,9-HXCDF						0.118	J	J										0.0874	U	U
2,3,4,6,7,8-HXCDF						1.25	J	J										0.47	J	J
1,2,3,4,6,7,8-HPCDF						32.7												8.67		
1,2,3,4,7,8,9-HPCDF						2.21	J	J										0.674	J	J
OCDF						109												22		
TEQ 0 DL						7.23												1.97		
TEQ 1/2 DL						7.23												2.01		

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A2-30-C3-5			A2-32-C1-3			A2-32-C3-5			A2-37B-C1-3			A3-05-C1-3			A3-05-C3-5		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
Conventionals																				
Total Organic Carbon (% DW)	—	—	1.92			0.321			0.162			1.18			0.31			0.165		
TVS (% DW)	—	—	8.39			0.91			0.89			4.71			1.03			0.93		
Total Solids (% DW)	—	—	61.2			91.1			93.1			59.3			76.3			85.6		
Preserved Total Solids (% DW)	—	—	52.2			79			86.1			59			75.6			72.8		
Ammonia (mg-N/kg DW)	—	—	55.1		J	0.03	U	UJ	0.17		J	17.9		J	0.03	U	UJ	0.03	U	UJ
Total Sulfides (mg/kg DW)	—	—	283		J	0.01	U	UJ	0.01	U	UJ	1360		J	16.4		J	1.76		J
Grain Size																				
Phi Scale <-1			2.7			1.6			5.5			0.3			0.3			2.3		
Phi Scale -1 to 0			2.5			8.9			12.7			0.7			1			3.5		
Phi Scale 0 to 1			6.7			45.6			43			1.1			7.6			10.5		
Phi Scale 1 to 2			9.4			40.5			35.4			4.6			45.8			48.2		
Phi Scale 2 to 3			11.5			2.3			1.3			18			37			32.7		
Phi Scale 3 to 4			23.5		J	0.2		J	0.1		J	25.7			5.5		J	2.8		J
Phi Scale 4 to 5			15.9									17.6								
Phi Scale 5 to 6			8.9									12.8								
Phi Scale 6 to 7			6.5									6.9								
Phi Scale 7 to 8			3.6									4.3								
Phi Scale 8 to 9			2.3									2.6								
Phi Scale 9 to 10			2.2									2.3								
Phi Scale >10			4.4									3.2								
Fines (Silt/Clay)			43.7			0.9			2			49.6			2.8			0.1		
Metals in mg/kg DW																				
Arsenic	57	93	12			7			8			12			0.6	U	U	0.6	U	U
Cadmium	5.1	6.7	0.03	U	U	0.02	U	U	0.02	U	U	0.3			0.02	U	U	0.02	U	U
Chromium	—	—	44.3			23.7			21.6			45.2			26.4			25.2		
Copper	390	390	41.3			17.7			15.7			43.5			14.9			13.3		
Lead	450	530	11			3			0.2	U	U	10			3			2		
Mercury	0.41	0.59	0.007	U	U	0.004	U	U	0.004	U	U	0.09			0.005	U	U	0.004	U	U
Silver	6.1	6.1	0.17	U	U	0.12	U	U	0.13	U	U	0.17	U	U	0.13	U	U	0.13	U	U
Zinc	410	960	70			42			36			77			37			39		
LPAH in mg/kg TOC																				
Naphthalene	99	170	1.35			2.62	U	U	5.19	U	U	2.88			2.71	U	U	5.21	U	U
Acenaphthylene	66	66	2.71			2.62	U	U	5.19	U	U	1.02	J	J	2.71	U	U	5.15	U	U
Acenaphthene	16	57	1.15			2.49	U	U	4.94	U	U	1.10	J	J	2.58	U	U	4.91	U	U
Fluorene	23	79	0.46	U	U	2.71	U	U	5.37	U	U	0.93	J	J	2.81	U	U	5.33	U	U
Phenanthrene	100	480	3.13			2.52	U	U	5.06	U	U	3.22			2.61	U	U	5.03	U	U
Anthracene	220	1200	2.08			2.34	U	U	4.63	U	U	1.02	J	J	2.42	U	U	4.61	U	U
1-Methylnaphthalene	—	—	0.37	U	U	2.18	U	U	4.32	U	U	0.58	U	U	2.26	U	U	4.30	U	U
2-Methylnaphthalene	38	64	0.42	U	U	2.46	U	U	4.94	U	U	0.81	J	J	2.55	U	U	4.91	U	U
Total LPAH*	960	5300	10.42			2.71	U	U	5.37	U	U	10.17	J	J	2.81	U	U	5.33	U	U
HPAH in mg/kg TOC																				
Fluoranthene	160	1200	24.48			2.40	U	U	4.75	U	U	5.08			2.48	U	U	4.73	U	U
Pyrene	1000	1400	24.48			2.34	U	U	4.69	U	U	5.25			2.42	U	U	4.61	U	U
Benzo(a)anthracene	110	270	13.02			1.78	U	U	3.58	U	U	1.78			1.84	U	U	3.52	U	U
Chrysene	110	460	18.75			1.99	U	U	4.01	U	U	2.12			2.06	U	U	3.94	U	U
Benzo(b)fluoranthene	—	—	17.19			2.87	U	U	5.74	U	U	1.86			2.97	U	U	5.70	U	U
Benzo(k)fluoranthene	—	—	9.38			2.80	U	U	5.56	U	U	2.46			2.90	U	U	5.52	U	U
Benzofluoranthenes*	230	450	26.56			2.87	U	U	5.74	U	U	4.32			2.97	U	U	5.70	U	U
Benzo(a)pyrene	99	210	13.54			2.46	U	U	4.88	U	U	1.86			2.55	U	U	4.85	U	U
Indeno(1,2,3-cd)pyrene	34	88	3.59			2.59	U	U	5.19	U	U	1.19	J	J	2.68	U	U	5.15	U	U
Dibenz(a,h)anthracene	12	33	1.72			2.59	U	U	5.12	U	U	0.69	U	U	2.68	U	U	5.09	U	U
Benzo(g,h,i)perylene	31	78	3.59			2.02	U	U	4.07	U	U	0.55	U	U	2.10	U	U	4.06	U	U
Total HPAH*	960	5300	129.74			2.87	U	U	5.74	U	U	21.61	J	J	2.97	U	U	5.70	U	U
Chlorinated Aromatics in mg/kg TOC																				
1,3-Dichlorobenzene	—	—	0.39	U	U	2.24	U	U	4.44	U	U	0.61	U	U	2.32	U	U	4.42	U	U
1,4-Dichlorobenzene	3.1	9	0.38	U	U	2.21	U	U	4.44	U	U	0.60	U	U	2.29	U	U	4.42	U	U
1,2-Dichlorobenzene	2.3	2.3	0.41	U	U	2.37	U	U	4.75	U	U	0.64	U	U	2.45	U	U	4.73	U	U
1,2,4-Trichlorobenzene	0.81	1.8	0.47	U	U	2.74	U	U	5.43	U	U	0.74	U	U	2.84	U	U	5.45	U	U
Hexachlorobenzene	0.38	2.3	0.42	U	U	2.43	U	U	4.81	U	U	0.65	U	U	2.52	U	U	4.79	U	U
Phthalate Esters in mg/kg TOC																				
Dimethylphthalate	53	53	0.40	U	U	2.34	U	U	4.69	U	U	0.64	U	U	2.42	U	U	4.61	U	U
Diethylphthalate	61	110	0.83	U	U	4.98	U	U	9.88	U	U	1.36	U	U	5.16	U	U	18.79		
Di-n-Butylphthalate	220	1700	0.63	U	U	3.74	U	U	7.41	U	U	1.02	U	U	3.87	U	U	7.27	U	U
Butylbenzylphthalate	4.9	64	0.57	U	U	3.43	U	U	6.79	U	U	0.93	U	U	3.55	U	U	6.67	U	U
bis(2-Ethylhexyl)phthalate	47	78	1.67			3.43	U	U	6.79	U	U	1.27	J	J	3.55	U	U	6.67	U	U
Di-n-Octylphthalate	58	4500	0.43	U	U	2.52	U	U	5.00	U	U	0.68	U	U	2.61	U	U	4.97	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	14	U	U	13	U	U	13	U	U	13	U	U	13	U	U	14	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	13	U	U	12	U	U	12	U	U	59			12	U	U	13	U	U
2,4-Dimethylphenol	29	29	15	U	U	14	U	U	14	U	U	14	U	U	14	U	U	15	U	U
Pentachlorophenol	360	690	47	U	U	46	U	U	46	U	U	46	U	U	46	U	U	47	U	U
Miscellaneous Extractables in mg/kg TOC																				
Benzyl Alcohol (ug/kg DW)	57	73	14	U	UJ	14	U	UJ	14	U	UJ	14	U	U	14	U	UJ	14	U	UJ
Benzoic Acid (ug/kg DW)	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	15	58	0.39	U	U	2.27	U	U	4.57	U	U	0.62	U	U	2.35	U	U	4.55	U	U
Hexachlorobutadiene	3.9	6.2	0.42	U	U	2.46	U	U	4.88	U	U	0.66	U	U	2.55	U	U	4.85	U	U
N-Nitrosodiphenylamine	28	130	0.45	U	U	2.62	U	U	5.19	U	U	0.70	U	U	2.71	U	U	5.21	U	U

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A2-30-C3-5			A2-32-C1-3			A2-32-C3-5			A2-37B-C1-3			A3-05-C1-3			A3-05-C3-5		
Collection Date	SQS	CSL	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/14/2008	LQ	VQ	08/14/2008	LQ	VQ
PCBs in mg/kg TOC																				
Aroclor-1221	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Aroclor-1232	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Aroclor-1242	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Aroclor-1016	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Aroclor-1248	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Aroclor-1254	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Aroclor-1260	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Aroclor-1262	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Aroclor-1268	—	—	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Total PCBs*	12	65	0.34	U	U	1.99	U	U	3.95	U	U	0.55	U	U	2.06	U	U	3.88	U	U
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD						0.0405	U	U							0.046	U	U			
1,2,3,7,8-PECDD						0.105	U	U							0.12	U	U			
1,2,3,4,7,8-HXCDD						0.154	U	U							0.175	U	U			
1,2,3,6,7,8-HXCDD						0.146	U	U							0.166	U	U			
1,2,3,7,8,9-HXCDD						0.138	U	U							0.156	U	U			
1,2,3,4,6,7,8-HPCDD						0.246	J	J							1.05	J	J			
OCDD						1.9	J	J							10.3					
2,3,7,8-TCDF						0.0405	U	U							0.046	KJ	U			
1,2,3,7,8-PECDF						0.0769	U	U							0.0874	U	U			
2,3,4,7,8-PECDF						0.0778	U	U							0.0883	U	U			
1,2,3,4,7,8-HXCDF						0.0737	U	U							0.0837	U	U			
1,2,3,6,7,8-HXCDF						0.0972	U	U							0.11	U	U			
1,2,3,7,8,9-HXCDF						0.0753	U	U							0.0856	U	U			
2,3,4,6,7,8-HXCDF						0.0972	U	U							0.11	U	U			
1,2,3,4,6,7,8-HPCDF						0.087	J	J							0.147	J	J			
1,2,3,4,7,8,9-HPCDF						0.0713	U	U							0.081	U	U			
OCDF						0.227	U	U							0.258	U	U			
TEQ 0 DL						0.0039									0.0151					
TEQ 1/2 DL						0.131									0.16					

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A4-04-C1-3		
Collection Date	SQS	CSL	08/14/2008	LQ	VQ
Conventionals					
Total Organic Carbon (% DW)	—	—	0.247		
TVS (% DW)	—	—	0.99		
Total Solids (% DW)	—	—	83.9		
Preserved Total Solids (% DW)	—	—	78.7		
Ammonia (mg-N/kg DW)	—	—	0.03	U	UJ
Total Sulfides (mg/kg DW)	—	—	0.01	U	UJ
Grain Size					
Phi Scale <-1			0.5		
Phi Scale -1 to 0			5.4		
Phi Scale 0 to 1			31.8		
Phi Scale 1 to 2			48.6		
Phi Scale 2 to 3			10.9		
Phi Scale 3 to 4			1.2		
Phi Scale 4 to 5					
Phi Scale 5 to 6					
Phi Scale 6 to 7					
Phi Scale 7 to 8					
Phi Scale 8 to 9					
Phi Scale 9 to 10					
Phi Scale >10					
Fines (Silt/Clay)			1.6		
Metals in mg/kg DW					
Arsenic	57	93	8		
Cadmium	5.1	6.7	0.02	U	U
Chromium	—	—	26		
Copper	390	390	15.1		
Lead	450	530	3		
Mercury	0.41	0.59	0.005	U	U
Silver	6.1	6.1	0.13	U	U
Zinc	410	960	44		
LPAH in mg/kg TOC					
Naphthalene	99	170	3.52	U	U
Acenaphthylene	66	66	3.48	U	U
Acenaphthene	16	57	3.32	U	U
Fluorene	23	79	3.60	U	U
Phenanthrene	100	480	3.40	U	U
Anthracene	220	1200	3.12	U	U
1-Methylnaphthalene	—	—	2.91	U	U
2-Methylnaphthalene	38	64	3.32	U	U
Total LPAH*	960	5300	3.60	U	U
HPAH in mg/kg TOC					
Fluoranthene	160	1200	3.20	U	U
Pyrene	1000	1400	3.12	U	U
Benzo(a)anthracene	110	270	2.39	U	U
Chrysene	110	460	2.67	U	U
Benzo(b)fluoranthene	—	—	3.85	U	U
Benzo(k)fluoranthene	—	—	3.72	U	U
Benzofluoranthenes*	230	450	3.85	U	U
Benzo(a)pyrene	99	210	3.28	U	U
Indeno(1,2,3-cd)pyrene	34	88	3.48	U	U
Dibenz(a,h)anthracene	12	33	3.44	U	U
Benzo(g,h,i)perylene	31	78	2.71	U	U
Total HPAH*	960	5300	3.85	U	U
Chlorinated Aromatics in mg/kg TOC					
1,3-Dichlorobenzene	—	—	3.00	U	U
1,4-Dichlorobenzene	3.1	9	2.96	U	U
1,2-Dichlorobenzene	2.3	2.3	3.20	U	U
1,2,4-Trichlorobenzene	0.81	1.8	3.68	U	U
Hexachlorobenzene	0.38	2.3	3.24	U	U
Phthalate Esters in mg/kg TOC					
Dimethylphthalate	53	53	3.12	U	U
Diethylphthalate	61	110	6.48	U	U
Di-n-Butylphthalate	220	1700	4.86	U	U
Butylbenzylphthalate	4.9	64	4.45	U	U
bis(2-Ethylhexyl)phthalate	47	78	4.45	U	U
Di-n-Octylphthalate	58	4500	3.36	U	U
Phenols in ug/kg DW					
Phenol	420	1200	14	U	U
2-Methylphenol	63	63	14	U	U
4-Methylphenol	670	670	13	U	U
2,4-Dimethylphenol	29	29	15	U	UJ
Pentachlorophenol	360	690	47	U	U
Miscellaneous Extractables in mg/kg TOC					
Benzyl Alcohol (ug/kg DW)	57	73	14	U	U
Benzoic Acid (ug/kg DW)	650	650	110	U	U
Dibenzofuran	15	58	3.04	U	U
Hexachlorobutadiene	3.9	6.2	3.28	U	U
N-Nitrosodiphenylamine	28	130	3.52	U	U

Table D-3. Subsurface Chemistry Data
(TOC Normalized)

Sample ID	WA	WA	A4-04-C1-3		
Collection Date	SQS	CSL	08/14/2008	LQ	VQ
PCBs in mg/kg TOC					
Aroclor-1221	—	—	2.67	U	U
Aroclor-1232	—	—	2.67	U	U
Aroclor-1242	—	—	2.67	U	U
Aroclor-1016	—	—	2.67	U	U
Aroclor-1248	—	—	2.67	U	U
Aroclor-1254	—	—	2.67	U	U
Aroclor-1260	—	—	2.67	U	U
Aroclor-1262	—	—	2.67	U	U
Aroclor-1268	—	—	2.67	U	U
Total PCBs*	12	65	2.67	U	U
Dioxin/Furan pg TEQ/g DW					
2,3,7,8-TCDD					
1,2,3,7,8-PECDD					
1,2,3,4,7,8-HXCDD					
1,2,3,6,7,8-HXCDD					
1,2,3,7,8,9-HXCDD					
1,2,3,4,6,7,8-HPCDD					
OCDD					
2,3,7,8-TCDF					
1,2,3,7,8-PECDF					
2,3,4,7,8-PECDF					
1,2,3,4,7,8-HXCDF					
1,2,3,6,7,8-HXCDF					
1,2,3,7,8,9-HXCDF					
2,3,4,6,7,8-HXCDF					
1,2,3,4,6,7,8-HPCDF					
1,2,3,4,7,8,9-HPCDF					
OCDF					
TEQ 0 DL					
TEQ 1/2 DL					

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A1-03-C1-3			A1-03-C3-5			A1-07-C1-3			A1-07-C3-5			A1-15-C1-3			A1-15-C3-5		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**
Conventionals																				
Total Organic Carbon (% DW)	—	—	5.67			1.58			5.97			4.19			0.324			0.173		
TVS (% DW)	—	—	30.83			7.49			16.44			16.94			1.77			1.8		
Total Solids (% DW)	—	—	34.6			53.9			30.1			33.1			76.2			73.1		
Preserved Total Solids (% DW)	—	—	36.7			45.8			32.5			35.1			71.5			71.6		
Ammonia (mg-N/kg DW)	—	—	208		J	141		J	229		J	273		J	4.57		J	14.8		J
Total Sulfides (mg/kg DW)	—	—	1230		J	401		J	0.01	U	UJ	1510		J	23.5		J	12.8		J
Grain Size																				
Phi Scale <-1	—	—	14.4			1.3			4.8			5.6			2.5			0.2		
Phi Scale -1 to 0	—	—	6.1			1.1			3.7			3.2			2.2			0.3		
Phi Scale 0 to 1	—	—	5.2			0.7			1.4			1.4			5			1		
Phi Scale 1 to 2	—	—	5.1			0.7			1.1			1			6.5			2.1		
Phi Scale 2 to 3	—	—	4.2			0.9			1.2			1			3.7			3.3		
Phi Scale 3 to 4	—	—	5.7		J	5.4		J	5.2			3.9			30.8			30.9		
Phi Scale 4 to 5	—	—	5.2			15.7			10.9			4.8			33			38		
Phi Scale 5 to 6	—	—	12.8			23.1			14.4			20.1			7.4			11.3		
Phi Scale 6 to 7	—	—	11.3			16.2			16.8			19.7			2.7			5.1		
Phi Scale 7 to 8	—	—	9.2			9.9			12.3			11.6			1.4			1.5		
Phi Scale 8 to 9	—	—	5.9			6.6			7.3			7.1			1			1.7		
Phi Scale 9 to 10	—	—	4.3			5.1			7.2			7.2			1.1			0.7		
Phi Scale >10	—	—	10.5			13.5			13.6			13.5			2.9			3.8		
Fines (Silt/Clay)	—	—	59.4			90.1			82.6			84			49.5			62.1		
Metals in mg/kg DW																				
Arsenic	57	93	1	U	U	13			2	U	U	2	U	U	0.6	U	U	0.7	U	U
Cadmium	5.1	6.7	2.3			0.9			3.3			3.3			0.02	U	U	0.03	U	U
Chromium	—	—	57			63.7			61			61			26.6			50.8		
Copper	390	390	115			67.6			85.2			101			15.6			17.9		
Lead	450	530	63			17			36			43			0.2	U	U	0.3	U	U
Mercury	0.41	0.59	0.4			0.17			0.2			0.3			0.006	U	U	0.006	U	U
Silver	6.1	6.1	0.3	U	U	0.2	U	U	0.4	U	U	0.34	U	U	0.13	U	U	0.15	U	U
Zinc	410	960	254			135			185			217			35			40		
LPAH in ug/kg DW																				
Naphthalene	2100	2100	190.00			32.00			28.00			28.00			8.40	U	U	8.50	U	U
Acenaphthylene	1300	1300	26.00	U	U	8.60	U	U	19.00	J	J	20.00			8.40	U	U	8.50	U	U
Acenaphthene	500	500	24.00	U	U	8.20	U	U	17.00	J	J	19.00	J	J	8.00	U	U	8.00	U	U
Fluorene	540	540	27.00	U	U	8.90	U	U	23.00			29.00			8.70	U	U	8.80	U	U
Phenanthrene	1500	1500	94.00			34.00			98.00			130.00			8.10	U	U	8.20	U	U
Anthracene	960	960	23.00	U	U	7.70	U	U	70.00			94.00			7.50	U	U	7.60	U	U
1-Methylnaphthalene	—	—	21.00	U	U	7.20	U	U	7.20	U	U	7.10	U	U	7.00	U	U	7.00	U	U
2-Methylnaphthalene	670	670	24.00	U	U	8.20	U	U	11.00	J	J	12.00	J	J	7.90	U	U	8.00	U	U
Total LPAH	5200	5200	284.00			66.00			255.00	J	J	320.00	J	J	8.70	U	U	8.80	U	U
HPAH in ug/kg DW																				
Fluoranthene	1700	2500	160.00			55.00			360.00			670.00			11.00	J	J	7.70	U	U
Pyrene	2600	3300	140.00			55.00			340.00			500.00			30.00			7.60	U	U
Benzo(a)anthracene	1300	1600	18.00	U	U	20.00			130.00			200.00			5.70	U	U	5.80	U	U
Chrysene	1400	2800	82.00			32.00			260.00			420.00			6.40	U	U	6.50	U	U
Benzo(b)fluoranthene	—	—	71.00			24.00			200.00			270.00			9.20	U	U	9.30	U	U
Benzo(k)fluoranthene	—	—	68.00			26.00			170.00			240.00			9.00	U	U	9.10	U	U
Benzofluoranthenes	3200	3600	139.00			50.00			370.00			510.00			9.20	U	U	9.30	U	U
Benzo(a)pyrene	1600	1600	24.00	U	U	20.00			150.00			210.00			7.90	U	U	8.00	U	U
Indeno(1,2,3-cd)pyrene	600	690	26.00	U	U	8.60	U	U	77.00			97.00			8.30	U	U	8.40	U	U
Dibenz(a,h)anthracene	230	230	25.00	U	U	8.50	U	U	24.00			40.00			8.30	U	U	8.40	U	U
Benzo(g,h,i)perylene	670	720	20.00	U	U	6.70	U	U	6.70	B	U	6.70	B	U	6.50	U	U	6.60	U	U
Total HPAH	12000	17000	521.00			232.00			1711.00			2647.00			41.00	J	J	9.30	U	U
Chlorinated Aromatics in ug/kg DW																				
1,3-Dichlorobenzene	—	—	22.00	U	U	7.40	U	U	7.40	U	U	7.40	U	U	7.20	U	U	7.30	U	U
1,4-Dichlorobenzene	110	110	22.00	U	U	7.30	U	U	7.30	U	U	7.30	U	U	7.10	U	U	7.20	U	U
1,2-Dichlorobenzene	35	50	23.00	U	U	7.90	U	U	7.90	U	U	7.80	U	U	7.60	U	U	7.70	U	U
1,2,4-Trichlorobenzene	31	51	27.00	U	U	9.10	U	U	9.10	U	U	9.00	U	U	8.80	U	U	8.90	U	U
Hexachlorobenzene	22	70	0.47	U	U	8.00	U	U	8.00	U	U	7.90	U	U	7.80	U	U	7.80	U	U
Phthalate Esters in ug/kg DW																				
Dimethylphthalate	71	160	23.00	U	U	7.70	U	U	7.70	U	U	7.70	U	U	7.50	U	U	7.60	U	U
Diethylphthalate	200	1200	49.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100	37.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900	33.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100	75.00			11.00	U	U	40.00			64.00			11.00	U	U	11.00	U	U
Di-n-Octylphthalate	6200	6200	25.00	U	U	8.30	U	U	8.30	U	U	8.30	U	U	8.10	U	U	8.20	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	85			14	U	U	14	U	U	21			13	U	U	13	U	U
2-Methylphenol	63	63	42	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	2300			230			120			64			12	U	U	13	U	U
2,4-Dimethylphenol	29	29	44	U	U	15	U	U	15	U	U	15	U	U	14	U	U	14	U	U
Pentachlorophenol	360	690	140	U	U	47	U	U	48	U	U	47	U	U	46	U	U	47	U	U
Miscellaneous Extractables in ug/kg DW																				
Benzyl Alcohol	57	73	43	U	UJ	14	U	UJ	14	U	U	14	U	U	14	U	U	14	U	U
Benzoic Acid	650	650	340	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540	22.00	U	U	7.50	U	U	16.00	J	J	19.00	J	J	7.30	U	U	7.40	U	U
Hexachlorobutadiene	11	120	0.52	U	U	8.10	U	U	8.10	U	U	8.00	U	U	7.90	U	U	7.90	U	U
N-Nitrosodiphenylamine	28	40	26.00	U	U	8.70	U	U	8.70	U	U	8.60	U	U	8.40	U	U	8.50	U	U

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A1-03-C1-3			A1-03-C3-5			A1-07-C1-3			A1-07-C3-5			A1-15-C1-3			A1-15-C3-5		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**
PCBs in ug/kg DW																				
Aroclor-1221	–	–	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.50	U	U	6.50	U	U
Aroclor-1232	–	–	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.50	U	U	6.50	U	U
Aroclor-1242	–	–	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.50	U	U	6.50	U	U
Aroclor-1016	–	–	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.50	U	U	6.50	U	U
Aroclor-1248	–	–	6.60	Y	U	6.50	U	U	6.60	U	U	29.00			6.50	U	U	6.50	U	U
Aroclor-1254	–	–	120.00			6.50	U	U	6.60	U	U	25.00			6.50	U	U	6.50	U	U
Aroclor-1260	–	–	90.00			6.50	U	U	6.60	U	U	6.60	U	U	6.50	U	U	6.50	U	U
Aroclor-1262	–	–	6.60	U	U	6.50	U	U	6.60	U	U	6.60	U	U	6.50	U	U	6.50	U	U
Aroclor-1268	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.50	U	U	6.50	U	U
Total PCBs	130	1000	210.00			6.50	U	U	6.50	U	U	54.00			6.50	U	U	6.50	U	U
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	–	–																		
1,2,3,7,8-PECDD	–	–																		
1,2,3,4,7,8-HXCDD	–	–																		
1,2,3,6,7,8-HXCDD	–	–																		
1,2,3,7,8,9-HXCDD	–	–																		
1,2,3,4,6,7,8-HPCDD	–	–																		
OCDD	–	–																		
2,3,7,8-TCDF	–	–																		
1,2,3,7,8-PECDF	–	–																		
2,3,4,7,8-PECDF	–	–																		
1,2,3,4,7,8-HXCDF	–	–																		
1,2,3,6,7,8-HXCDF	–	–																		
1,2,3,7,8,9-HXCDF	–	–																		
2,3,4,6,7,8-HXCDF	–	–																		
1,2,3,4,6,7,8-HPCDF	–	–																		
1,2,3,4,7,8,9-HPCDF	–	–																		
OCDF	–	–																		
TEQ 0 DL	–	–																		
TEQ 1/2 DL	–	–																		

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A1-18-C1-3			A1-18-C3-5			A1-24-C1-3			A1-24-C3-5			A2-02-C1-3			A2-07-C1-3		
Collection Date	**SQS**	**CSL**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
Conventionals																				
Total Organic Carbon (% DW)	—	—	1.12			0.831			2.47			7.1			0.507			0.541		
TVS (% DW)	—	—	3.79			2.79			18.21			15.4			1.65			3.55		
Total Solids (% DW)	—	—	66.9			73.2			43.2			52.5			74.1			71.5		
Preserved Total Solids (% DW)	—	—	59.7			64.6			39.8			51.5			74.5			68.8		
Ammonia (mg-N/kg DW)	—	—	8.09		J	24.3		J	93.7		J	120		J	1.33		J	9.57		J
Total Sulfides (mg/kg DW)	—	—	98.8		J	187		J	799		J	300		J	0.01	U	UJ	86.4		J
Grain Size																				
Phi Scale <-1	—	—	0.1			2.9			10			2.5			0.1			1.2		
Phi Scale -1 to 0	—	—	0.5			4.1			4			3.3			0.1			0.4		
Phi Scale 0 to 1	—	—	2.2			10.6			5.5			4.7			3.6			1		
Phi Scale 1 to 2	—	—	9.3			16.5			7.9			8.4			41			8.2		
Phi Scale 2 to 3	—	—	5.3			6.6			5.7			11.8			45.6			43.5		
Phi Scale 3 to 4	—	—	21.4			14.1			10.1			12.1			4			30.6		
Phi Scale 4 to 5	—	—	18.8			18.6			10.9			12.7			1.6			6.3		
Phi Scale 5 to 6	—	—	15.5			10.4			11.4			11.6			0.7			2.6		
Phi Scale 6 to 7	—	—	8.2			5.1			9.4			8.5			0.9			1.9		
Phi Scale 7 to 8	—	—	5.4			3.2			6.4			7			0.6			1.2		
Phi Scale 8 to 9	—	—	3.8			2.1			4.9			4.9			0.4			0.7		
Phi Scale 9 to 10	—	—	2.6			1.8			4.8			4.6			0.3			0.8		
Phi Scale >10	—	—	7			4.1			8.9			8			1.1			1.7		
Fines (Silt/Clay)	—	—	61.2			45.3			56.8			57.3			5.6			15.1		
Metals in mg/kg DW																				
Arsenic	57	93	11			9			10			22			11			0.7	U	U
Cadmium	5.1	6.7	0.5			0.3			2			1.8			0.03	U	U	0.03	U	U
Chromium	—	—	41.7			36.7			53			47.4			27.6			31.7		
Copper	390	390	47			36.1			81.3			82			16.7			25.3		
Lead	450	530	11			8			55			50			5			6		
Mercury	0.41	0.59	0.12			0.09			0.3			0.28			0.006	U	U	0.006	U	U
Silver	6.1	6.1	0.16	U	U	0.15	U	U	0.24	U	U	0.19	U	U	0.14	U	U	0.14	U	U
Zinc	410	960	67			57			122			159			45			57		
LPAH in ug/kg DW																				
Naphthalene	2100	2100	200.00			38.00			270.00			510.00			8.60	U	U	12.00	J	J
Acenaphthylene	1300	1300	22.00			16.00	J	J	20.00			36.00			8.60	U	U	8.30	U	U
Acenaphthene	500	500	17.00	J	J	8.00	U	U	120.00			250.00			8.20	U	U	12.00	J	J
Fluorene	540	540	20.00			8.70	U	U	150.00			360.00			8.90	U	U	8.60	U	U
Phenanthrene	1500	1500	71.00			50.00			300.00			620.00			8.40	U	U	19.00	J	J
Anthracene	960	960	22.00			16.00	J	J	120.00			250.00			7.70	U	U	7.40	U	U
1-Methylnaphthalene	—	—	33.00			7.00	U	U	63.00			120.00			7.20	U	U	6.90	U	U
2-Methylnaphthalene	670	670	54.00			9.90	J	J	110.00			240.00			8.20	U	U	7.80	U	U
Total LPAH	5200	5200	352.00	J	J	120.00	J	J	980.00			2026.00			8.90	U	U	43.00	J	J
HPAH in ug/kg DW																				
Fluoranthene	1700	2500	84.00			72.00			270.00			390.00			7.90	U	U	20.00		
Pyrene	2600	3300	100.00			84.00			130.00			200.00			7.70	U	U	23.00		
Benzo(a)anthracene	1300	1600	35.00			26.00			77.00			82.00			5.90	U	U	16.00	J	J
Chrysene	1400	2800	42.00			37.00			160.00			160.00			6.60	U	U	22.00		
Benzo(b)fluoranthene	—	—	48.00			24.00			110.00			110.00			9.50	U	U	13.00	J	J
Benzo(k)fluoranthene	—	—	26.00			29.00			100.00			110.00			9.20	U	U	17.00	J	J
Benzofluoranthenes	3200	3600	74.00			53.00			210.00			220.00			9.50	U	U	30.00	J	
Benzo(a)pyrene	1600	1600	41.00			33.00			88.00			97.00			8.10	U	U	17.00	J	J
Indeno(1,2,3-cd)pyrene	600	690	34.00			19.00	J	J	32.00			33.00			8.60	U	U	8.20	U	U
Dibenz(a,h)anthracene	230	230	8.50	U	U	8.30	U	U	10.00	J	J	8.30	U	U	8.50	U	U	8.20	U	U
Benzo(g,h,i)perylene	670	720	6.70	B	U	6.60	B	U	6.60	B	U	6.60	B	U	6.70	U	U	6.50	U	U
Total HPAH	12000	17000	410.00			324.00	JB	J	977.00	J	J	1182.00			9.50	U	U	128.00	J	J
Chlorinated Aromatics in ug/kg DW																				
1,3-Dichlorobenzene	—	—	7.40	U	U	7.20	U	U	7.20	U	U	7.20	U	U	7.40	U	U	7.10	U	U
1,4-Dichlorobenzene	110	110	7.30	U	U	7.10	U	U	7.20	U	U	7.10	U	U	7.30	U	U	7.00	U	U
1,2-Dichlorobenzene	35	50	7.80	U	U	7.70	U	U	7.70	U	U	7.70	U	U	7.80	U	U	7.50	U	U
1,2,4-Trichlorobenzene	31	51	9.00	U	U	8.80	U	U	8.80	U	U	8.80	U	U	9.00	U	U	8.70	U	U
Hexachlorobenzene	22	70	8.00	U	U	7.80	U	U	7.80	U	U	7.80	U	U	8.00	U	U	7.70	U	U
Phthalate Esters in ug/kg DW																				
Dimethylphthalate	71	160	7.70	U	U	7.50	U	U	7.50	U	U	7.50	U	U	7.70	U	U	7.40	U	U
Diethylphthalate	200	1200	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100	12.00	U	U	12.00	U	U	41.00			47.00			12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100	11.00	J	J	11.00	U	U	22.00			11.00	U	U	11.00	U	U	11.00	U	U
Di-n-Octylphthalate	6200	6200	8.30	U	U	8.10	U	U	8.10	U	U	8.10	U	U	8.30	U	U	8.00	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	15	J	J	13	U	U	21			24			14	U	U	13	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	20			34			14	U	U	14	U	U
4-Methylphenol	670	670	31			12	U	U	870			890			13	U	U	12	U	U
2,4-Dimethylphenol	29	29	15	U	U	14	U	U	23			30			15	U	U	14	U	U
Pentachlorophenol	360	690	47	U	U	46	U	U	46	U	U	46	U	U	47	U	U	45	U	U
Miscellaneous Extractables in ug/kg DW																				
Benzyl Alcohol	57	73	14	U	U	14	U	U	14	U	U	14	U	U	14	U	UJ	14	U	U
Benzoic Acid	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540	13.00	J	J	7.30	U	U	110.00			220.00			7.50	U	U	7.20	U	U
Hexachlorobutadiene	11	120	8.10	U	U	7.90	U	U	7.90	U	U	7.90	U	U	8.10	U	U	7.80	U	U
N-Nitrosodiphenylamine	28	40	8.60	U	U	8.40	U	U	8.40	U	U	8.40	U	U	8.60	U	U	8.30	U	U

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A1-18-C1-3			A1-18-C3-5			A1-24-C1-3			A1-24-C3-5			A2-02-C1-3			A2-07-C1-3		
Collection Date	**SQS**	**CSL**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
PCBs in ug/kg DW																				
Aroclor-1221	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.40	U	U
Aroclor-1232	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.40	U	U
Aroclor-1242	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.40	U	U
Aroclor-1016	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.40	U	U
Aroclor-1248	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.40	U	U
Aroclor-1254	–	–	6.60	U	U	6.50	U	U	33.00	P		21.00			6.60	U	U	25.00		
Aroclor-1260	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.40	U	U
Aroclor-1262	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.40	U	U
Aroclor-1268	–	–	6.60	U	U	6.50	U	U	6.50	U	U	6.50	U	U	6.60	U	U	6.40	U	U
Total PCBs	130	1000	6.60	U	U	6.50	U	U	33.00	P		21.00			6.60	U	U	25.00		
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	–	–							1.34											
1,2,3,7,8-PECDD	–	–							3.09	J	J									
1,2,3,4,7,8-HXCDD	–	–							3.89	J	J									
1,2,3,6,7,8-HXCDD	–	–							16.6											
1,2,3,7,8,9-HXCDD	–	–							10											
1,2,3,4,6,7,8-HPCDD	–	–							267											
OCDD	–	–							2170											
2,3,7,8-TCDF	–	–							332											
1,2,3,7,8-PECDF	–	–							6.44											
2,3,4,7,8-PECDF	–	–							8.04											
1,2,3,4,7,8-HXCDF	–	–							16.5											
1,2,3,6,7,8-HXCDF	–	–							5.69											
1,2,3,7,8,9-HXCDF	–	–							0.83	J	J									
2,3,4,6,7,8-HXCDF	–	–							5.02											
1,2,3,4,6,7,8-HPCDF	–	–							94.4											
1,2,3,4,7,8,9-HPCDF	–	–							9.86											
OCDF	–	–							193											
TEQ 0 DL	–	–							50.5											
TEQ 1/2 DL	–	–							50.5											

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A2-11-C1-3			A2-18-C1-3			A2-18-C3-5			A2-25-C1-3			A2-25-C3-5			A2-30-C1-3		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**
Conventionals																				
Total Organic Carbon (% DW)	—	—	1.43			1.81			0.424			1.19			1.08			1.97		
TVS (% DW)	—	—	7.91			10.65			2.17			4.96			2.31			7.35		
Total Solids (% DW)	—	—	59.1			67.9			81.3			77.7			80.1			56.8		
Preserved Total Solids (% DW)	—	—	56.1			60.6			78.9			69.5			72.7			55.6		
Ammonia (mg-N/kg DW)	—	—	56.9		J	58.3		J	30.2		J	1.69		J	4.12		J	53.9		J
Total Sulfides (mg/kg DW)	—	—	800		J	55		J	585		J	9.64		J	23.8		J	1520		J
Grain Size																				
Phi Scale <-1	—	—	0.8			3.6			0.1			0.7			0.7			0.8		
Phi Scale -1 to 0	—	—	1.6			1.1			0.7			0.8			2.1			1.1		
Phi Scale 0 to 1	—	—	1.8			1.9			4.4			6.9			13.9			1.5		
Phi Scale 1 to 2	—	—	4.9			3.9			11.8			31.4			35.9			2.4		
Phi Scale 2 to 3	—	—	16.6			8.5			26.8			29.6			19.9			6.9		
Phi Scale 3 to 4	—	—	17.6			13.4		J	29.8		J	11.8		J	11.5		J	23.3		J
Phi Scale 4 to 5	—	—	14.7			21			12.5			6.7			6.3			25.1		
Phi Scale 5 to 6	—	—	12.3			19.3			5.3			4.1			3.3			15.1		
Phi Scale 6 to 7	—	—	9.1			9.8			2.9			3			1.9			8.1		
Phi Scale 7 to 8	—	—	6			5.4			1.8			1.8			1.6			4.9		
Phi Scale 8 to 9	—	—	4.4			3.8			1.3			0.9			0.7			3.1		
Phi Scale 9 to 10	—	—	3.4			2.8			1			0.8			0.7			2.2		
Phi Scale >10	—	—	6.8			5.5			1.6			1.5			1.4			5.4		
Fines (Silt/Clay)	—	—	56.7			67.5			26.4			18.9			15.9			64		
Metals in mg/kg DW																				
Arsenic	57	93	16			13			11			8			8			17		
Cadmium	5.1	6.7	0.5			0.4			0.02	U	U	0.02	U	U	0.02	U	U	0.4		
Chromium	—	—	50.6			42.3			37.3			34.2			33.3			51.5		
Copper	390	390	55.6			40.9			24.5			26.2			22.7			52.5		
Lead	450	530	22			14			6			5			5			11		
Mercury	0.41	0.59	0.16			0.1			0.004	U	U	0.006	U	U	0.005	U	U	0.08		
Silver	6.1	6.1	0.19	U	U	0.15	U	U	0.12	U	U	0.14	U	U	0.14	U	U	0.19	U	U
Zinc	410	960	87			70			51			51			50			94		
LPAH in ug/kg DW																				
Naphthalene	2100	2100	42.00			35.00			8.50	U	U	24.00			33.00			8.50	U	U
Acenaphthylene	1300	1300	36.00			8.40	U	U	8.40	U	U	8.40	U	U	8.60	U	U	8.50	U	U
Acenaphthene	500	500	19.00	J	J	8.00	U	U	8.00	U	U	8.00	U	U	8.20	U	U	8.00	U	U
Fluorene	540	540	28.00			8.70	U	U	8.70	U	U	8.70	U	U	8.90	U	U	8.80	U	U
Phenanthrene	1500	1500	77.00			36.00			8.20	U	U	8.20	U	U	68.00			38.00		
Anthracene	960	960	81.00			7.50	U	U	7.50	U	U	7.50	U	U	42.00			25.00		
1-Methylnaphthalene	—	—	25.00			7.00	U	U	7.00	U	U	7.00	U	U	7.20	U	U	7.00	U	U
2-Methylnaphthalene	670	670	30.00			8.00	U	U	8.00	U	U	8.00	U	U	8.20	U	U	8.00	U	U
Total LPAH	5200	5200	283.00	J	J	71.00			8.70	U	U	24.00			143.00			63.00		
HPAH in ug/kg DW																				
Fluoranthene	1700	2500	540.00			56.00			7.70	U	U	27.00			90.00			160.00		
Pyrene	2600	3300	510.00			56.00			7.60	U	U	34.00			120.00			140.00		
Benzo(a)anthracene	1300	1600	190.00			23.00			5.80	U	U	24.00			52.00			66.00		
Chrysene	1400	2800	220.00			36.00			6.50	U	U	33.00			61.00			110.00		
Benzo(b)fluoranthene	—	—	100.00			30.00			9.30	U	U	21.00			35.00			100.00		
Benzo(k)fluoranthene	—	—	120.00			9.00	U	U	9.00	U	U	25.00			39.00			63.00		
Benzofluoranthenes	3200	3600	220.00			30.00			9.30	U	U	46.00			74.00			163.00		
Benzo(a)pyrene	1600	1600	130.00			27.00			8.00	U	U	29.00			60.00			64.00		
Indeno(1,2,3-cd)pyrene	600	690	38.00			8.40	U	U	8.40	U	U	8.40	U	U	31.00			25.00		
Dibenz(a,h)anthracene	230	230	8.30	U	U	8.30	U	U	8.30	U	U	8.30	U	U	8.50	U	U	8.40	U	U
Benzo(g,h,i)perylene	670	720	6.50	B	U	6.60	U	U	6.60	U	U	6.60	U	U	35.00			23.00		
Total HPAH	12000	17000	1848.00			228.00			9.30	U	U	193.00			488.00			751.00		
Chlorinated Aromatics in ug/kg DW																				
1,3-Dichlorobenzene	—	—	7.20	U	U	7.20	U	U	7.30	U	U	7.20	U	U	7.40	U	U	7.30	U	U
1,4-Dichlorobenzene	110	110	7.10	U	U	7.20	U	U	7.20	U	U	7.20	U	U	7.30	U	U	7.20	U	U
1,2-Dichlorobenzene	35	50	7.60	U	U	7.70	U	U	7.70	U	U	7.70	U	U	7.80	U	U	7.70	U	U
1,2,4-Trichlorobenzene	31	51	8.80	U	U	8.80	U	U	8.80	U	U	8.80	U	U	9.00	U	U	8.90	U	U
Hexachlorobenzene	22	70	7.80	U	U	7.80	U	U	7.80	U	U	7.80	U	U	8.00	U	U	7.80	U	U
Phthalate Esters in ug/kg DW																				
Dimethylphthalate	71	160	7.50	U	U	7.50	U	U	7.60	U	U	7.50	U	U	7.70	U	U	7.60	U	U
Diethylphthalate	200	1200	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U
Di-n-Butylphthalate	1400	5100	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	24.00		
Di-n-Octylphthalate	6200	6200	8.10	U	U	8.10	U	U	8.10	U	U	8.10	U	U	8.30	U	U	8.20	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	16	J	J	13	U	U	13	U	U	13	U	U	14	U	U	13	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	74			36			12	U	U	23			13	U	U	13	U	U
2,4-Dimethylphenol	29	29	14	U	U	14	U	U	14	U	U	14	U	U	15	U	U	14	U	U
Pentachlorophenol	360	690	46	U	U	46	U	U	46	U	U	46	U	U	47	U	U	47	U	U
Miscellaneous Extractables in ug/kg DW																				
Benzyl Alcohol	57	73	14	U	U	14	U	UJ	14	U	UJ	14	U	UJ	14	U	UJ	14	U	UJ
Benzoic Acid	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540	10.00	J	J	7.30	U	U	7.40	U	U	7.40	U	U	7.50	U	U	7.40	U	U
Hexachlorobutadiene	11	120	7.90	U	U	7.90	U	U	7.90	U	U	7.90	U	U	8.10	U	U	7.90	U	U
N-Nitrosodiphenylamine	28	40	8.40	U	U	8.40	U	U	8.50	U	U	8.40	U	U	8.60	U	U	8.50	U	U

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A2-11-C1-3			A2-18-C1-3			A2-18-C3-5			A2-25-C1-3			A2-25-C3-5			A2-30-C1-3		
Collection Date	SQS	CSL	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ	08/13/2008	LQ	VQ
PCBs in ug/kg DW																				
Aroclor-1221	–	–	6.50	U	U	6.40	U	U	6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Aroclor-1232	–	–	6.50	U	U	6.40	U	U	6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Aroclor-1242	–	–	6.50	U	U	6.40	U	U	6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Aroclor-1016	–	–	6.50	U	U	6.40	U	U	6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Aroclor-1248	–	–	24.00			6.40	U	U	6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Aroclor-1254	–	–	23.00			23.00			6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Aroclor-1260	–	–	6.50	U	U	6.40	U	U	6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Aroclor-1262	–	–	6.50	U	U	6.40	U	U	6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Aroclor-1268	–	–	6.50	U	U	6.40	U	U	6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Total PCBs	130	1000	47.00			23.00			6.30	U	U	6.30	U	U	6.50	U	U	6.40	U	U
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	–	–				0.884												0.047	KJ	U
1,2,3,7,8-PECDD	–	–				1.46	J	J										0.458	J	J
1,2,3,4,7,8-HXCDD	–	–				2.06	J	J										0.706	J	J
1,2,3,6,7,8-HXCDD	–	–				6.65												2.58	J	J
1,2,3,7,8,9-HXCDD	–	–				5.86												0.16	KJ	U
1,2,3,4,6,7,8-HPCDD	–	–				116												56.4		
OCDD	–	–				881												608		
2,3,7,8-TCDF	–	–				6.64												0.766	J	J
1,2,3,7,8-PECDF	–	–				1.19	J	J										0.0893	KJ	U
2,3,4,7,8-PECDF	–	–				1.52	J	J										0.351	J	J
1,2,3,4,7,8-HXCDF	–	–				2.06	J	J										0.632	J	J
1,2,3,6,7,8-HXCDF	–	–				1.23	J	J										0.436	J	J
1,2,3,7,8,9-HXCDF	–	–				0.118	J	J										0.0874	U	U
2,3,4,6,7,8-HXCDF	–	–				1.25	J	J										0.47	J	J
1,2,3,4,6,7,8-HPCDF	–	–				32.7												8.67		
1,2,3,4,7,8,9-HPCDF	–	–				2.21	J	J										0.674	J	J
OCDF	–	–				109												22		
TEQ 0 DL	–	–				7.23												1.97		
TEQ 1/2 DL	–	–				7.23												2.01		

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A2-30-C3-5			A2-32-C1-3			A2-32-C3-5			A2-37B-C1-3			A3-05-C1-3			A3-05-C3-5		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
Conventionals																				
Total Organic Carbon (% DW)	—	—	1.92			0.321			0.162			1.18			0.31			0.165		
TVS (% DW)	—	—	8.39			0.91			0.89			4.71			1.03			0.93		
Total Solids (% DW)	—	—	61.2			91.1			93.1			59.3			76.3			85.6		
Preserved Total Solids (% DW)	—	—	52.2			79			86.1			59			75.6			72.8		
Ammonia (mg-N/kg DW)	—	—	55.1		J	0.03	U	UJ	0.17		J	17.9		J	0.03	U	UJ	0.03	U	UJ
Total Sulfides (mg/kg DW)	—	—	283		J	0.01	U	UJ	0.01	U	UJ	1360		J	16.4		J	1.76		J
Grain Size																				
Phi Scale <-1	—	—	2.7			1.6			5.5			0.3			0.3			2.3		
Phi Scale -1 to 0	—	—	2.5			8.9			12.7			0.7			1			3.5		
Phi Scale 0 to 1	—	—	6.7			45.6			43			1.1			7.6			10.5		
Phi Scale 1 to 2	—	—	9.4			40.5			35.4			4.6			45.8			48.2		
Phi Scale 2 to 3	—	—	11.5			2.3			1.3			18			37			32.7		
Phi Scale 3 to 4	—	—	23.5		J	0.2		J	0.1		J	25.7			5.5		J	2.8		J
Phi Scale 4 to 5	—	—	15.9									17.6								
Phi Scale 5 to 6	—	—	8.9									12.8								
Phi Scale 6 to 7	—	—	6.5									6.9								
Phi Scale 7 to 8	—	—	3.6									4.3								
Phi Scale 8 to 9	—	—	2.3									2.6								
Phi Scale 9 to 10	—	—	2.2									2.3								
Phi Scale >10	—	—	4.4									3.2								
Fines (Silt/Clay)	—	—	43.7			0.9			2			49.6			2.8			0.1		
Metals in mg/kg DW																				
Arsenic	57	93	12			7			8			12			0.6	U	U	0.6	U	U
Cadmium	5.1	6.7	0.03	U	U	0.02	U	U	0.02	U	U	0.3			0.02	U	U	0.02	U	U
Chromium	—	—	44.3			23.7			21.6			45.2			26.4			25.2		
Copper	390	390	41.3			17.7			15.7			43.5			14.9			13.3		
Lead	450	530	11			3			0.2	U	U	10			3			2		
Mercury	0.41	0.59	0.007	U	U	0.004	U	U	0.004	U	U	0.09			0.005	U	U	0.004	U	U
Silver	6.1	6.1	0.17	U	U	0.12	U	U	0.13	U	U	0.17	U	U	0.13	U	U	0.13	U	U
Zinc	410	960	70			42			36			77			37			39		
LPAH in ug/kg DW																				
Naphthalene	2100	2100	26.00			8.40	U	U	8.40	U	U	34.00			8.40	U	U	8.60	U	U
Acenaphthylene	1300	1300	52.00			8.40	U	U	8.40	U	U	12.00	J	J	8.40	U	U	8.50	U	U
Acenaphthene	500	500	22.00			8.00	U	U	8.00	U	U	13.00	J	J	8.00	U	U	8.10	U	U
Fluorene	540	540	8.90	U	U	8.70	U	U	8.70	U	U	11.00	J	J	8.70	U	U	8.80	U	U
Phenanthrene	1500	1500	60.00			8.10	U	U	8.20	U	U	38.00			8.10	U	U	8.30	U	U
Anthracene	960	960	40.00			7.50	U	U	7.50	U	U	12.00	J	J	7.50	U	U	7.60	U	U
1-Methylnaphthalene	—	—	7.10	U	U	7.00	U	U	7.00	U	U	6.90	U	U	7.00	U	U	7.10	U	U
2-Methylnaphthalene	670	670	8.10	U	U	7.90	U	U	8.00	U	U	9.60	J	J	7.90	U	U	8.10	U	U
Total LPAH	5200	5200	200.00			8.70	U	U	8.70	U	U	120.00	J	J	8.70	U	U	8.80	U	U
HPAH in ug/kg DW																				
Fluoranthene	1700	2500	470.00			7.70	U	U	7.70	U	U	60.00			7.70	U	U	7.80	U	U
Pyrene	2600	3300	470.00			7.50	U	U	7.60	U	U	62.00			7.50	U	U	7.60	U	U
Benzo(a)anthracene	1300	1600	250.00			5.70	U	U	5.80	U	U	21.00			5.70	U	U	5.80	U	U
Chrysene	1400	2800	360.00			6.40	U	U	6.50	U	U	25.00			6.40	U	U	6.50	U	U
Benzo(b)fluoranthene	—	—	330.00			9.20	U	U	9.30	U	U	22.00			9.20	U	U	9.40	U	U
Benzo(k)fluoranthene	—	—	180.00			9.00	U	U	9.00	U	U	29.00			9.00	U	U	9.10	U	U
Benzofluoranthenes	3200	3600	510.00			9.20	U	U	9.30	U	U	51.00			9.20	U	U	9.40	U	U
Benzo(a)pyrene	1600	1600	260.00			7.90	U	U	7.90	U	U	22.00			7.90	U	U	8.00	U	U
Indeno(1,2,3-cd)pyrene	600	690	69.00			8.30	U	U	8.40	U	U	14.00	J	J	8.30	U	U	8.50	U	U
Dibenz(a,h)anthracene	230	230	33.00			8.30	U	U	8.30	U	U	8.20	U	U	8.30	U	U	8.40	U	U
Benzo(g,h,i)perylene	670	720	69.00			6.50	U	U	6.60	U	U	6.50	U	U	6.50	U	U	6.70	U	U
Total HPAH	12000	17000	2491.00			9.20	U	U	9.30	U	U	255.00	J	J	9.20	U	U	9.40	U	U
Chlorinated Aromatics in ug/kg DW																				
1,3-Dichlorobenzene	—	—	7.40	U	U	7.20	U	U	7.20	U	U	7.20	U	U	7.20	U	U	7.30	U	U
1,4-Dichlorobenzene	110	110	7.30	U	U	7.10	U	U	7.20	U	U	7.10	U	U	7.10	U	U	7.30	U	U
1,2-Dichlorobenzene	35	50	7.80	U	U	7.60	U	U	7.70	U	U	7.60	U	U	7.60	U	U	7.80	U	U
1,2,4-Trichlorobenzene	31	51	9.00	U	U	8.80	U	U	8.80	U	U	8.70	U	U	8.80	U	U	9.00	U	U
Hexachlorobenzene	22	70	8.00	U	U	7.80	U	U	7.80	U	U	7.70	U	U	7.80	U	U	7.90	U	U
Phthalate Esters in ug/kg DW																				
Dimethylphthalate	71	160	7.70	U	U	7.50	U	U	7.60	U	U	7.50	U	U	7.50	U	U	7.60	U	U
Diethylphthalate	200	1200	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	16.00	U	U	31.00		
Di-n-Butylphthalate	1400	5100	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U	12.00	U	U
Butylbenzylphthalate	63	900	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100	32.00			11.00	U	U	11.00	U	U	15.00	J	J	11.00	U	U	11.00	U	U
Di-n-Octylphthalate	6200	6200	8.30	U	U	8.10	U	U	8.10	U	U	8.00	U	U	8.10	U	U	8.20	U	U
Phenols in ug/kg DW																				
Phenol	420	1200	14	U	U	13	U	U	13	U	U	13	U	U	13	U	U	14	U	U
2-Methylphenol	63	63	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U	14	U	U
4-Methylphenol	670	670	13	U	U	12	U	U	12	U	U	59			12	U	U	13	U	U
2,4-Dimethylphenol	29	29	15	U	U	14	U	U	14	U	U	14	U	U	14	U	U	15	U	U
Pentachlorophenol	360	690	47	U	U	46	U	U	46	U	U	46	U	U	46	U	U	47	U	U
Miscellaneous Extractables in ug/kg DW																				
Benzyl Alcohol	57	73	14	U	UJ	14	U	UJ	14	U	UJ	14	U	U	14	U	UJ	14	U	UJ
Benzoic Acid	650	650	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U	110	U	U
Dibenzofuran	540	540	7.50	U	U	7.30	U	U	7.40	U	U	7.30	U	U	7.30	U	U	7.50	U	U
Hexachlorobutadiene	11	120	8.10	U	U	7.90	U	U	7.90	U	U	7.80	U	U	7.90	U	U	8.00	U	U
N-Nitrosodiphenylamine	28	40	8.60	U	U	8.40	U	U	8.40	U	U	8.30	U	U	8.40	U	U	8.60	U	U

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A2-30-C3-5			A2-32-C1-3			A2-32-C3-5			A2-37B-C1-3			A3-05-C1-3			A3-05-C3-5		
Collection Date	**SQS**	**CSL**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/13/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
PCBs in ug/kg DW																				
Aroclor-1221	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Aroclor-1232	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Aroclor-1242	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Aroclor-1016	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Aroclor-1248	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Aroclor-1254	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Aroclor-1260	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Aroclor-1262	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Aroclor-1268	–	–	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Total PCBs	130	1000	6.60	U	U	6.40	U	U	6.40	U	U	6.50	U	U	6.40	U	U	6.40	U	U
Dioxin/Furan pg TEQ/g DW																				
2,3,7,8-TCDD	–	–				0.0405	U	U							0.046	U	U			
1,2,3,7,8-PECDD	–	–				0.105	U	U							0.12	U	U			
1,2,3,4,7,8-HXCDD	–	–				0.154	U	U							0.175	U	U			
1,2,3,6,7,8-HXCDD	–	–				0.146	U	U							0.166	U	U			
1,2,3,7,8,9-HXCDD	–	–				0.138	U	U							0.156	U	U			
1,2,3,4,6,7,8-HPCDD	–	–				0.246	J	J							1.05	J	J			
OCDD	–	–				1.9	J	J							10.3					
2,3,7,8-TCDF	–	–				0.0405	U	U							0.046	KJ	U			
1,2,3,7,8-PECDF	–	–				0.0769	U	U							0.0874	U	U			
2,3,4,7,8-PECDF	–	–				0.0778	U	U							0.0883	U	U			
1,2,3,4,7,8-HXCDF	–	–				0.0737	U	U							0.0837	U	U			
1,2,3,6,7,8-HXCDF	–	–				0.0972	U	U							0.11	U	U			
1,2,3,7,8,9-HXCDF	–	–				0.0753	U	U							0.0856	U	U			
2,3,4,6,7,8-HXCDF	–	–				0.0972	U	U							0.11	U	U			
1,2,3,4,6,7,8-HPCDF	–	–				0.087	J	J							0.147	J	J			
1,2,3,4,7,8,9-HPCDF	–	–				0.0713	U	U							0.081	U	U			
OCDF	–	–				0.227	U	U							0.258	U	U			
TEQ 0 DL	–	–				0.0039									0.0151					
TEQ 1/2 DL	–	–				0.131									0.16					

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID	88 Dry	88 Dry	A4-04-C1-3		
Collection Date	SQS	CSL	08/14/2008	LQ	VQ
Conventionals					
Total Organic Carbon (% DW)	—	—	0.247		
TVS (% DW)	—	—	0.99		
Total Solids (% DW)	—	—	83.9		
Preserved Total Solids (% DW)	—	—	78.7		
Ammonia (mg-N/kg DW)	—	—	0.03	U	UJ
Total Sulfides (mg/kg DW)	—	—	0.01	U	UJ
Grain Size					
Phi Scale <-1	—	—	0.5		
Phi Scale -1 to 0	—	—	5.4		
Phi Scale 0 to 1	—	—	31.8		
Phi Scale 1 to 2	—	—	48.6		
Phi Scale 2 to 3	—	—	10.9		
Phi Scale 3 to 4	—	—	1.2		
Phi Scale 4 to 5	—	—			
Phi Scale 5 to 6	—	—			
Phi Scale 6 to 7	—	—			
Phi Scale 7 to 8	—	—			
Phi Scale 8 to 9	—	—			
Phi Scale 9 to 10	—	—			
Phi Scale >10	—	—			
Fines (Silt/Clay)	—	—	1.6		
Metals in mg/kg DW					
Arsenic	57	93	8		
Cadmium	5.1	6.7	0.02	U	U
Chromium	—	—	26		
Copper	390	390	15.1		
Lead	450	530	3		
Mercury	0.41	0.59	0.005	U	U
Silver	6.1	6.1	0.13	U	U
Zinc	410	960	44		
LPAH in ug/kg DW					
Naphthalene	2100	2100	8.70	U	U
Acenaphthylene	1300	1300	8.60	U	U
Acenaphthene	500	500	8.20	U	U
Fluorene	540	540	8.90	U	U
Phenanthrene	1500	1500	8.40	U	U
Anthracene	960	960	7.70	U	U
1-Methylnaphthalene	—	—	7.20	U	U
2-Methylnaphthalene	670	670	8.20	U	U
Total LPAH	5200	5200	8.90	U	U
HPAH in ug/kg DW					
Fluoranthene	1700	2500	7.90	U	U
Pyrene	2600	3300	7.70	U	U
Benzo(a)anthracene	1300	1600	5.90	U	U
Chrysene	1400	2800	6.60	U	U
Benzo(b)fluoranthene	—	—	9.50	U	U
Benzo(k)fluoranthene	—	—	9.20	U	U
Benzofluoranthenes	3200	3600	9.50	U	U
Benzo(a)pyrene	1600	1600	8.10	U	U
Indeno(1,2,3-cd)pyrene	600	690	8.60	U	U
Dibenz(a,h)anthracene	230	230	8.50	U	U
Benzo(g,h,i)perylene	670	720	6.70	U	U
Total HPAH	12000	17000	9.50	U	U
Chlorinated Aromatics in ug/kg DW					
1,3-Dichlorobenzene	—	—	7.40	U	U
1,4-Dichlorobenzene	110	110	7.30	U	U
1,2-Dichlorobenzene	35	50	7.90	U	U
1,2,4-Trichlorobenzene	31	51	9.10	U	U
Hexachlorobenzene	22	70	8.00	U	U
Phthalate Esters in ug/kg DW					
Dimethylphthalate	71	160	7.70	U	U
Diethylphthalate	200	1200	16.00	U	U
Di-n-Butylphthalate	1400	5100	12.00	U	U
Butylbenzylphthalate	63	900	11.00	U	U
bis(2-Ethylhexyl)phthalate	1300	3100	11.00	U	U
Di-n-Octylphthalate	6200	6200	8.30	U	U
Phenols in ug/kg DW					
Phenol	420	1200	14	U	U
2-Methylphenol	63	63	14	U	U
4-Methylphenol	670	670	13	U	U
2,4-Dimethylphenol	29	29	15	U	UJ
Pentachlorophenol	360	690	47	U	U
Miscellaneous Extractables in ug/kg DW					
Benzyl Alcohol	57	73	14	U	U
Benzoic Acid	650	650	110	U	U
Dibenzofuran	540	540	7.50	U	U
Hexachlorobutadiene	11	120	8.10	U	U
N-Nitrosodiphenylamine	28	40	8.70	U	U

Table D-4. Subsurface Chemistry Data
(Dry Weight)

Sample ID Collection Date	88 Dry SQS	88 Dry CSL	A4-04-C1-3 08/14/2008	LQ	VQ
PCBs in ug/kg DW					
Aroclor-1221	—	—	6.60	U	U
Aroclor-1232	—	—	6.60	U	U
Aroclor-1242	—	—	6.60	U	U
Aroclor-1016	—	—	6.60	U	U
Aroclor-1248	—	—	6.60	U	U
Aroclor-1254	—	—	6.60	U	U
Aroclor-1260	—	—	6.60	U	U
Aroclor-1262	—	—	6.60	U	U
Aroclor-1268	—	—	6.60	U	U
Total PCBs	130	1000	6.60	U	U
Dioxin/Furan pg TEQ/g DW					
2,3,7,8-TCDD	—	—			
1,2,3,7,8-PECDD	—	—			
1,2,3,4,7,8-HXCDD	—	—			
1,2,3,6,7,8-HXCDD	—	—			
1,2,3,7,8,9-HXCDD	—	—			
1,2,3,4,6,7,8-HPCDD	—	—			
OCDD	—	—			
2,3,7,8-TCDF	—	—			
1,2,3,7,8-PECDF	—	—			
2,3,4,7,8-PECDF	—	—			
1,2,3,4,7,8-HXCDF	—	—			
1,2,3,6,7,8-HXCDF	—	—			
1,2,3,7,8,9-HXCDF	—	—			
2,3,4,6,7,8-HXCDF	—	—			
1,2,3,4,6,7,8-HPCDF	—	—			
1,2,3,4,7,8,9-HPCDF	—	—			
OCDF	—	—			
TEQ 0 DL	—	—			
TEQ 1/2 DL	—	—			

Table D-5. Conventional and Mercury Results for Bioassay Samples

Sample ID	PG-A1-01-S			PG-A1-03-S			PG-A1-07-S			PG-A1-10-S			PG-A1-16-S			PG-A1-24-S			PG-A2-10-S			PG-A2-11-S			PG-A2-13-S		
Collection Date	**10/06/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**
Conventionals																											
Total Organic Carbon (% DW)	5.71			7.03			5.02			3.18			2.55			2.42			0.881			1.27			1.82		
TVS (% DW)	20.31			21.06			19.02			15.13			3.78			11.78			3.82			2.78			6.55		
Total Solids (% DW)	35.1			30.5			26.6			35.8			68.9			47.9			65.3			69.3			52.6		
Preserved Total Solids (% DW)																											
Ammonia (mg-N/kg DW)	16.2			23.5			45.5			20.3			3.19			5.1			3.89			8.59			12.6		
Total Sulfides (mg/kg DW)	750			75			2400			590			22			160			5.2	B		7.6	U		98		
Grain Size																											
Phi Scale <-1	10.4			12.6			3.2			4.8			1.8			1.5			0.3			1.5			0.3		
Phi Scale -1 to 0	3.9			9.2			4.4			7.6			5.3			2.1			0.9			0.7			2.1		
Phi Scale 0 to 1	3.6			5.9			5			8.7			19.3			3.8			0.7			1.1			1.6		
Phi Scale 1 to 2	6.5			6.4			6.4			13.3			26.3			5.5			1.1			20.4			2.3		
Phi Scale 2 to 3	13.1			5.8			6.4			10.4			10.3			12.1			25.1			57.4			4.3		
Phi Scale 3 to 4	14.3			7.2			9.4			10.8			15.2			23.8			38.5			10.2			10.4		
Phi Scale 4 to 5	8.4			5.8			8.3			7.3			7.2			16.2			14.2			2.6			21		
Phi Scale 5 to 6	8.2			11.1			28.2			7.8			3.9			9.2			5.6			1.7			18.5		
Phi Scale 6 to 7	9.7			13			9.8			8.7			3.3			6.4			4.1			1.4			15.6		
Phi Scale 7 to 8	5.4			5.9			3.4			5.5			1.5			4.7			2.7			0.6			6.8		
Phi Scale 8 to 9	4.3			3.7			2.2			3.5			1.4			3.5			2			0.5			4.2		
Phi Scale 9 to 10	3.7			3.7			2.2			3.9			1.5			3.8			1.6			0.5			4.6		
Phi Scale >10	8.3			9.6			11.1			7.7			3.1			7.3			3.2			1.5			8		
Fines (Silt/Clay)	48.1			52.9			65.2			44.4			21.9			51.1			33.5			8.7			78.9		
Metals in mg/kg DW																											
Mercury							0.017	U								0.0054	U								0.1		

Table D-5. Conventional and Mercury Results for Bioassay Samples

Sample ID	PG-A2-14-S			PG-A2-18-S			PG-A2-21-S			PG-A2-25-S			PG-A2-36-S			PG-A3-05E-S			PG-A3-07B-S			PG-A4-08B-S		
Collection Date	**10/07/2008**	**LQ**	**VQ**	**10/07/2008**	**LQ**	**VQ**	**10/06/2008**	**LQ**	**VQ**	**10/07/2008**	**LQ**	**VQ**	**10/07/2008**	**LQ**	**VQ**	**10/08/2008**	**LQ**	**VQ**	**10/08/2008**	**LQ**	**VQ**	**10/08/2008**	**LQ**	**VQ**
Conventionals																								
Total Organic Carbon (% DW)	0.802			1.2			1.65			0.867			1.33			0.617			1.37			1.22		
TVS (% DW)	7.96			4.53			6.16			5.77			3.99			2.89			5.14			5.79		
Total Solids (% DW)	54.8			59.6			54.7			57.7			63.2			68.1			58.9			56.1		
Preserved Total Solids (% DW)																								
Ammonia (mg-N/kg DW)	21.5			4.37			13.3			5.79			7.77			6.26			6.85			5.71		
Total Sulfides (mg/kg DW)	330			67			380			56			140			8.5	U		9.3	U		5.6	B	
Grain Size																								
Phi Scale <-1	0.4			0.4			0.2			0.3			0.1	U		0.1			0.1			0.8		
Phi Scale -1 to 0	1.9			0.8			0.8			1.1			0.7			0.4			1.2			1.4		
Phi Scale 0 to 1	1.5			2			1.3			1.2			1			0.5			0.9			1.2		
Phi Scale 1 to 2	1.5			8.1			3.3			2.9			11.9			0.9			2			1.1		
Phi Scale 2 to 3	6.2			16.2			6.9			8.9			33.8			21.7			14.2			4.6		
Phi Scale 3 to 4	33.3			13.8			26.2			28			19.2			49.7			26.8			34		
Phi Scale 4 to 5	21.3			20.6			26.1			29.9			11.8			14.4			18.8			24.4		
Phi Scale 5 to 6	11			13.6			12.9			10.5			7			3.3			11.4			10		
Phi Scale 6 to 7	8.1			9.1			8.3			5.5			5.5			2.5			8.6			7.5		
Phi Scale 7 to 8	4.9			5			6.1			3.3			3.6			1.8			6.1			6		
Phi Scale 8 to 9	2.7			3.3			2.9			2.4			1.8			1.2			2.8			3		
Phi Scale 9 to 10	2.5			2.9			1.8			2.2			1.3			1.3			2.5			2		
Phi Scale >10	4.5			4.3			3.3			3.8			2.5			2.3			4.6			4		
Fines (Silt/Clay)	55.2			58.7			61.4			57.7			33.5			26.8			54.8			56.9		
Metals in mg/kg DW																								
Mercury																								

Table D-6. Crab, English Sole, and Clam Tissue Chemistry

Sample ID	A1-T3-DC-H-A			A1-T3-DC-M-A			A1-T3-ES-A			A2-T1-DC-H-A			A2-T1-DC-M-A			A2-T1-ES-A			A2-T1-ES-A*		
Collection Date	**08/08/2008**	**LQ**	**VQ**	**08/08/2008**	**LQ**	**VQ**	**08/08/2008**	**LQ**	**VQ**	**08/08/2008**	**LQ**	**VQ**	**08/08/2008**	**LQ**	**VQ**	**08/08/2008**	**LQ**	**VQ**	**08/08/2008**	**LQ**	**VQ**
Lipid	7.39			0.24			0.158			13.8			0.238			3.27					
Metals in mg/kg WW																					
Arsenic	5			5			2			3			3			1					
Cadmium	1.18			0.08			0.004	U	U	1.39			0.11			0.004	U	U			
Chromium	0.2		J	0.05	U	UJ	0.3		J	0.4		J	0.1		J	0.6		J			
Copper	54.8			12.4			1.02			50.3			16.2			2.04					
Lead	0.04	U	U	0.04	U	U	0.04	U	U	0.08	U	U	0.04	U	U	0.04	U	U			
Mercury	0.044			0.044			0.01			0.04			0.07			0.02					
Selenium																					
Silver	0.74		J	0.11		J	0.022	U	UJ	0.3		J	0.11		J	0.022	U	UJ			
Zinc	36.4			45.3			14.9			35.7			38.3			13.7					
PCBs in ug/kg WW																					
Aroclor-1221	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	330	P	NJ	20	U	U
Aroclor-1232	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.5	U	U	20	U	U
Aroclor-1242	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.5	U	U	20	U	U
Aroclor-1016	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.5	U	U	20	U	U
Aroclor-1248	6.6	Y	U	6.6	U	U	6.6	U	U	6.6	Y	U	6.6	U	U	6.5	U	U	20	U	U
Aroclor-1254	85		J	6.6	U	U	6.6	U	U	130		NJ	6.6	U	U	6.5	U	U	20	U	U
Aroclor-1260	74			6.6	U	U	6.6	U	U	130			6.6	U	U	6.5	U	U	20	U	U
Aroclor-1262	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.5	U	U	20	U	U
Aroclor-1268	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.5	U	U	20	U	U
Total PCBs*	159		J	6.6	U	U	6.6	U	U	260		NJ	6.6	U	U	330	P	NJ	20	U	U
Dioxin/Furan pg TEQ/g WW																					
2,3,7,8-TCDD	0.464			0.0185	KJ	U	0.0184	KJ	U	0.653			0.02	KJ	U	0.0186	KJ	U			
1,2,3,7,8-PECDD	1.41			0.086	J	J	0.148	J	J	1.64			0.0519	KJ	U	0.0485	KJ	U			
1,2,3,4,7,8-HXCDD	0.944			0.074	U	U	0.0735	U	U	0.961			0.0798	U	U	0.0746	U	U			
1,2,3,6,7,8-HXCDD	3.52			0.178	J	J	0.0735	KJ	U	5.07			0.154	J	J	0.161	J	J			
1,2,3,7,8,9-HXCDD	1.32			0.079	J	J	0.0735	U	U	1.73			0.0798	U	U	0.0746	U	U			
1,2,3,4,6,7,8-HPCDD	7.02			0.267	J	J	0.347	J	J	10.5			0.256	J	J	0.533					
OCDD	12.1			0.446	J	J	1.58			10.7			0.292	J	J	2.91					
2,3,7,8-TCDF	5.02			0.0185	K	U	1.2			5.78			0.02	K	U	0.296					
1,2,3,7,8-PECDF	0.467			0.0377	U	U	0.045	J	J	0.668			0.0407	U	U	0.038	U	U			
2,3,4,7,8-PECDF	1.04			0.061	J	J	0.0375	KJ	U	1.49			0.057	J	J	0.091	J	J			
1,2,3,4,7,8-HXCDF	0.584			0.0344	U	U	0.0342	KJ	U	0.637			0.0371	U	U	0.0347	U	U			
1,2,3,6,7,8-HXCDF	0.282	J	J	0.0344	U	U	0.0342	U	U	0.364	J	J	0.0371	U	U	0.0347	U	U			
1,2,3,7,8,9-HXCDF	0.0349	U	U	0.0344	U	U	0.0342	U	U	0.0356	U	U	0.0371	U	U	0.0347	U	U			
2,3,4,6,7,8-HXCDF	0.254	J	J	0.0344	U	U	0.0342	U	U	0.378	J	J	0.0371	U	U	0.0347	U	U			
1,2,3,4,6,7,8-HPCDF	1.18			0.07	J	J	0.0471	KJ	U	1.59			0.0511	KJ	U	0.0477	KJ	U			
1,2,3,4,7,8,9-HPCDF	0.0481	U	U	0.0473	U	U	0.0471	U	U	0.049	KJ	U	0.0511	U	U	0.0477	U	U			
OCDF	0.629	J	J	0.0366	U	U	0.136	J	J	0.546	J	J	0.0395	U	U	0.112	J	J			
TEQ 0 DL	3.48			0.134			0.273			4.38			0.0351			0.0792					
TEQ 1/2 DL	3.48			0.155			0.306			4.38			0.0886			0.128					
Axys Lipids	9.97			0.28			2.21			13.1			0.23			3.65					

* Reanalysis of PCB Aroclors conducted 5/20/09

Table D-6. Crab, English Sole, and Clam Tissue Chemistry

Sample ID	A2-T2-DC-H-A			A2-T2-DC-M-A			A2-T2-ES-A			A1-31B-VC-A			A1-46B-VC-A			A2-18B-MY-A			A2-25B-MY-A		
Collection Date	**08/08/2008**	**LQ**	**VQ**	**08/08/2008**	**LQ**	**VQ**	**08/08/2008**	**LQ**	**VQ**	**08/12/2008**	**LQ**	**VQ**	**08/15/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**	**08/14/2008**	**LQ**	**VQ**
Lipid	4.77			0.198			1.63			0.534			0.497			1.8			0.0593		
Metals in mg/kg WW																					
Arsenic	3			3			3			1			0.1	U	U	2			2		
Cadmium	0.52			0.04			0.004	U	U	0.004	U	U	0.004	U	U	0.07			0.08		
Chromium	0.1		J	0.1		J	0.5		J	0.8			0.5			0.7			0.8		
Copper	61.8			11.9			1.31			2.9			2.21			2.23			2.69		
Lead	0.04	U	U	0.04	U	U	0.04	U	U	0.04	U	U	0.04	U	U	0.04	U	U	0.04	U	U
Mercury	0.02			0.03			0.04			0.01			0.0009	U	U	0.01			0.01		
Selenium																					
Silver	0.43		J	0.09		J	0.022	U	UJ	0.022	U	UJ	0.022	U	UJ	0.021	U	UJ	0.021	U	UJ
Zinc	17.8			31.5			15.3			35.2			22.7			14.2			13.1		
PCBs in ug/kg WW																					
Aroclor-1221	6.5	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Aroclor-1232	6.5	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Aroclor-1242	6.5	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Aroclor-1016	6.5	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	UJ
Aroclor-1248	6.5	Y	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Aroclor-1254	52		NJ	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Aroclor-1260	41			6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Aroclor-1262	6.5	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Aroclor-1268	6.5	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Total PCBs*	93		NJ	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U	6.6	U	U
Dioxin/Furan pg TEQ/g WW																					
2,3,7,8-TCDD	0.537			0.0191	KJ	U	0.0199	KJ	U	0.0198	KJ	U	0.0194	KJ	U	0.02	U	U	0.0183	U	U
1,2,3,7,8-PECDD	1.21			0.058	J	J	0.094	J	J	0.0515	KJ	U	0.0504	U	U	0.052	U	U	0.0475	U	U
1,2,3,4,7,8-HXCDD	1.04			0.0762	U	U	0.0794	U	U	0.0792	U	U	0.0776	U	U	0.0799	U	U	0.0731	U	U
1,2,3,6,7,8-HXCDD	4.06			0.138	J	J	0.0794	KJ	U	0.16	J	J	0.0776	U	U	0.099	J	J	0.0731	U	U
1,2,3,7,8,9-HXCDD	1.96			0.0762	U	U	0.0794	U	U	0.117	J	J	0.0776	U	U	0.072	J	J	0.0731	U	U
1,2,3,4,6,7,8-HPCDD	7.4			0.175	J	J	0.145	J	J	2.1			0.533			1.25			1.09		
OCDD	3.34			0.187	J	J	0.403	J	J	12.2			2.83			7.11			8.14		
2,3,7,8-TCDF	5.01			0.175			0.457			0.245			0.0194	K	U	0.02	KJ	U	0.0183	KJ	U
1,2,3,7,8-PECDF	0.548			0.0389	U	U	0.0405	U	U	0.0404	U	U	0.0396	U	U	0.0384	U	U	0.0373	U	U
2,3,4,7,8-PECDF	1.36			0.06	J	J	0.141	J	J	0.064	J	J	0.062	J	J	0.0408	U	U	0.0373	U	U
1,2,3,4,7,8-HXCDF	0.595			0.038	J	J	0.0369	U	U	0.044	J	J	0.0361	U	U	0.03	U	U	0.034	U	U
1,2,3,6,7,8-HXCDF	0.309	J	J	0.0355	U	U	0.0369	U	U	0.0368	U	U	0.0361	U	U	0.0344	U	U	0.034	U	U
1,2,3,7,8,9-HXCDF	0.0362	U	U	0.0355	U	U	0.0369	U	U	0.0368	U	U	0.0361	U	U	0.0372	U	U	0.034	U	U
2,3,4,6,7,8-HXCDF	0.405	J	J	0.0355	U	U	0.0369	U	U	0.0368	U	U	0.0361	U	U	0.0308	U	U	0.034	U	U
1,2,3,4,6,7,8-HPCDF	1.29			0.0488	U	U	0.0508	U	U	0.363	J	J	0.1	J	J	0.219	J	J	0.216	J	J
1,2,3,4,7,8,9-HPCDF	0.0499	U	U	0.0488	U	U	0.0508	U	U	0.0507	U	U	0.0497	U	U	0.0428	U	U	0.0468	U	U
OCDF	0.19	J	J	0.0377	U	U	0.0393	U	U	0.906			0.133	J	J	0.363	J	J	0.45	J	J
TEQ 0 DL	3.6			0.113			0.184			0.906			0.133			0.363			0.45		
TEQ 1/2 DL	3.6			0.136			0.214			0.104			0.0258			0.034			0.0156		
Axys Lipids	11.5			0.26			2.37			0.98			1.14			0.68			0.33		

Table D-7. Plant Tissue Chemistry

Sample ID	PG-A3-14-CATTAIL			PG-A3-14-TULE			PG-A3-15-CATTAIL			PG-A3-15-TULE		
Collection Date	**10/15/2008**	**LQ**	**VQ**	**10/15/2008**	**LQ**	**VQ**	**10/15/2008**	**LQ**	**VQ**	**10/15/2008**	**LQ**	**VQ**
Metals in mg/kg WW												
Arsenic	0.5	U	UJ	0.51	U	UJ	0.48	U	UJ	0.51	U	UJ
Cadmium	0.019	U	UJ	0.02	U	UJ	0.018	U	UJ	0.02	U	UJ
Chromium	2.2			0.274	U	U	1.9			0.7		
Copper	2.5		J	0.8		J	6.3		J	0.9		J
Lead	0.19	U	U	0.2	U	U	0.18	U	U	0.2	U	U
Mercury	0.0036	U	U	0.004	U	U	0.0042	U	U	0.004	U	U
Selenium	0.97	U	U	0.99	U	U	0.93	U	U	0.99	U	U
Silver	0.105	U	U	0.108	U	U	0.101	U	U	0.108	U	U
Zinc	7		J	4		J	9.6		J	3		J
PCBs in ug/kg WW												
Aroclor 1221	3.8	U	U	3.8	U	U	3.7	U	U	3.7	U	U
Aroclor 1232	3.8	U	U	3.8	U	U	3.7	U	U	3.7	U	U
Aroclor 1242	3.8	U	U	3.8	U	U	3.7	U	U	3.7	U	U
Aroclor 1016	3.8	U	U	3.8	U	U	3.7	U	U	3.7	U	U
Aroclor 1248	3.8	U	U	3.8	U	U	3.7	U	U	3.7	U	U
Aroclor 1254	3.8	U	U	3.8	U	U	3.7	U	U	3.7	U	U
Aroclor 1260	3.8	U	U	3.8	U	U	3.7	U	U	3.7	U	U
Total PCBs	3.8	U	U	3.8	U	U	3.7	U	U	3.7	U	U
Pesticides in ug/kg WW												
4,4'-DDT	0.69	U	U	0.7	U	U	0.68	U	U	0.68	U	U
4,4'-DDE	0.61	U	U	0.62	U	U	0.6	U	U	0.6	U	U
4,4'-DDD	0.74	U	U	0.75	U	U	0.73	U	U	0.73	U	U
gamma-BHC (Lindane)	0.33	U	U	0.33	U	U	0.32	U	U	0.33	U	U
alpha-BHC	0.5	U	U	0.5	U	U	0.49	U	U	0.49	U	U
beta-BHC	0.74	U	U	0.74	U	U	0.72	U	U	0.73	U	U
delta-BHC	0.47	U	U	0.48	U	U	0.46	U	U	0.47	U	U
Heptachlor	0.35	U	U	0.35	U	U	0.34	U	U	0.35	U	U
Heptachlor Epoxide	0.41	U	U	0.41	U	U	0.4	U	U	0.4	U	U
Aldrin	0.33	U	U	0.33	U	U	0.32	U	U	0.32	U	U
Dieldrin	0.55	U	U	0.55	U	U	0.54	U	U	0.54	U	U
Endrin	0.6	U	U	0.6	U	U	0.58	U	U	0.59	U	U
Endrin Ketone	1.1	U	U	1.1	U	U	1.1	U	U	1.1	U	U
Endrin Aldehyde	1.3	U	U	1.4	U	U	1.3	U	U	1.3	U	U
gamma Chlordane	0.29	U	U	0.29	U	U	0.28	U	U	0.28	U	U
alpha Chlordane	0.29	U	U	0.29	U	U	0.28	U	U	0.28	U	U
Methoxychlor	3.7	U	U	3.7	U	U	3.6	U	U	3.7	U	U
Endosulfan I	0.5	U	U	0.51	U	U	0.49	U	U	0.5	U	U
Endosulfan II	0.58	U	U	0.58	U	U	0.57	U	U	0.57	U	U
Endosulfan Sulfate	1.1	U	U	1.1	U	U	1.1	U	U	1.1	U	U
Hexachlorobenzene	0.35	U	U	0.35	U	U	0.34	U	U	0.34	U	U
Hexachlorobutadiene	0.64	U	U	0.65	U	U	0.63	U	U	0.63	U	U
Toxaphene	95	U	U	96	U	U	93	U	U	94	U	U

Table D-8. Rinseate Sample Chemistry

Sample ID	PG-00-ER		PG-00-RB	
Collection Date	08/20/2008	VQ	08/20/2008	VQ
Metals in mg/kg DW				
Arsenic	0.05	U	0.05	U
Cadmium	0.002	U	0.002	U
Chromium	0.005	U	0.005	U
Copper	0.002	U	0.002	U
Lead	0.02	U	0.02	U
Mercury	0.0001	U	0.0001	U
Silver	0.003	U	0.003	U
Zinc	0.01	U	0.01	U
LPAH in ug/kg DW				
Naphthalene	1	U	1	U
Acenaphthylene	1	U	1	U
Acenaphthene	1	U	1	U
Fluorene	1	U	1	U
Phenanthrene	1	U	1	U
Anthracene	1	U	1	U
1-Methylnaphthalene	1	U	1	U
2-Methylnaphthalene	1	U	1	U
Total LPAH*				
HPAH in ug/kg DW				
Fluoranthene	1	U	1	U
Pyrene	1	U	1	U
Benzo(a)anthracene	1	U	1	U
Chrysene	1	U	1	U
Benzo(b)fluoranthene	1	U	1	U
Benzo(k)fluoranthene	1	U	1	U
Benzofluoranthenes*				
Benzo(a)pyrene	1	U	1	U
Indeno(1,2,3-cd)pyrene	1	U	1	U
Dibenz(a,h)anthracene	1	U	1	U
Benzo(g,h,i)perylene	1	U	1	U
Total HPAH*				
Chlorinated Aromatics in ug/kg DW				
1,3-Dichlorobenzene	1	U	1	U
1,4-Dichlorobenzene	1	U	1	U
1,2-Dichlorobenzene	1	U	1	U
1,2,4-Trichlorobenzene	1	U	1	U
Hexachlorobenzene	1	U	1	U
Phthalate Esters in ug/kg DW				
Dimethylphthalate	1	U	1	U
Diethylphthalate	1	U	1	U
Di-n-Butylphthalate	1	U	1	U
Butylbenzylphthalate	1	U	1	U
bis(2-Ethylhexyl)phthalate	1	U	1	U
Di-n-Octylphthalate	1	U	1	U
Phenols in ug/kg DW				
Phenol	1	U	1	U
2-Methylphenol	1	U	1	U
4-Methylphenol	1	U	1	U
2,4-Dimethylphenol	1	U	1	U
Pentachlorophenol	5	U	5	U
Miscellaneous Extractables in ug/kg DW				
Benzyl Alcohol	5	U	5	U
Benzoic Acid	10	U	10	U
Dibenzofuran	1	U	1	U
Hexachloroethane				
Hexachlorobutadiene	1	U	1	U
N-Nitrosodiphenylamine	1	U	1	U
PCBs in ug/kg DW				
Aroclor-1221	1	U	1	U
Aroclor-1232	1	U	1	U
Aroclor-1242	1	U	1	U
Aroclor-1016	1	U	1	U
Aroclor-1248	1	U	1	U
Aroclor-1254	1	U	1	U
Aroclor-1260	1	U	1	U
Aroclor-1262	1	U	1	U
Aroclor-1268	1	U	1	U
Total PCBs*				