Appendix A

Sampling Data for Sediments in the Vicinity of the RM 1.2-1.7 East Source Control Area

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Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
DR092	1.6	EPA SI	8/27/1998	1,2,3,4,6,7,8-HpCDD	260	ng/kg dw		0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,4,6,7,8-HpCDD	288	ng/kg dw		1.69						
DR092	1.6	EPA SI	8/27/1998	1,2,3,4,6,7,8-HpCDF	42	ng/kg dw		0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,4,6,7,8-HpCDF	42.8	ng/kg dw		1.69						
DR092	1.6	EPA SI	8/27/1998	1,2,3,4,7,8,9-HpCDF	6.1	ng/kg dw	J	0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,4,7,8,9-HpCDF	3.12	ng/kg dw	J	1.69						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,4,7,8-HxCDD	2.24	ng/kg dw	J	1.69						
DR092	1.6	EPA SI	8/27/1998	1,2,3,4,7,8-HxCDF	15	ng/kg dw		0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,4,7,8-HxCDF	5.12	ng/kg dw	J	1.69						
DR092	1.6	EPA SI	8/27/1998	1,2,3,6,7,8-HxCDD	8.2	ng/kg dw		0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,6,7,8-HxCDD	11.7	ng/kg dw	J	1.69						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,6,7,8-HxCDF	1.98	ng/kg dw	J	1.69						
DR092	1.6	EPA SI	8/27/1998	1,2,3,7,8,9-HxCDD	4.8	ng/kg dw	J	0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,7,8,9-HxCDD	7.69	ng/kg dw	J	1.69						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,7,8,9-HxCDF	0.149	ng/kg dw	J	1.69						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,7,8-PeCDD	1.75	ng/kg dw	J	1.69						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	1,2,3,7,8-PeCDF	0.811	ng/kg dw	J	1.69						
B5b	1.5	LDWRI-Benthic	9/28/2004	1-Methylnaphthalene	7	ug/kg dw		1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	1-Methylnaphthalene	11	ug/kg dw		2.79						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	2,3,4,6,7,8-HxCDF	1.62	ng/kg dw	J	1.69						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	2,3,4,7,8-PeCDF	1.89	ng/kg dw	J	1.69						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	2,3,7,8-TCDD	0.463	ng/kg dw	J	1.69						
DR092	1.6	EPA SI	8/27/1998	2,3,7,8-TCDF	1.3	ng/kg dw	J	0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	2,3,7,8-TCDF	1.13	ng/kg dw		1.69						
B5b	1.5	LDWRI-Benthic	9/28/2004	2,4'-DDD	7	ug/kg dw	JN	1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	2,4'-DDT	5.1	ug/kg dw	JN	1.39						
DR091	1.5	EPA SI	8/31/1998	2-Methylnaphthalene	0.02	mg/kg dw		0.86	2.3	38	64	mg/kg OC	0.061	0.036
DR144	1.5	EPA SI	8/17/1998	2-Methylnaphthalene	0.03	mg/kg dw		1.84	1.6	38	64	mg/kg OC	0.042	0.025
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	2-Methylnaphthalene	0.005	mg/kg dw	J	1.48	0.34	38	64	mg/kg OC	0.0089	0.0053
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	2-Methylnaphthalene	1	ug/kg dw	J	0.34		670	1400	ug/kg dw	0.0015	0.00071
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	2-Methylnaphthalene	0.005	mg/kg dw	J	0.98	0.51	38	64	mg/kg OC	0.013	0.008
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	2-Methylnaphthalene	0.01	mg/kg dw	J	2.04	0.49	38	64	mg/kg OC	0.013	0.0077
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	2-Methylnaphthalene	0.003	mg/kg dw	J	1.18	0.25	38	64	mg/kg OC	0.0066	0.0039
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	2-Methylnaphthalene	0.009	mg/kg dw	J	2.9	0.31	38	64	mg/kg OC	0.0082	0.0048
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	2-Methylnaphthalene	7	ug/kg dw	J	0.47		670	1400	ug/kg dw	0.01	0.005
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	2-Methylnaphthalene	0.006	mg/kg dw	J	1.01	0.59	38	64	mg/kg OC	0.016	0.0092
B5b	1.5	LDWRI-Benthic	9/28/2004	2-Methylnaphthalene	0.0093	mg/kg dw		1.39	0.67	38	64	mg/kg OC	0.018	0.01
DR025	1.2	EPA SI	8/17/1998	2-Methylnaphthalene	0.02	mg/kg dw		2.83	0.71	38	64	mg/kg OC	0.019	0.011
B4b	1.4	LDWRI-Benthic	8/28/2004	2-Methylnaphthalene	0.014	mg/kg dw		2.79	0.5	38	64	mg/kg OC	0.013	0.0078
B5b	1.5	LDWRI-Benthic	9/28/2004	4,4'-DDD	0.86	ug/kg dw	JN	1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	4,4'-DDD	1.1	ug/kg dw	JN	2.79						
B5b	1.5	LDWRI-Benthic	9/28/2004	4,4'-DDE	1.4	ug/kg dw	JN	1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	4,4'-DDE	1.8	ug/kg dw	JN	2.79						
B5b	1.5	LDWRI-Benthic	9/28/2004	4,4'-DDT	6.5	ug/kg dw	JN	1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	4,4'-DDT	3.4	ug/kg dw	JN	2.79						
DR025	1.2	EPA SI	8/17/1998	4-Methylphenol	100	ug/kg dw		2.83		670	670	ug/kg dw	0.15	0.15
B4b	1.4	LDWRI-Benthic	8/28/2004	4-Methylphenol	21	ug/kg dw		2.79		670	670	ug/kg dw	0.031	0.031
DR091	1.5	EPA SI	8/31/1998	Acenaphthene	0.12	mg/kg dw		0.86	14	16	57	mg/kg OC	0.88	0.25
DR092	1.6	EPA SI	8/27/1998	Acenaphthene	0.05	mg/kg dw		0.7	7.1	16	57	mg/kg OC	0.44	0.12
DR144	1.5	EPA SI	8/17/1998	Acenaphthene	0.11	mg/kg dw		1.84	6	16	57	mg/kg OC	0.38	0.11
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Acenaphthene	0.028	mg/kg dw		1.48	1.9	16	57	mg/kg OC	0.12	0.033
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Acenaphthene	10	ug/kg dw	J	0.34		500	730	ug/kg dw	0.02	0.014
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Acenaphthene	0.083	mg/kg dw		0.98	8.5	16	57	mg/kg OC	0.53	0.15
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Acenaphthene	0.003	mg/kg dw	J	2.04	0.15	16	57	mg/kg OC	0.0094	0.0026
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Acenaphthene	0.035	mg/kg dw		1.18	3	16	57	mg/kg OC	0.19	0.053
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Acenaphthene	0.003	mg/kg dw	J	0.71	0.42	16	57	mg/kg OC	0.026	0.0074

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Acenaphthene	0.004	mg/kg dw	J	2.9	0.14	16	57	mg/kg OC	0.0088	0.0025
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Acenaphthene	36	ug/kg dw		0.47		500	730	ug/kg dw	0.072	0.049
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Acenaphthene	0.01	mg/kg dw	J	1.01	0.99	16	57	mg/kg OC	0.062	0.017
B5b	1.5	LDWRI-Benthic	9/28/2004	Acenaphthene	0.011	mg/kg dw		1.39	0.79	16	57	mg/kg OC	0.049	0.014
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Acenaphthene	0.025	mg/kg dw		1.75	1.4	16	57	mg/kg OC	0.088	0.025
DR025	1.2	EPA SI	8/17/1998	Acenaphthene	0.04	mg/kg dw		2.83	1.4	16	57	mg/kg OC	0.088	0.025
DR026	1.3	EPA SI	8/17/1998	Acenaphthene	0.03	mg/kg dw		3.24	0.93	16	57	mg/kg OC	0.058	0.016
DR027	1.3	EPA SI	8/17/1998	Acenaphthene	0.04	mg/kg dw		2.49	1.6	16	57	mg/kg OC	0.1	0.028
DR064	1.3	EPA SI	8/17/1998	Acenaphthene	0.03	mg/kg dw		2.58	1.2	16	57	mg/kg OC	0.075	0.021
B4b	1.4	LDWRI-Benthic	8/28/2004	Acenaphthene	0.013	mg/kg dw		2.79	0.47	16	57	mg/kg OC	0.029	0.0082
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Acenaphthylene	0.068	mg/kg dw		1.48	4.6	66	66	mg/kg OC	0.07	0.07
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Acenaphthylene	0.02	mg/kg dw	J	0.98	2	66	66	mg/kg OC	0.03	0.03
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Acenaphthylene	0.069	mg/kg dw		2.04	3.4	66	66	mg/kg OC	0.052	0.052
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Acenaphthylene	0.02	mg/kg dw	J	1.18	1.7	66	66	mg/kg OC	0.026	0.026
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Acenaphthylene	0.002	mg/kg dw	J	0.71	0.28	66	66	mg/kg OC	0.0042	0.0042
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Acenaphthylene	0.01	mg/kg dw	J	2.9	0.34	66	66	mg/kg OC	0.0052	0.0052
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Acenaphthylene	10	ug/kg dw	J	0.47		1300	1300	ug/kg dw	0.0077	0.0077
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Acenaphthylene	0.077	mg/kg dw		1.01	7.6	66	66	mg/kg OC	0.12	0.12
B5b	1.5	LDWRI-Benthic	9/28/2004	Acenaphthylene	0.031	mg/kg dw		1.39	2.2	66	66	mg/kg OC	0.033	0.033
B4b	1.4	LDWRI-Benthic	8/28/2004	Acenaphthylene	0.028	mg/kg dw		2.79	1	66	66	mg/kg OC	0.015	0.015
DR091	1.5	EPA SI	8/31/1998	Aluminum	10100	mg/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Aluminum	9410	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Aluminum	18100	mg/kg dw		1.84						
DR025	1.2	EPA SI	8/17/1998	Aluminum	20200	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Aluminum	21700	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Aluminum	18600	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Aluminum	20100	mg/kg dw		2.58						
DR091	1.5	EPA SI	8/31/1998	Anthracene	0.13	mg/kg dw		0.86	15	220	1200	mg/kg OC	0.068	0.013
DR092	1.6	EPA SI	8/27/1998	Anthracene	0.05	mg/kg dw		0.7	7.1	220	1200	mg/kg OC	0.032	0.0059
DR144	1.5	EPA SI	8/17/1998	Anthracene	0.09	mg/kg dw		1.84	4.9	220	1200	mg/kg OC	0.022	0.0041
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Anthracene	0.28	mg/kg dw		1.48	19	220	1200	mg/kg OC	0.086	0.016
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Anthracene	9	ug/kg dw	J	0.34		960	4400	ug/kg dw	0.0094	0.002
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Anthracene	0.14	mg/kg dw		0.98	14	220	1200	mg/kg OC	0.064	0.012
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Anthracene	0.2	mg/kg dw		2.04	9.8	220	1200	mg/kg OC	0.045	0.0082
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Anthracene	0.047	mg/kg dw		1.18	4	220	1200	mg/kg OC	0.018	0.0033
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Anthracene	0.006	mg/kg dw	J	0.71	0.85	220	1200	mg/kg OC	0.0039	0.00071
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Anthracene	0.027	mg/kg dw		2.9	0.93	220	1200	mg/kg OC	0.0042	0.00078
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Anthracene	59	ug/kg dw		0.47		960	4400	ug/kg dw	0.061	0.013
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Anthracene	0.27	mg/kg dw		1.01	27	220	1200	mg/kg OC	0.12	0.023
B5b	1.5	LDWRI-Benthic	9/28/2004	Anthracene	0.1	mg/kg dw		1.39	7.2	220	1200	mg/kg OC	0.033	0.006
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Anthracene	0.036	mg/kg dw		2.4	1.5	220	1200	mg/kg OC	0.0068	0.0013
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Anthracene	0.12	mg/kg dw		2.02	5.9	220	1200	mg/kg OC	0.027	0.0049
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Anthracene	0.12	mg/kg dw		1.69	7.1	220	1200	mg/kg OC	0.032	0.0059
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Anthracene	0.045	mg/kg dw		2.44	1.8	220	1200	mg/kg OC	0.0082	0.0015
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Anthracene	0.09	mg/kg dw		1.75	5.1	220	1200	mg/kg OC	0.023	0.0043
DR025	1.2	EPA SI	8/17/1998	Anthracene	0.2	mg/kg dw		2.83	7.1	220	1200	mg/kg OC	0.032	0.0059
DR026	1.3	EPA SI	8/17/1998	Anthracene	0.11	mg/kg dw		3.24	3.4	220	1200	mg/kg OC	0.015	0.0028
DR027	1.3	EPA SI	8/17/1998	Anthracene	0.14	mg/kg dw		2.49	5.6	220	1200	mg/kg OC	0.025	0.0047
DR064	1.3	EPA SI	8/17/1998	Anthracene	0.12	mg/kg dw		2.58	4.7	220	1200	mg/kg OC	0.021	0.0039
B4b	1.4	LDWRI-Benthic	8/28/2004	Anthracene	0.082	mg/kg dw		2.79	2.9	220	1200	mg/kg OC	0.013	0.0024
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Anthracene	0.099	mg/kg dw		2.04	4.9	220	1200	mg/kg OC	0.022	0.0041
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Anthracene	0.1	mg/kg dw		2.11	4.7	220	1200	mg/kg OC	0.021	0.0039
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Anthracene	0.089	mg/kg dw		2.33	3.8	220	1200	mg/kg OC	0.017	0.0032
DR144	1.5	EPA SI	8/17/1998	Antimony	7	mg/kg dw	J	1.84						
B5b	1.5	LDWRI-Benthic	9/28/2004	Antimony	0.59	mg/kg dw	J	1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	Antimony	1.04	mg/kg dw	J	2.79						

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Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
DR091	1.5	EPA SI	8/31/1998	Arsenic	7.3	mg/kg dw		0.86		57	93	mg/kg dw	0.13	0.078
DR092	1.6	EPA SI	8/27/1998	Arsenic	6	mg/kg dw		0.7		57	93	mg/kg dw	0.11	0.065
DR144	1.5	EPA SI	8/17/1998	Arsenic	25.6	mg/kg dw		1.84		57	93	mg/kg dw	0.45	0.28
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Arsenic	2.8	mg/kg dw		1.48		57	93	mg/kg dw	0.049	0.03
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Arsenic	1.4	mg/kg dw		0.34		57	93	mg/kg dw	0.025	0.015
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Arsenic	1.2	mg/kg dw		0.98		57	93	mg/kg dw	0.021	0.013
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Arsenic	5.6	mg/kg dw		2.04		57	93	mg/kg dw	0.098	0.06
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Arsenic	4.2	mg/kg dw		1.18		57	93	mg/kg dw	0.074	0.045
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Arsenic	2	mg/kg dw		0.71		57	93	mg/kg dw	0.035	0.022
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Arsenic	6	mg/kg dw		2.9		57	93	mg/kg dw	0.11	0.065
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Arsenic	7.5	mg/kg dw	J	0.47		57	93	mg/kg dw	0.13	0.081
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Arsenic	27.3	mg/kg dw		1.01		57	93	mg/kg dw	0.48	0.29
B5b	1.5	LDWRI-Benthic	9/28/2004	Arsenic	6.74	mg/kg dw	J	1.39		57	93	mg/kg dw	0.12	0.072
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Arsenic	15.5	mg/kg dw		2.4		57	93	mg/kg dw	0.27	0.17
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Arsenic	8.8	mg/kg dw		2.02		57	93	mg/kg dw	0.15	0.095
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Arsenic	4.1	mg/kg dw		1.08		57	93	mg/kg dw	0.072	0.044
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Arsenic	21.2	mg/kg dw		1.69		57	93	mg/kg dw	0.37	0.23
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Arsenic	6.1	mg/kg dw		1.68		57	93	mg/kg dw	0.11	0.066
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Arsenic	11.3	mg/kg dw		2.44		57	93	mg/kg dw	0.2	0.12
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Arsenic	5.6	mg/kg dw		1.75		57	93	mg/kg dw	0.098	0.06
DR025	1.2	EPA SI	8/17/1998	Arsenic	12.9	mg/kg dw		2.83		57	93	mg/kg dw	0.23	0.14
DR026	1.3	EPA SI	8/17/1998	Arsenic	13	mg/kg dw		3.24		57	93	mg/kg dw	0.23	0.14
DR027	1.3	EPA SI	8/17/1998	Arsenic	13.4	mg/kg dw		2.49		57	93	mg/kg dw	0.24	0.14
DR064	1.3	EPA SI	8/17/1998	Arsenic	13.5	mg/kg dw		2.58		57	93	mg/kg dw	0.24	0.15
B4b	1.4	LDWRI-Benthic	8/28/2004	Arsenic	10.3	mg/kg dw	J	2.79		57	93	mg/kg dw	0.18	0.11
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Arsenic	17.1	mg/kg dw		2.04		57	93	mg/kg dw	0.3	0.18
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Arsenic	13	mg/kg dw		2.11		57	93	mg/kg dw	0.23	0.14
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Arsenic	14.7	mg/kg dw		2.33		57	93	mg/kg dw	0.26	0.16
DR091	1.5	EPA SI	8/31/1998	Barium	45	mg/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Barium	41	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Barium	124	mg/kg dw		1.84						
DR025	1.2	EPA SI	8/17/1998	Barium	82	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Barium	89	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Barium	7380	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Barium	83	mg/kg dw		2.58						
DR091	1.5	EPA SI	8/31/1998	Benzo(a)anthracene	0.3	mg/kg dw		0.86	35	110	270	mg/kg OC	0.32	0.13
DR092	1.6	EPA SI	8/27/1998	Benzo(a)anthracene	0.13	mg/kg dw		0.7	19	110	270	mg/kg OC	0.17	0.07
DR144	1.5	EPA SI	8/17/1998	Benzo(a)anthracene	0.31	mg/kg dw		1.84	17	110	270	mg/kg OC	0.15	0.063
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	0.77	mg/kg dw		1.48	52	110	270	mg/kg OC	0.47	0.19
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	20	ug/kg dw	J	0.34		1300	1600	ug/kg dw	0.015	0.013
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	0.11	mg/kg dw		0.98	11	110	270	mg/kg OC	0.1	0.041
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	0.1	mg/kg dw	J	2.04	4.9	110	270	mg/kg OC	0.045	0.018
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	0.084	mg/kg dw		1.18	7.1	110	270	mg/kg OC	0.065	0.026
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	0.02	mg/kg dw	J	0.71	2.8	110	270	mg/kg OC	0.025	0.01
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	0.049	mg/kg dw		2.9	1.7	110	270	mg/kg OC	0.015	0.0063
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	87	ug/kg dw		0.47		1300	1600	ug/kg dw	0.067	0.054
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(a)anthracene	0.52	mg/kg dw		1.01	51	110	270	mg/kg OC	0.46	0.19
B5b	1.5	LDWRI-Benthic	9/28/2004	Benzo(a)anthracene	0.32	mg/kg dw		1.39	23	110	270	mg/kg OC	0.21	0.085
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Benzo(a)anthracene	0.12	mg/kg dw		2.4	5	110	270	mg/kg OC	0.045	0.019
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(a)anthracene	0.25	mg/kg dw		2.02	12	110	270	mg/kg OC	0.11	0.044
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Benzo(a)anthracene	0.046	mg/kg dw		1.08	4.3	110	270	mg/kg OC	0.039	0.016
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(a)anthracene	0.32	mg/kg dw		1.69	19	110	270	mg/kg OC	0.17	0.07
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Benzo(a)anthracene	0.04	mg/kg dw		1.68	2.4	110	270	mg/kg OC	0.022	0.0089
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Benzo(a)anthracene	0.12	mg/kg dw		2.44	4.9	110	270	mg/kg OC	0.045	0.018
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Benzo(a)anthracene	0.26	mg/kg dw		1.75	15	110	270	mg/kg OC	0.14	0.056
DR025	1.2	EPA SI	8/17/1998	Benzo(a)anthracene	0.47	mg/kg dw		2.83	17	110	270	mg/kg OC	0.15	0.063

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
DR026	1.3	EPA SI	8/17/1998	Benzo(a)anthracene	0.37	mg/kg dw		3.24	11	110	270	mg/kg OC	0.1	0.041
DR027	1.3	EPA SI	8/17/1998	Benzo(a)anthracene	0.35	mg/kg dw		2.49	14	110	270	mg/kg OC	0.13	0.052
DR064	1.3	EPA SI	8/17/1998	Benzo(a)anthracene	0.32	mg/kg dw		2.58	12	110	270	mg/kg OC	0.11	0.044
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzo(a)anthracene	0.21	mg/kg dw		2.79	7.5	110	270	mg/kg OC	0.068	0.028
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(a)anthracene	0.22	mg/kg dw		2.04	11	110	270	mg/kg OC	0.1	0.041
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(a)anthracene	0.32	mg/kg dw		2.11	15	110	270	mg/kg OC	0.14	0.056
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(a)anthracene	0.24	mg/kg dw		2.33	10	110	270	mg/kg OC	0.091	0.037
DR091	1.5	EPA SI	8/31/1998	Benzo(a)pyrene	0.19	mg/kg dw		0.86	22	99	210	mg/kg OC	0.22	0.1
DR092	1.6	EPA SI	8/27/1998	Benzo(a)pyrene	0.11	mg/kg dw		0.7	16	99	210	mg/kg OC	0.16	0.076
DR144	1.5	EPA SI	8/17/1998	Benzo(a)pyrene	0.3	mg/kg dw		1.84	16	99	210	mg/kg OC	0.16	0.076
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	0.17	mg/kg dw		1.48	11	99	210	mg/kg OC	0.11	0.052
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	10	ug/kg dw	J	0.34		1600	3000	ug/kg dw	0.0063	0.0033
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	0.1	mg/kg dw		0.98	10	99	210	mg/kg OC	0.1	0.048
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	0.1	mg/kg dw	J	2.04	4.9	99	210	mg/kg OC	0.049	0.023
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	0.078	mg/kg dw		1.18	6.6	99	210	mg/kg OC	0.067	0.031
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	0.01	mg/kg dw	J	0.71	1.4	99	210	mg/kg OC	0.014	0.0067
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	0.05	mg/kg dw		2.9	1.7	99	210	mg/kg OC	0.017	0.0081
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	67	ug/kg dw		0.47		1600	3000	ug/kg dw	0.042	0.022
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(a)pyrene	0.31	mg/kg dw		1.01	31	99	210	mg/kg OC	0.31	0.15
B5b	1.5	LDWRI-Benthic	9/28/2004	Benzo(a)pyrene	0.22	mg/kg dw		1.39	16	99	210	mg/kg OC	0.16	0.076
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Benzo(a)pyrene	0.11	mg/kg dw		2.4	4.6	99	210	mg/kg OC	0.046	0.022
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(a)pyrene	0.27	mg/kg dw		2.02	13	99	210	mg/kg OC	0.13	0.062
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Benzo(a)pyrene	0.026	mg/kg dw		1.08	2.4	99	210	mg/kg OC	0.024	0.011
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(a)pyrene	0.28	mg/kg dw		1.69	17	99	210	mg/kg OC	0.17	0.081
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Benzo(a)pyrene	0.06	mg/kg dw		1.68	3.6	99	210	mg/kg OC	0.036	0.017
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Benzo(a)pyrene	0.11	mg/kg dw		2.44	4.5	99	210	mg/kg OC	0.045	0.021
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Benzo(a)pyrene	0.22	mg/kg dw		1.75	13	99	210	mg/kg OC	0.13	0.062
DR025	1.2	EPA SI	8/17/1998	Benzo(a)pyrene	0.36	mg/kg dw		2.83	13	99	210	mg/kg OC	0.13	0.062
DR026	1.3	EPA SI	8/17/1998	Benzo(a)pyrene	0.32	mg/kg dw		3.24	9.9	99	210	mg/kg OC	0.1	0.047
DR027	1.3	EPA SI	8/17/1998	Benzo(a)pyrene	0.32	mg/kg dw		2.49	13	99	210	mg/kg OC	0.13	0.062
DR064	1.3	EPA SI	8/17/1998	Benzo(a)pyrene	0.3	mg/kg dw		2.58	12	99	210	mg/kg OC	0.12	0.057
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzo(a)pyrene	0.2	mg/kg dw		2.79	7.2	99	210	mg/kg OC	0.073	0.034
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(a)pyrene	0.23	mg/kg dw		2.04	11	99	210	mg/kg OC	0.11	0.052
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(a)pyrene	0.33	mg/kg dw		2.11	16	99	210	mg/kg OC	0.16	0.076
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(a)pyrene	0.27	mg/kg dw		2.33	12	99	210	mg/kg OC	0.12	0.057
DR091	1.5	EPA SI	8/31/1998	Benzo(b)fluoranthene	260	ug/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Benzo(b)fluoranthene	130	ug/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Benzo(b)fluoranthene	320	ug/kg dw		1.84						
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	580	ug/kg dw		1.48						
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	20	ug/kg dw	J	0.34						
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	120	ug/kg dw		0.98						
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	100	ug/kg dw	J	2.04						
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	100	ug/kg dw		1.18						
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	20	ug/kg dw	J	0.71						
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	42	ug/kg dw		2.9						
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	94	ug/kg dw		0.47						
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(b)fluoranthene	520	ug/kg dw		1.01						
B5b	1.5	LDWRI-Benthic	9/28/2004	Benzo(b)fluoranthene	340	ug/kg dw		1.39						
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Benzo(b)fluoranthene	140	ug/kg dw		2.4						
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(b)fluoranthene	400	ug/kg dw		2.02						
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Benzo(b)fluoranthene	38	ug/kg dw		1.08						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(b)fluoranthene	380	ug/kg dw		1.69						
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Benzo(b)fluoranthene	74	ug/kg dw		1.68						
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Benzo(b)fluoranthene	160	ug/kg dw		2.44						
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Benzo(b)fluoranthene	460	ug/kg dw		1.75						
DR025	1.2	EPA SI	8/17/1998	Benzo(b)fluoranthene	480	ug/kg dw		2.83						

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
DR026	1.3	EPA SI	8/17/1998	Benzo(b)fluoranthene	370	ug/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Benzo(b)fluoranthene	360	ug/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Benzo(b)fluoranthene	390	ug/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzo(b)fluoranthene	310	ug/kg dw		2.79						
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(b)fluoranthene	330	ug/kg dw		2.04						
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(b)fluoranthene	580	ug/kg dw		2.11						
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(b)fluoranthene	440	ug/kg dw		2.33						
B5b	1.5	LDWRI-Benthic	9/28/2004	Benzo(e)pyrene	230	ug/kg dw		1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzo(e)pyrene	220	ug/kg dw		2.79						
DR091	1.5	EPA SI	8/31/1998	Benzo(g,h,i)perylene	0.11	mg/kg dw		0.86	13	31	78	mg/kg OC	0.42	0.17
DR092	1.6	EPA SI	8/27/1998	Benzo(g,h,i)perylene	0.06	mg/kg dw		0.7	8.6	31	78	mg/kg OC	0.28	0.11
DR144	1.5	EPA SI	8/17/1998	Benzo(g,h,i)perylene	0.17	mg/kg dw		1.84	9.2	31	78	mg/kg OC	0.3	0.12
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	0.091	mg/kg dw		1.48	6.1	31	78	mg/kg OC	0.2	0.078
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	8	ug/kg dw	J	0.34		670	720	ug/kg dw	0.012	0.011
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	0.062	mg/kg dw		0.98	6.3	31	78	mg/kg OC	0.2	0.081
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	0.2	mg/kg dw	J	2.04	9.8	31	78	mg/kg OC	0.32	0.13
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	0.051	mg/kg dw		1.18	4.3	31	78	mg/kg OC	0.14	0.055
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	0.01	mg/kg dw	J	0.71	1.4	31	78	mg/kg OC	0.045	0.018
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	0.038	mg/kg dw		2.9	1.3	31	78	mg/kg OC	0.042	0.017
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	40	ug/kg dw		0.47		670	720	ug/kg dw	0.06	0.056
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(g,h,i)perylene	0.14	mg/kg dw		1.01	14	31	78	mg/kg OC	0.45	0.18
B5b	1.5	LDWRI-Benthic	9/28/2004	Benzo(g,h,i)perylene	0.12	mg/kg dw		1.39	8.6	31	78	mg/kg OC	0.28	0.11
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Benzo(g,h,i)perylene	0.028	mg/kg dw		2.4	1.2	31	78	mg/kg OC	0.039	0.015
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(g,h,i)perylene	0.055	mg/kg dw	J	2.02	2.7	31	78	mg/kg OC	0.087	0.035
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(g,h,i)perylene	0.14	mg/kg dw		1.69	8.3	31	78	mg/kg OC	0.27	0.11
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Benzo(g,h,i)perylene	0.037	mg/kg dw		1.68	2.2	31	78	mg/kg OC	0.071	0.028
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Benzo(g,h,i)perylene	0.05	mg/kg dw		2.44	2	31	78	mg/kg OC	0.065	0.026
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Benzo(g,h,i)perylene	0.054	mg/kg dw		1.75	3.1	31	78	mg/kg OC	0.1	0.04
DR025	1.2	EPA SI	8/17/1998	Benzo(g,h,i)perylene	0.22	mg/kg dw		2.83	7.8	31	78	mg/kg OC	0.25	0.1
DR026	1.3	EPA SI	8/17/1998	Benzo(g,h,i)perylene	0.19	mg/kg dw		3.24	5.9	31	78	mg/kg OC	0.19	0.076
DR027	1.3	EPA SI	8/17/1998	Benzo(g,h,i)perylene	0.19	mg/kg dw		2.49	7.6	31	78	mg/kg OC	0.25	0.097
DR064	1.3	EPA SI	8/17/1998	Benzo(g,h,i)perylene	0.2	mg/kg dw		2.58	7.8	31	78	mg/kg OC	0.25	0.1
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzo(g,h,i)perylene	0.14	mg/kg dw		2.79	5	31	78	mg/kg OC	0.16	0.064
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(g,h,i)perylene	0.058	mg/kg dw	J	2.04	2.8	31	78	mg/kg OC	0.09	0.036
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(g,h,i)perylene	0.13	mg/kg dw		2.11	6.2	31	78	mg/kg OC	0.2	0.079
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(g,h,i)perylene	0.097	mg/kg dw		2.33	4.2	31	78	mg/kg OC	0.14	0.054
DR091	1.5	EPA SI	8/31/1998	Benzo(k)fluoranthene	210	ug/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Benzo(k)fluoranthene	130	ug/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Benzo(k)fluoranthene	290	ug/kg dw		1.84						
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	450	ug/kg dw		1.48						
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	10	ug/kg dw	J	0.34						
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	84	ug/kg dw		0.98						
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	90	ug/kg dw	J	2.04						
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	74	ug/kg dw		1.18						
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	20	ug/kg dw	J	0.71						
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	37	ug/kg dw		2.9						
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	72	ug/kg dw		0.47						
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Benzo(k)fluoranthene	420	ug/kg dw		1.01						
B5b	1.5	LDWRI-Benthic	9/28/2004	Benzo(k)fluoranthene	230	ug/kg dw		1.39						
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Benzo(k)fluoranthene	100	ug/kg dw		2.4						
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(k)fluoranthene	410	ug/kg dw		2.02						
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Benzo(k)fluoranthene	24	ug/kg dw		1.08						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(k)fluoranthene	380	ug/kg dw		1.69						
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Benzo(k)fluoranthene	66	ug/kg dw		1.68						
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Benzo(k)fluoranthene	110	ug/kg dw		2.44						
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Benzo(k)fluoranthene	230	ug/kg dw		1.75						

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
DR025	1.2	EPA SI	8/17/1998	Benzo(k)fluoranthene	340	ug/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Benzo(k)fluoranthene	300	ug/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Benzo(k)fluoranthene	320	ug/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Benzo(k)fluoranthene	260	ug/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzo(k)fluoranthene	200	ug/kg dw		2.79						
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzo(k)fluoranthene	380	ug/kg dw		2.04						
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(k)fluoranthene	370	ug/kg dw		2.11						
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzo(k)fluoranthene	260	ug/kg dw		2.33						
DR091	1.5	EPA SI	8/31/1998	Benzofluoranthenes (total-calc'd)	0.47	mg/kg dw		0.86	55	230	450	mg/kg OC	0.24	0.12
DR092	1.6	EPA SI	8/27/1998	Benzofluoranthenes (total-calc'd)	0.26	mg/kg dw		0.7	37	230	450	mg/kg OC	0.16	0.082
DR144	1.5	EPA SI	8/17/1998	Benzofluoranthenes (total-calc'd)	0.61	mg/kg dw		1.84	33	230	450	mg/kg OC	0.14	0.073
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	1.03	mg/kg dw		1.48	69.6	230	450	mg/kg OC	0.3	0.15
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	30	ug/kg dw	J	0.34		3200	3600	ug/kg dw	0.0094	0.0083
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	0.2	mg/kg dw		0.98	20	230	450	mg/kg OC	0.087	0.044
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	0.19	mg/kg dw	J	2.04	9.3	230	450	mg/kg OC	0.04	0.021
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	0.17	mg/kg dw		1.18	14	230	450	mg/kg OC	0.061	0.031
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	0.04	mg/kg dw	J	0.71	5.6	230	450	mg/kg OC	0.024	0.012
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	0.079	mg/kg dw		2.9	2.7	230	450	mg/kg OC	0.012	0.006
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	166	ug/kg dw		0.47		3200	3600	ug/kg dw	0.052	0.046
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Benzofluoranthenes (total-calc'd)	0.94	mg/kg dw		1.01	93	230	450	mg/kg OC	0.4	0.21
B5b	1.5	LDWRI-Benthic	9/28/2004	Benzofluoranthenes (total-calc'd)	0.57	mg/kg dw		1.39	41	230	450	mg/kg OC	0.18	0.091
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Benzofluoranthenes (total-calc'd)	0.24	mg/kg dw		2.4	10	230	450	mg/kg OC	0.043	0.022
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzofluoranthenes (total-calc'd)	0.81	mg/kg dw		2.02	40	230	450	mg/kg OC	0.17	0.089
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Benzofluoranthenes (total-calc'd)	0.062	mg/kg dw		1.08	5.7	230	450	mg/kg OC	0.025	0.013
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzofluoranthenes (total-calc'd)	0.76	mg/kg dw		1.69	45	230	450	mg/kg OC	0.2	0.1
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Benzofluoranthenes (total-calc'd)	0.14	mg/kg dw		1.68	8.33	230	450	mg/kg OC	0.036	0.019
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Benzofluoranthenes (total-calc'd)	0.27	mg/kg dw		2.44	11	230	450	mg/kg OC	0.048	0.024
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Benzofluoranthenes (total-calc'd)	0.69	mg/kg dw		1.75	39	230	450	mg/kg OC	0.17	0.087
DR025	1.2	EPA SI	8/17/1998	Benzofluoranthenes (total-calc'd)	0.82	mg/kg dw		2.83	29	230	450	mg/kg OC	0.13	0.064
DR026	1.3	EPA SI	8/17/1998	Benzofluoranthenes (total-calc'd)	0.67	mg/kg dw		3.24	21	230	450	mg/kg OC	0.091	0.047
DR027	1.3	EPA SI	8/17/1998	Benzofluoranthenes (total-calc'd)	0.68	mg/kg dw		2.49	27	230	450	mg/kg OC	0.12	0.06
DR064	1.3	EPA SI	8/17/1998	Benzofluoranthenes (total-calc'd)	0.65	mg/kg dw		2.58	25	230	450	mg/kg OC	0.11	0.056
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzofluoranthenes (total-calc'd)	0.51	mg/kg dw		2.79	18	230	450	mg/kg OC	0.078	0.04
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Benzofluoranthenes (total-calc'd)	0.71	mg/kg dw		2.04	35	230	450	mg/kg OC	0.15	0.078
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzofluoranthenes (total-calc'd)	0.95	mg/kg dw		2.11	45	230	450	mg/kg OC	0.2	0.1
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Benzofluoranthenes (total-calc'd)	0.7	mg/kg dw		2.33	30	230	450	mg/kg OC	0.13	0.067
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzoic acid	250	ug/kg dw		2.79		650	650	ug/kg dw	0.38	0.38
B4b	1.4	LDWRI-Benthic	8/28/2004	Benzyl alcohol	70	ug/kg dw	J	2.79		57	73	ug/kg dw	1.2	0.96
DR091	1.5	EPA SI	8/31/1998	Beryllium	0.19	mg/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Beryllium	0.2	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Beryllium	0.47	mg/kg dw		1.84						
DR025	1.2	EPA SI	8/17/1998	Beryllium	0.46	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Beryllium	0.48	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Beryllium	0.45	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Beryllium	0.52	mg/kg dw		2.58						
B5b	1.5	LDWRI-Benthic	9/28/2004	Biphenyl	4.3	ug/kg dw	J	1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	Biphenyl	4.8	ug/kg dw	J	2.79						
DR091	1.5	EPA SI	8/31/1998	Bis(2-ethylhexyl)phthalate	0.11	mg/kg dw		0.86	13	47	78	mg/kg OC	0.28	0.17
DR092	1.6	EPA SI	8/27/1998	Bis(2-ethylhexyl)phthalate	0.11	mg/kg dw		0.7	16	47	78	mg/kg OC	0.34	0.21
DR144	1.5	EPA SI	8/17/1998	Bis(2-ethylhexyl)phthalate	0.61	mg/kg dw		1.84	33	47	78	mg/kg OC	0.7	0.42
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	0.14	mg/kg dw	J	1.48	9.5	47	78	mg/kg OC	0.2	0.12
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	10	ug/kg dw	J	0.34		1300	1900	ug/kg dw	0.0077	0.0053
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	0.023	mg/kg dw	J	0.98	2.3	47	78	mg/kg OC	0.049	0.029
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	0.36	mg/kg dw	J	2.04	18	47	78	mg/kg OC	0.38	0.23
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	0.07	mg/kg dw	J	1.18	5.9	47	78	mg/kg OC	0.13	0.076
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	0.022	mg/kg dw	J	0.71	3.1	47	78	mg/kg OC	0.066	0.04

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	0.07	mg/kg dw	J	2.9	2.4	47	78	mg/kg OC	0.051	0.031
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	39	ug/kg dw	J	0.47		1300	1900	ug/kg dw	0.03	0.021
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Bis(2-ethylhexyl)phthalate	0.11	mg/kg dw	J	1.01	11	47	78	mg/kg OC	0.23	0.14
B5b	1.5	LDWRI-Benthic	9/28/2004	Bis(2-ethylhexyl)phthalate	0.11	mg/kg dw	J	1.39	7.9	47	78	mg/kg OC	0.17	0.1
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Bis(2-ethylhexyl)phthalate	0.095	mg/kg dw		2.4	4	47	78	mg/kg OC	0.085	0.051
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Bis(2-ethylhexyl)phthalate	0.2	mg/kg dw		2.02	9.9	47	78	mg/kg OC	0.21	0.13
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Bis(2-ethylhexyl)phthalate	0.02	mg/kg dw		1.08	1.9	47	78	mg/kg OC	0.04	0.024
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Bis(2-ethylhexyl)phthalate	0.24	mg/kg dw		1.69	14	47	78	mg/kg OC	0.3	0.18
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Bis(2-ethylhexyl)phthalate	0.074	mg/kg dw		1.68	4.4	47	78	mg/kg OC	0.094	0.056
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Bis(2-ethylhexyl)phthalate	0.1	mg/kg dw		1.75	5.7	47	78	mg/kg OC	0.12	0.073
DR025	1.2	EPA SI	8/17/1998	Bis(2-ethylhexyl)phthalate	0.49	mg/kg dw		2.83	17	47	78	mg/kg OC	0.36	0.22
DR026	1.3	EPA SI	8/17/1998	Bis(2-ethylhexyl)phthalate	0.46	mg/kg dw		3.24	14	47	78	mg/kg OC	0.3	0.18
DR027	1.3	EPA SI	8/17/1998	Bis(2-ethylhexyl)phthalate	0.53	mg/kg dw		2.49	21	47	78	mg/kg OC	0.45	0.27
DR064	1.3	EPA SI	8/17/1998	Bis(2-ethylhexyl)phthalate	0.47	mg/kg dw		2.58	18	47	78	mg/kg OC	0.38	0.23
B4b	1.4	LDWRI-Benthic	8/28/2004	Bis(2-ethylhexyl)phthalate	0.14	mg/kg dw	J	2.79	5	47	78	mg/kg OC	0.11	0.064
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Bis(2-ethylhexyl)phthalate	0.38	mg/kg dw		2.04	19	47	78	mg/kg OC	0.4	0.24
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Bis(2-ethylhexyl)phthalate	0.36	mg/kg dw		2.11	17	47	78	mg/kg OC	0.36	0.22
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Bis(2-ethylhexyl)phthalate	0.46	mg/kg dw		2.33	20	47	78	mg/kg OC	0.43	0.26
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Butyl benzyl phthalate	0.03	mg/kg dw		1.48	2	4.9	64	mg/kg OC	0.41	0.031
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Butyl benzyl phthalate	0.007	mg/kg dw	J	1.01	0.69	4.9	64	mg/kg OC	0.14	0.011
B5b	1.5	LDWRI-Benthic	9/28/2004	Butyl benzyl phthalate	0.0085	mg/kg dw	J	1.39	0.61	4.9	64	mg/kg OC	0.12	0.0095
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Butyl benzyl phthalate	0.03	mg/kg dw		2.11	1.4	4.9	64	mg/kg OC	0.29	0.022
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Butyl benzyl phthalate	0.033	mg/kg dw		2.33	1.4	4.9	64	mg/kg OC	0.29	0.022
B5b	1.5	LDWRI-Benthic	9/28/2004	C1-Chrysenes	200	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C1-Fluoranthene/Pyrene	470	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C1-Fluorenes	5.8	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C1-Phenanthrenes/Anthracenes	94	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C2-Chrysenes	100	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C2-Dibenzothiophenes	20	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C2-Fluorenes	17	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C2-Naphthalenes	21	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C2-Phenanthrenes/Anthracenes	71	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C3-Chrysenes	70	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C3-Dibenzothiophenes	27	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C3-Fluorenes	30	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C3-Naphthalenes	25	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C3-Phenanthrenes/Anthracenes	60	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C4-Chrysenes	31	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C4-Naphthalenes	18	ug/kg dw		1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	C4-Phenanthrenes/Anthracenes	47	ug/kg dw		1.39						
DR091	1.5	EPA SI	8/31/1998	Cadmium	0.3	mg/kg dw		0.86		5.1	6.7	mg/kg dw	0.059	0.045
DR092	1.6	EPA SI	8/27/1998	Cadmium	0.2	mg/kg dw		0.7		5.1	6.7	mg/kg dw	0.039	0.03
DR144	1.5	EPA SI	8/17/1998	Cadmium	0.64	mg/kg dw		1.84		5.1	6.7	mg/kg dw	0.13	0.096
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Cadmium	0.19	mg/kg dw		1.48		5.1	6.7	mg/kg dw	0.037	0.028
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Cadmium	0.03	mg/kg dw	J	0.34		5.1	6.7	mg/kg dw	0.0059	0.0045
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Cadmium	0.05	mg/kg dw	J	0.98		5.1	6.7	mg/kg dw	0.0098	0.0075
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Cadmium	1.05	mg/kg dw		2.04		5.1	6.7	mg/kg dw	0.21	0.16
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Cadmium	0.16	mg/kg dw		1.18		5.1	6.7	mg/kg dw	0.031	0.024
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Cadmium	0.07	mg/kg dw		0.71		5.1	6.7	mg/kg dw	0.014	0.01
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Cadmium	0.24	mg/kg dw		2.9		5.1	6.7	mg/kg dw	0.047	0.036
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Cadmium	0.23	mg/kg dw		0.47		5.1	6.7	mg/kg dw	0.045	0.034
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Cadmium	0.49	mg/kg dw		1.01		5.1	6.7	mg/kg dw	0.096	0.073
B5b	1.5	LDWRI-Benthic	9/28/2004	Cadmium	0.257	mg/kg dw		1.39		5.1	6.7	mg/kg dw	0.05	0.038
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Cadmium	0.7	mg/kg dw		2.4		5.1	6.7	mg/kg dw	0.14	0.1
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Cadmium	0.5	mg/kg dw		2.02		5.1	6.7	mg/kg dw	0.098	0.075
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Cadmium	0.5	mg/kg dw		1.69		5.1	6.7	mg/kg dw	0.098	0.075

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Cadmium	0.4	mg/kg dw		2.44		5.1	6.7	mg/kg dw	0.078	0.06
DR025	1.2	EPA SI	8/17/1998	Cadmium	0.46	mg/kg dw		2.83		5.1	6.7	mg/kg dw	0.09	0.069
DR026	1.3	EPA SI	8/17/1998	Cadmium	0.49	mg/kg dw		3.24		5.1	6.7	mg/kg dw	0.096	0.073
DR027	1.3	EPA SI	8/17/1998	Cadmium	0.44	mg/kg dw		2.49		5.1	6.7	mg/kg dw	0.086	0.066
DR064	1.3	EPA SI	8/17/1998	Cadmium	0.45	mg/kg dw		2.58		5.1	6.7	mg/kg dw	0.088	0.067
B4b	1.4	LDWRI-Benthic	8/28/2004	Cadmium	0.58	mg/kg dw		2.79		5.1	6.7	mg/kg dw	0.11	0.087
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Cadmium	0.7	mg/kg dw		2.04		5.1	6.7	mg/kg dw	0.14	0.1
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Cadmium	0.6	mg/kg dw		2.11		5.1	6.7	mg/kg dw	0.12	0.09
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Cadmium	0.4	mg/kg dw		2.33		5.1	6.7	mg/kg dw	0.078	0.06
DR091	1.5	EPA SI	8/31/1998	Carbazole	30	ug/kg dw		0.86						
DR144	1.5	EPA SI	8/17/1998	Carbazole	50	ug/kg dw		1.84						
B5b	1.5	LDWRI-Benthic	9/28/2004	Carbazole	20	ug/kg dw		1.39						
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Carbazole	38	ug/kg dw		1.75						
DR025	1.2	EPA SI	8/17/1998	Carbazole	30	ug/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Carbazole	30	ug/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Carbazole	40	ug/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Carbazole	40	ug/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Carbazole	180	ug/kg dw	J	2.79						
DR092	1.6	EPA SI	8/27/1998	Carbon disulfide	0.84	ug/kg dw	J	0.7						
DR025	1.2	EPA SI	8/17/1998	Carbon disulfide	1.3	ug/kg dw	J	2.83						
DR091	1.5	EPA SI	8/31/1998	Chromium	26	mg/kg dw	J	0.86		260	270	mg/kg dw	0.1	0.096
DR092	1.6	EPA SI	8/27/1998	Chromium	15	mg/kg dw		0.7		260	270	mg/kg dw	0.058	0.056
DR144	1.5	EPA SI	8/17/1998	Chromium	36	mg/kg dw		1.84		260	270	mg/kg dw	0.14	0.13
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Chromium	11.6	mg/kg dw		1.48		260	270	mg/kg dw	0.045	0.043
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Chromium	7.2	mg/kg dw		0.34		260	270	mg/kg dw	0.028	0.027
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Chromium	4.8	mg/kg dw		0.98		260	270	mg/kg dw	0.018	0.018
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Chromium	24.2	mg/kg dw		2.04		260	270	mg/kg dw	0.093	0.09
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Chromium	14.5	mg/kg dw		1.18		260	270	mg/kg dw	0.056	0.054
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Chromium	10.1	mg/kg dw		0.71		260	270	mg/kg dw	0.039	0.037
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Chromium	19.8	mg/kg dw		2.9		260	270	mg/kg dw	0.076	0.073
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Chromium	23	mg/kg dw	J	0.47		260	270	mg/kg dw	0.088	0.085
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Chromium	24.5	mg/kg dw		1.01		260	270	mg/kg dw	0.094	0.091
B5b	1.5	LDWRI-Benthic	9/28/2004	Chromium	20.3	mg/kg dw		1.39		260	270	mg/kg dw	0.078	0.075
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Chromium	39	mg/kg dw		2.4		260	270	mg/kg dw	0.15	0.14
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Chromium	25.6	mg/kg dw		2.02		260	270	mg/kg dw	0.098	0.095
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Chromium	12.1	mg/kg dw		1.08		260	270	mg/kg dw	0.047	0.045
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Chromium	27	mg/kg dw		1.69		260	270	mg/kg dw	0.1	0.1
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Chromium	20.9	mg/kg dw		1.68		260	270	mg/kg dw	0.08	0.077
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Chromium	25.2	mg/kg dw		2.44		260	270	mg/kg dw	0.097	0.093
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Chromium	16	mg/kg dw		1.75		260	270	mg/kg dw	0.062	0.059
DR025	1.2	EPA SI	8/17/1998	Chromium	31	mg/kg dw		2.83		260	270	mg/kg dw	0.12	0.11
DR026	1.3	EPA SI	8/17/1998	Chromium	35	mg/kg dw		3.24		260	270	mg/kg dw	0.13	0.13
DR027	1.3	EPA SI	8/17/1998	Chromium	29	mg/kg dw		2.49		260	270	mg/kg dw	0.11	0.11
DR064	1.3	EPA SI	8/17/1998	Chromium	30	mg/kg dw		2.58		260	270	mg/kg dw	0.12	0.11
B4b	1.4	LDWRI-Benthic	8/28/2004	Chromium	37.7	mg/kg dw		2.79		260	270	mg/kg dw	0.15	0.14
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Chromium	36.6	mg/kg dw		2.04		260	270	mg/kg dw	0.14	0.14
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Chromium	34	mg/kg dw		2.11		260	270	mg/kg dw	0.13	0.13
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Chromium	32	mg/kg dw		2.33		260	270	mg/kg dw	0.12	0.12
DR091	1.5	EPA SI	8/31/1998	Chrysene	0.38	mg/kg dw		0.86	44	110	460	mg/kg OC	0.4	0.096
DR092	1.6	EPA SI	8/27/1998	Chrysene	0.18	mg/kg dw		0.7	26	110	460	mg/kg OC	0.24	0.057
DR144	1.5	EPA SI	8/17/1998	Chrysene	0.41	mg/kg dw		1.84	22	110	460	mg/kg OC	0.2	0.048
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Chrysene	4.1	mg/kg dw		1.48	280	110	460	mg/kg OC	2.5	0.61
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Chrysene	56	ug/kg dw		0.34		1400	2800	ug/kg dw	0.04	0.02
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Chrysene	0.22	mg/kg dw		0.98	22	110	460	mg/kg OC	0.2	0.048
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Chrysene	0.2	mg/kg dw	J	2.04	9.8	110	460	mg/kg OC	0.089	0.021
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Chrysene	0.14	mg/kg dw		1.18	12	110	460	mg/kg OC	0.11	0.026

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Chrysene	0.027	mg/kg dw		0.71	3.8	110	460	mg/kg OC	0.035	0.0083
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Chrysene	0.1	mg/kg dw		2.9	3.4	110	460	mg/kg OC	0.031	0.0074
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Chrysene	140	ug/kg dw		0.47		1400	2800	ug/kg dw	0.1	0.05
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Chrysene	0.81	mg/kg dw		1.01	80	110	460	mg/kg OC	0.73	0.17
B5b	1.5	LDWRI-Benthic	9/28/2004	Chrysene	0.51	mg/kg dw		1.39	37	110	460	mg/kg OC	0.34	0.08
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Chrysene	0.24	mg/kg dw		2.4	10	110	460	mg/kg OC	0.091	0.022
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Chrysene	0.43	mg/kg dw		2.02	21	110	460	mg/kg OC	0.19	0.046
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Chrysene	0.084	mg/kg dw		1.08	7.8	110	460	mg/kg OC	0.071	0.017
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Chrysene	0.53	mg/kg dw		1.69	31	110	460	mg/kg OC	0.28	0.067
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Chrysene	0.071	mg/kg dw		1.68	4.2	110	460	mg/kg OC	0.038	0.0091
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Chrysene	0.18	mg/kg dw		2.44	7.4	110	460	mg/kg OC	0.067	0.016
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Chrysene	0.52	mg/kg dw		1.75	30	110	460	mg/kg OC	0.27	0.065
DR025	1.2	EPA SI	8/17/1998	Chrysene	0.61	mg/kg dw		2.83	22	110	460	mg/kg OC	0.2	0.048
DR026	1.3	EPA SI	8/17/1998	Chrysene	0.48	mg/kg dw		3.24	15	110	460	mg/kg OC	0.14	0.033
DR027	1.3	EPA SI	8/17/1998	Chrysene	0.54	mg/kg dw		2.49	22	110	460	mg/kg OC	0.2	0.048
DR064	1.3	EPA SI	8/17/1998	Chrysene	0.47	mg/kg dw		2.58	18	110	460	mg/kg OC	0.16	0.039
B4b	1.4	LDWRI-Benthic	8/28/2004	Chrysene	0.43	mg/kg dw		2.79	15	110	460	mg/kg OC	0.14	0.033
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Chrysene	0.35	mg/kg dw		2.04	17	110	460	mg/kg OC	0.15	0.037
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Chrysene	0.53	mg/kg dw		2.11	25	110	460	mg/kg OC	0.23	0.054
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Chrysene	0.38	mg/kg dw		2.33	16	110	460	mg/kg OC	0.15	0.035
DR091	1.5	EPA SI	8/31/1998	Cobalt	5	mg/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Cobalt	5	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Cobalt	10	mg/kg dw		1.84						
B5b	1.5	LDWRI-Benthic	9/28/2004	Cobalt	7.1	mg/kg dw		1.39						
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Cobalt	10.8	mg/kg dw		2.4						
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Cobalt	7.6	mg/kg dw		2.02						
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Cobalt	4.4	mg/kg dw		1.08						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Cobalt	10.8	mg/kg dw		1.69						
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Cobalt	6.6	mg/kg dw		1.68						
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Cobalt	7.8	mg/kg dw		2.44						
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Cobalt	4.6	mg/kg dw		1.75						
DR025	1.2	EPA SI	8/17/1998	Cobalt	9	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Cobalt	10	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Cobalt	9	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Cobalt	10	mg/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Cobalt	12	mg/kg dw		2.79						
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Cobalt	10	mg/kg dw		2.04						
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Cobalt	9.2	mg/kg dw		2.11						
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Cobalt	9.2	mg/kg dw		2.33						
DR091	1.5	EPA SI	8/31/1998	Copper	50	mg/kg dw	J	0.86		390	390	mg/kg dw	0.13	0.13
DR092	1.6	EPA SI	8/27/1998	Copper	26	mg/kg dw		0.7		390	390	mg/kg dw	0.067	0.067
DR144	1.5	EPA SI	8/17/1998	Copper	77	mg/kg dw		1.84		390	390	mg/kg dw	0.2	0.2
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Copper	25.7	mg/kg dw		1.48		390	390	mg/kg dw	0.066	0.066
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Copper	11.5	mg/kg dw		0.34		390	390	mg/kg dw	0.029	0.029
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Copper	18.8	mg/kg dw		0.98		390	390	mg/kg dw	0.048	0.048
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Copper	195	mg/kg dw		2.04		390	390	mg/kg dw	0.5	0.5
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Copper	21.4	mg/kg dw		1.18		390	390	mg/kg dw	0.055	0.055
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Copper	16.1	mg/kg dw		0.71		390	390	mg/kg dw	0.041	0.041
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Copper	37.7	mg/kg dw		2.9		390	390	mg/kg dw	0.097	0.097
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Copper	40.9	mg/kg dw	J	0.47		390	390	mg/kg dw	0.1	0.1
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Copper	62.9	mg/kg dw		1.01		390	390	mg/kg dw	0.16	0.16
B5b	1.5	LDWRI-Benthic	9/28/2004	Copper	42	mg/kg dw		1.39		390	390	mg/kg dw	0.11	0.11
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Copper	106	mg/kg dw		2.4		390	390	mg/kg dw	0.27	0.27
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Copper	66.2	mg/kg dw		2.02		390	390	mg/kg dw	0.17	0.17
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Copper	18.4	mg/kg dw		1.08		390	390	mg/kg dw	0.047	0.047
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Copper	107	mg/kg dw		1.69		390	390	mg/kg dw	0.27	0.27

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Copper	38.4	mg/kg dw		1.68		390	390	mg/kg dw	0.098	0.098
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Copper	58.9	mg/kg dw		2.44		390	390	mg/kg dw	0.15	0.15
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Copper	31.8	mg/kg dw	J	1.75		390	390	mg/kg dw	0.082	0.082
DR025	1.2	EPA SI	8/17/1998	Copper	73	mg/kg dw		2.83		390	390	mg/kg dw	0.19	0.19
DR026	1.3	EPA SI	8/17/1998	Copper	77	mg/kg dw		3.24		390	390	mg/kg dw	0.2	0.2
DR027	1.3	EPA SI	8/17/1998	Copper	70	mg/kg dw		2.49		390	390	mg/kg dw	0.18	0.18
DR064	1.3	EPA SI	8/17/1998	Copper	72	mg/kg dw		2.58		390	390	mg/kg dw	0.18	0.18
B4b	1.4	LDWRI-Benthic	8/28/2004	Copper	86.6	mg/kg dw		2.79		390	390	mg/kg dw	0.22	0.22
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Copper	107	mg/kg dw		2.04		390	390	mg/kg dw	0.27	0.27
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Copper	96	mg/kg dw		2.11		390	390	mg/kg dw	0.25	0.25
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Copper	82	mg/kg dw		2.33		390	390	mg/kg dw	0.21	0.21
B5b	1.5	LDWRI-Benthic	9/28/2004	DDTs (total-calc'd)	20.9	ug/kg dw	JN	1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	DDTs (total-calc'd)	6.3	ug/kg dw	JN	2.79						
DR091	1.5	EPA SI	8/31/1998	Dibenzo(a,h)anthracene	0.04	mg/kg dw		0.86	4.7	12	33	mg/kg OC	0.39	0.14
DR144	1.5	EPA SI	8/17/1998	Dibenzo(a,h)anthracene	0.05	mg/kg dw		1.84	2.7	12	33	mg/kg OC	0.23	0.082
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Dibenzo(a,h)anthracene	0.035	mg/kg dw		1.48	2.4	12	33	mg/kg OC	0.2	0.073
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Dibenzo(a,h)anthracene	2	ug/kg dw	J	0.34		230	540	ug/kg dw	0.0087	0.0037
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Dibenzo(a,h)anthracene	0.02	mg/kg dw	J	0.98	2	12	33	mg/kg OC	0.17	0.061
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Dibenzo(a,h)anthracene	0.02	mg/kg dw	J	2.04	0.98	12	33	mg/kg OC	0.082	0.03
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Dibenzo(a,h)anthracene	0.01	mg/kg dw	J	1.18	0.85	12	33	mg/kg OC	0.071	0.026
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Dibenzo(a,h)anthracene	0.003	mg/kg dw	J	0.71	0.42	12	33	mg/kg OC	0.035	0.013
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Dibenzo(a,h)anthracene	10	ug/kg dw	J	0.47		230	540	ug/kg dw	0.043	0.019
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Dibenzo(a,h)anthracene	0.047	mg/kg dw		1.01	4.7	12	33	mg/kg OC	0.39	0.14
B5b	1.5	LDWRI-Benthic	9/28/2004	Dibenzo(a,h)anthracene	0.024	mg/kg dw		1.39	1.7	12	33	mg/kg OC	0.14	0.052
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Dibenzo(a,h)anthracene	0.028	mg/kg dw		1.75	1.6	12	33	mg/kg OC	0.13	0.048
DR025	1.2	EPA SI	8/17/1998	Dibenzo(a,h)anthracene	0.05	mg/kg dw		2.83	1.8	12	33	mg/kg OC	0.15	0.055
DR026	1.3	EPA SI	8/17/1998	Dibenzo(a,h)anthracene	0.05	mg/kg dw		3.24	1.5	12	33	mg/kg OC	0.13	0.045
DR027	1.3	EPA SI	8/17/1998	Dibenzo(a,h)anthracene	0.05	mg/kg dw		2.49	2	12	33	mg/kg OC	0.17	0.061
DR064	1.3	EPA SI	8/17/1998	Dibenzo(a,h)anthracene	0.05	mg/kg dw		2.58	1.9	12	33	mg/kg OC	0.16	0.058
B4b	1.4	LDWRI-Benthic	8/28/2004	Dibenzo(a,h)anthracene	0.026	mg/kg dw		2.79	0.93	12	33	mg/kg OC	0.078	0.028
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Dibenzo(a,h)anthracene	0.038	mg/kg dw		2.11	1.8	12	33	mg/kg OC	0.15	0.055
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Dibenzo(a,h)anthracene	0.037	mg/kg dw		2.33	1.6	12	33	mg/kg OC	0.13	0.048
DR091	1.5	EPA SI	8/31/1998	Dibenzofuran	0.06	mg/kg dw		0.86	7	15	58	mg/kg OC	0.47	0.12
DR092	1.6	EPA SI	8/27/1998	Dibenzofuran	0.04	mg/kg dw		0.7	5.7	15	58	mg/kg OC	0.38	0.098
DR144	1.5	EPA SI	8/17/1998	Dibenzofuran	0.07	mg/kg dw		1.84	3.8	15	58	mg/kg OC	0.25	0.066
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Dibenzofuran	0.02	mg/kg dw	J	1.48	1.4	15	58	mg/kg OC	0.093	0.024
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Dibenzofuran	1	ug/kg dw	J	0.34		540	700	ug/kg dw	0.0019	0.0014
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Dibenzofuran	0.046	mg/kg dw		0.98	4.7	15	58	mg/kg OC	0.31	0.081
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Dibenzofuran	0.007	mg/kg dw	J	2.04	0.34	15	58	mg/kg OC	0.023	0.0059
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Dibenzofuran	0.004	mg/kg dw	J	1.18	0.34	15	58	mg/kg OC	0.023	0.0059
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Dibenzofuran	0.001	mg/kg dw	J	0.71	0.14	15	58	mg/kg OC	0.0093	0.0024
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Dibenzofuran	0.003	mg/kg dw	J	2.9	0.1	15	58	mg/kg OC	0.0067	0.0017
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Dibenzofuran	23	ug/kg dw		0.47		540	700	ug/kg dw	0.043	0.033
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Dibenzofuran	0.01	mg/kg dw	J	1.01	0.99	15	58	mg/kg OC	0.066	0.017
B5b	1.5	LDWRI-Benthic	9/28/2004	Dibenzofuran	0.011	mg/kg dw		1.39	0.79	15	58	mg/kg OC	0.053	0.014
DR025	1.2	EPA SI	8/17/1998	Dibenzofuran	0.04	mg/kg dw		2.83	1.4	15	58	mg/kg OC	0.093	0.024
DR026	1.3	EPA SI	8/17/1998	Dibenzofuran	0.02	mg/kg dw		3.24	0.62	15	58	mg/kg OC	0.041	0.011
DR027	1.3	EPA SI	8/17/1998	Dibenzofuran	0.03	mg/kg dw		2.49	1.2	15	58	mg/kg OC	0.08	0.021
DR064	1.3	EPA SI	8/17/1998	Dibenzofuran	0.04	mg/kg dw		2.58	1.6	15	58	mg/kg OC	0.11	0.028
B4b	1.4	LDWRI-Benthic	8/28/2004	Dibenzofuran	0.013	mg/kg dw		2.79	0.47	15	58	mg/kg OC	0.031	0.0081
B5b	1.5	LDWRI-Benthic	9/28/2004	Dibenzothiophene	6.8	ug/kg dw		1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	Dibenzothiophene	9	ug/kg dw		2.79						
DR092	1.6	EPA SI	8/27/1998	Dibutyltin as ion	7	ug/kg dw	J	0.7						
B5b	1.5	LDWRI-Benthic	9/28/2004	Dibutyltin as ion	18	ug/kg dw		1.39						
DR025	1.2	EPA SI	8/17/1998	Dibutyltin as ion	35	ug/kg dw	J	2.83						
B4b	1.4	LDWRI-Benthic	8/28/2004	Dibutyltin as ion	44	ug/kg dw		2.79						

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Diethyl phthalate	0.002	mg/kg dw	J	1.48	0.14	61	110	mg/kg OC	0.0023	0.0013
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Diethyl phthalate	0.002	mg/kg dw	J	0.98	0.2	61	110	mg/kg OC	0.0033	0.0018
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Diethyl phthalate	0.007	mg/kg dw	J	2.04	0.34	61	110	mg/kg OC	0.0056	0.0031
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Diethyl phthalate	0.005	mg/kg dw	J	2.9	0.17	61	110	mg/kg OC	0.0028	0.0015
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Dimethyl phthalate	0.002	mg/kg dw	J	1.48	0.14	53	53	mg/kg OC	0.0026	0.0026
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Dimethyl phthalate	0.005	mg/kg dw	J	2.04	0.25	53	53	mg/kg OC	0.0047	0.0047
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Dimethyl phthalate	0.002	mg/kg dw	J	1.01	0.2	53	53	mg/kg OC	0.0038	0.0038
B5b	1.5	LDWRI-Benthic	9/28/2004	Dimethyl phthalate	0.0036	mg/kg dw	J	1.39	0.26	53	53	mg/kg OC	0.0049	0.0049
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Dimethyl phthalate	0.0062	mg/kg dw		2.11	0.29	53	53	mg/kg OC	0.0055	0.0055
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Dimethyl phthalate	0.0086	mg/kg dw		2.33	0.37	53	53	mg/kg OC	0.007	0.007
DR144	1.5	EPA SI	8/17/1998	Di-n-butyl phthalate	0.02	mg/kg dw		1.84	1.1	220	1700	mg/kg OC	0.005	0.00065
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Di-n-butyl phthalate	0.008	mg/kg dw	J	1.48	0.54	220	1700	mg/kg OC	0.0025	0.00032
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Di-n-butyl phthalate	0.003	mg/kg dw	J	0.98	0.31	220	1700	mg/kg OC	0.0014	0.00018
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Di-n-butyl phthalate	0.035	mg/kg dw		1.18	3	220	1700	mg/kg OC	0.014	0.0018
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Di-n-butyl phthalate	0.004	mg/kg dw	J	0.71	0.56	220	1700	mg/kg OC	0.0025	0.00033
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Di-n-butyl phthalate	0.009	mg/kg dw	J	2.9	0.31	220	1700	mg/kg OC	0.0014	0.00018
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Di-n-butyl phthalate	5	ug/kg dw	J	0.47		1400	5100	ug/kg dw	0.0036	0.00098
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Di-n-butyl phthalate	0.005	mg/kg dw	J	1.01	0.5	220	1700	mg/kg OC	0.0023	0.00029
B5b	1.5	LDWRI-Benthic	9/28/2004	Di-n-butyl phthalate	0.0086	mg/kg dw	J	1.39	0.62	220	1700	mg/kg OC	0.0028	0.00036
DR025	1.2	EPA SI	8/17/1998	Di-n-butyl phthalate	0.03	mg/kg dw		2.83	1.1	220	1700	mg/kg OC	0.005	0.00065
DR026	1.3	EPA SI	8/17/1998	Di-n-butyl phthalate	0.03	mg/kg dw		3.24	0.93	220	1700	mg/kg OC	0.0042	0.00055
DR027	1.3	EPA SI	8/17/1998	Di-n-butyl phthalate	0.03	mg/kg dw		2.49	1.2	220	1700	mg/kg OC	0.0055	0.00071
DR064	1.3	EPA SI	8/17/1998	Di-n-butyl phthalate	0.03	mg/kg dw		2.58	1.2	220	1700	mg/kg OC	0.0055	0.00071
B4b	1.4	LDWRI-Benthic	8/28/2004	Di-n-butyl phthalate	0.0093	mg/kg dw	J	2.79	0.33	220	1700	mg/kg OC	0.0015	0.00019
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Di-n-octyl phthalate	0.046	mg/kg dw		1.48	3.1	58	4500	mg/kg OC	0.053	0.00069
DR091	1.5	EPA SI	8/31/1998	Fluoranthene	1.1	mg/kg dw		0.86	130	160	1200	mg/kg OC	0.81	0.11
DR092	1.6	EPA SI	8/27/1998	Fluoranthene	0.4	mg/kg dw		0.7	57	160	1200	mg/kg OC	0.36	0.048
DR144	1.5	EPA SI	8/17/1998	Fluoranthene	0.8	mg/kg dw		1.84	43	160	1200	mg/kg OC	0.27	0.036
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Fluoranthene	2.2	mg/kg dw		1.48	150	160	1200	mg/kg OC	0.94	0.13
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Fluoranthene	53	ug/kg dw		0.34		1700	2500	ug/kg dw	0.031	0.021
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Fluoranthene	0.96	mg/kg dw		0.98	98	160	1200	mg/kg OC	0.61	0.082
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Fluoranthene	0.1	mg/kg dw	J	2.04	4.9	160	1200	mg/kg OC	0.031	0.0041
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Fluoranthene	0.17	mg/kg dw		1.18	14	160	1200	mg/kg OC	0.088	0.012
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Fluoranthene	0.045	mg/kg dw		0.71	6.3	160	1200	mg/kg OC	0.039	0.0053
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Fluoranthene	0.085	mg/kg dw		2.9	2.9	160	1200	mg/kg OC	0.018	0.0024
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Fluoranthene	210	ug/kg dw		0.47		1700	2500	ug/kg dw	0.12	0.084
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Fluoranthene	0.81	mg/kg dw		1.01	80	160	1200	mg/kg OC	0.5	0.067
B5b	1.5	LDWRI-Benthic	9/28/2004	Fluoranthene	0.89	mg/kg dw		1.39	64	160	1200	mg/kg OC	0.4	0.053
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Fluoranthene	0.25	mg/kg dw		2.4	10	160	1200	mg/kg OC	0.063	0.0083
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Fluoranthene	0.42	mg/kg dw		2.02	21	160	1200	mg/kg OC	0.13	0.018
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Fluoranthene	0.18	mg/kg dw		1.08	17	160	1200	mg/kg OC	0.11	0.014
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Fluoranthene	0.82	mg/kg dw		1.69	49	160	1200	mg/kg OC	0.31	0.041
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Fluoranthene	0.068	mg/kg dw		1.68	4	160	1200	mg/kg OC	0.025	0.0033
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Fluoranthene	0.28	mg/kg dw		2.44	11	160	1200	mg/kg OC	0.069	0.0092
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Fluoranthene	0.74	mg/kg dw		1.75	42	160	1200	mg/kg OC	0.26	0.035
DR025	1.2	EPA SI	8/17/1998	Fluoranthene	1.2	mg/kg dw		2.83	42	160	1200	mg/kg OC	0.26	0.035
DR026	1.3	EPA SI	8/17/1998	Fluoranthene	0.81	mg/kg dw		3.24	25	160	1200	mg/kg OC	0.16	0.021
DR027	1.3	EPA SI	8/17/1998	Fluoranthene	0.85	mg/kg dw		2.49	34	160	1200	mg/kg OC	0.21	0.028
DR064	1.3	EPA SI	8/17/1998	Fluoranthene	0.91	mg/kg dw		2.58	35	160	1200	mg/kg OC	0.22	0.029
B4b	1.4	LDWRI-Benthic	8/28/2004	Fluoranthene	0.62	mg/kg dw		2.79	22	160	1200	mg/kg OC	0.14	0.018
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Fluoranthene	0.47	mg/kg dw		2.04	23	160	1200	mg/kg OC	0.14	0.019
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Fluoranthene	0.86	mg/kg dw		2.11	41	160	1200	mg/kg OC	0.26	0.034
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Fluoranthene	0.52	mg/kg dw		2.33	22	160	1200	mg/kg OC	0.14	0.018
DR091	1.5	EPA SI	8/31/1998	Fluorene	0.09	mg/kg dw		0.86	10	23	79	mg/kg OC	0.43	0.13
DR092	1.6	EPA SI	8/27/1998	Fluorene	0.05	mg/kg dw		0.7	7.1	23	79	mg/kg OC	0.31	0.09
DR144	1.5	EPA SI	8/17/1998	Fluorene	0.1	mg/kg dw		1.84	5.4	23	79	mg/kg OC	0.23	0.068

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Fluorene	0.056	mg/kg dw		1.48	3.8	23	79	mg/kg OC	0.17	0.048
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Fluorene	4	ug/kg dw	J	0.34		540	1000	ug/kg dw	0.0074	0.004
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Fluorene	0.064	mg/kg dw		0.98	6.5	23	79	mg/kg OC	0.28	0.082
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Fluorene	0.02	mg/kg dw	J	2.04	0.98	23	79	mg/kg OC	0.043	0.012
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Fluorene	0.01	mg/kg dw	J	1.18	0.85	23	79	mg/kg OC	0.037	0.011
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Fluorene	0.008	mg/kg dw	J	2.9	0.28	23	79	mg/kg OC	0.012	0.0035
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Fluorene	29	ug/kg dw		0.47		540	1000	ug/kg dw	0.054	0.029
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Fluorene	0.035	mg/kg dw		1.01	3.5	23	79	mg/kg OC	0.15	0.044
B5b	1.5	LDWRI-Benthic	9/28/2004	Fluorene	0.018	mg/kg dw		1.39	1.3	23	79	mg/kg OC	0.057	0.016
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Fluorene	0.028	mg/kg dw		1.75	1.6	23	79	mg/kg OC	0.07	0.02
DR025	1.2	EPA SI	8/17/1998	Fluorene	0.05	mg/kg dw		2.83	1.8	23	79	mg/kg OC	0.078	0.023
DR026	1.3	EPA SI	8/17/1998	Fluorene	0.04	mg/kg dw		3.24	1.2	23	79	mg/kg OC	0.052	0.015
DR027	1.3	EPA SI	8/17/1998	Fluorene	0.06	mg/kg dw		2.49	2.4	23	79	mg/kg OC	0.1	0.03
DR064	1.3	EPA SI	8/17/1998	Fluorene	0.06	mg/kg dw		2.58	2.3	23	79	mg/kg OC	0.1	0.029
B4b	1.4	LDWRI-Benthic	8/28/2004	Fluorene	0.019	mg/kg dw		2.79	0.68	23	79	mg/kg OC	0.03	0.0086
B5b	1.5	LDWRI-Benthic	9/28/2004	Heptachlor epoxide	0.0049	mg/kg dw	JN	1.39						
DR091	1.5	EPA SI	8/31/1998	Indeno(1,2,3-cd)pyrene	0.12	mg/kg dw		0.86	14	34	88	mg/kg OC	0.41	0.16
DR092	1.6	EPA SI	8/27/1998	Indeno(1,2,3-cd)pyrene	0.06	mg/kg dw		0.7	8.6	34	88	mg/kg OC	0.25	0.098
DR144	1.5	EPA SI	8/17/1998	Indeno(1,2,3-cd)pyrene	0.16	mg/kg dw		1.84	8.7	34	88	mg/kg OC	0.26	0.099
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	0.13	mg/kg dw		1.48	8.8	34	88	mg/kg OC	0.26	0.1
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	7	ug/kg dw	J	0.34		600	690	ug/kg dw	0.012	0.01
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	0.067	mg/kg dw		0.98	6.8	34	88	mg/kg OC	0.2	0.077
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	0.1	mg/kg dw	J	2.04	4.9	34	88	mg/kg OC	0.14	0.056
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	0.055	mg/kg dw		1.18	4.7	34	88	mg/kg OC	0.14	0.053
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	0.01	mg/kg dw	J	0.71	1.4	34	88	mg/kg OC	0.041	0.016
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	0.02	mg/kg dw	J	2.9	0.69	34	88	mg/kg OC	0.02	0.0078
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	44	ug/kg dw		0.47		600	690	ug/kg dw	0.073	0.064
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Indeno(1,2,3-cd)pyrene	0.17	mg/kg dw		1.01	17	34	88	mg/kg OC	0.5	0.19
B5b	1.5	LDWRI-Benthic	9/28/2004	Indeno(1,2,3-cd)pyrene	0.13	mg/kg dw		1.39	9.4	34	88	mg/kg OC	0.28	0.11
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Indeno(1,2,3-cd)pyrene	0.032	mg/kg dw		2.4	1.3	34	88	mg/kg OC	0.038	0.015
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Indeno(1,2,3-cd)pyrene	0.03	mg/kg dw		2.02	1.5	34	88	mg/kg OC	0.044	0.017
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Indeno(1,2,3-cd)pyrene	0.13	mg/kg dw		1.69	7.7	34	88	mg/kg OC	0.23	0.088
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Indeno(1,2,3-cd)pyrene	0.037	mg/kg dw		1.68	2.2	34	88	mg/kg OC	0.065	0.025
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Indeno(1,2,3-cd)pyrene	0.063	mg/kg dw		2.44	2.6	34	88	mg/kg OC	0.076	0.03
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Indeno(1,2,3-cd)pyrene	0.074	mg/kg dw		1.75	4.2	34	88	mg/kg OC	0.12	0.048
DR025	1.2	EPA SI	8/17/1998	Indeno(1,2,3-cd)pyrene	0.23	mg/kg dw		2.83	8.1	34	88	mg/kg OC	0.24	0.092
DR026	1.3	EPA SI	8/17/1998	Indeno(1,2,3-cd)pyrene	0.22	mg/kg dw		3.24	6.8	34	88	mg/kg OC	0.2	0.077
DR027	1.3	EPA SI	8/17/1998	Indeno(1,2,3-cd)pyrene	0.22	mg/kg dw		2.49	8.8	34	88	mg/kg OC	0.26	0.1
DR064	1.3	EPA SI	8/17/1998	Indeno(1,2,3-cd)pyrene	0.21	mg/kg dw		2.58	8.1	34	88	mg/kg OC	0.24	0.092
B4b	1.4	LDWRI-Benthic	8/28/2004	Indeno(1,2,3-cd)pyrene	0.14	mg/kg dw		2.79	5	34	88	mg/kg OC	0.15	0.057
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Indeno(1,2,3-cd)pyrene	0.02	mg/kg dw		2.04	0.98	34	88	mg/kg OC	0.029	0.011
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Indeno(1,2,3-cd)pyrene	0.13	mg/kg dw		2.11	6.2	34	88	mg/kg OC	0.18	0.07
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Indeno(1,2,3-cd)pyrene	0.098	mg/kg dw		2.33	4.2	34	88	mg/kg OC	0.12	0.048
DR091	1.5	EPA SI	8/31/1998	Iron	17900	mg/kg dw	J	0.86						
DR092	1.6	EPA SI	8/27/1998	Iron	15000	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Iron	26100	mg/kg dw		1.84						
DR025	1.2	EPA SI	8/17/1998	Iron	29800	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Iron	32400	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Iron	28400	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Iron	30400	mg/kg dw		2.58						
DR091	1.5	EPA SI	8/31/1998	Lead	46.1	mg/kg dw	J	0.86		450	530	mg/kg dw	0.1	0.087
DR092	1.6	EPA SI	8/27/1998	Lead	15.7	mg/kg dw		0.7		450	530	mg/kg dw	0.035	0.03
DR144	1.5	EPA SI	8/17/1998	Lead	65.2	mg/kg dw		1.84		450	530	mg/kg dw	0.14	0.12
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Lead	134	mg/kg dw		1.48		450	530	mg/kg dw	0.3	0.25
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Lead	10.2	mg/kg dw		0.34		450	530	mg/kg dw	0.023	0.019
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Lead	13.7	mg/kg dw		0.98		450	530	mg/kg dw	0.03	0.026

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Lead	52.4	mg/kg dw		2.04		450	530	mg/kg dw	0.12	0.099
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Lead	29.2	mg/kg dw		1.18		450	530	mg/kg dw	0.065	0.055
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Lead	18.6	mg/kg dw		0.71		450	530	mg/kg dw	0.041	0.035
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Lead	40.3	mg/kg dw		2.9		450	530	mg/kg dw	0.09	0.076
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Lead	18.4	mg/kg dw		0.47		450	530	mg/kg dw	0.041	0.035
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Lead	101	mg/kg dw		1.01		450	530	mg/kg dw	0.22	0.19
B5b	1.5	LDWRI-Benthic	9/28/2004	Lead	30.8	mg/kg dw		1.39		450	530	mg/kg dw	0.068	0.058
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Lead	64	mg/kg dw		2.4		450	530	mg/kg dw	0.14	0.12
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Lead	38	mg/kg dw		2.02		450	530	mg/kg dw	0.084	0.072
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Lead	9	mg/kg dw		1.08		450	530	mg/kg dw	0.02	0.017
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Lead	50	mg/kg dw		1.69		450	530	mg/kg dw	0.11	0.094
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Lead	19	mg/kg dw		1.68		450	530	mg/kg dw	0.042	0.036
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Lead	34	mg/kg dw		2.44		450	530	mg/kg dw	0.076	0.064
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Lead	22	mg/kg dw		1.75		450	530	mg/kg dw	0.049	0.042
DR025	1.2	EPA SI	8/17/1998	Lead	45.3	mg/kg dw		2.83		450	530	mg/kg dw	0.1	0.085
DR026	1.3	EPA SI	8/17/1998	Lead	45.2	mg/kg dw		3.24		450	530	mg/kg dw	0.1	0.085
DR027	1.3	EPA SI	8/17/1998	Lead	43.8	mg/kg dw		2.49		450	530	mg/kg dw	0.097	0.083
DR064	1.3	EPA SI	8/17/1998	Lead	39.8	mg/kg dw		2.58		450	530	mg/kg dw	0.088	0.075
B4b	1.4	LDWRI-Benthic	8/28/2004	Lead	79.4	mg/kg dw		2.79		450	530	mg/kg dw	0.18	0.15
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Lead	62	mg/kg dw		2.04		450	530	mg/kg dw	0.14	0.12
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Lead	61	mg/kg dw		2.11		450	530	mg/kg dw	0.14	0.12
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Lead	45	mg/kg dw		2.33		450	530	mg/kg dw	0.1	0.085
DR091	1.5	EPA SI	8/31/1998	Manganese	192	mg/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Manganese	140	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Manganese	266	mg/kg dw		1.84						
DR025	1.2	EPA SI	8/17/1998	Manganese	349	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Manganese	356	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Manganese	317	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Manganese	341	mg/kg dw		2.58						
DR091	1.5	EPA SI	8/31/1998	Mercury	0.07	mg/kg dw		0.86		0.41	0.59	mg/kg dw	0.17	0.12
DR092	1.6	EPA SI	8/27/1998	Mercury	0.07	mg/kg dw		0.7		0.41	0.59	mg/kg dw	0.17	0.12
DR144	1.5	EPA SI	8/17/1998	Mercury	0.22	mg/kg dw		1.84		0.41	0.59	mg/kg dw	0.54	0.37
B5b	1.5	LDWRI-Benthic	9/28/2004	Mercury	0.095	mg/kg dw		1.39		0.41	0.59	mg/kg dw	0.23	0.16
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Mercury	0.3	mg/kg dw		2.4		0.41	0.59	mg/kg dw	0.73	0.51
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Mercury	0.19	mg/kg dw		2.02		0.41	0.59	mg/kg dw	0.46	0.32
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Mercury	0.15	mg/kg dw		1.69		0.41	0.59	mg/kg dw	0.37	0.25
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Mercury	0.08	mg/kg dw		1.68		0.41	0.59	mg/kg dw	0.2	0.14
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Mercury	0.12	mg/kg dw		2.44		0.41	0.59	mg/kg dw	0.29	0.2
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Mercury	0.08	mg/kg dw		1.75		0.41	0.59	mg/kg dw	0.2	0.14
DR025	1.2	EPA SI	8/17/1998	Mercury	0.26	mg/kg dw		2.83		0.41	0.59	mg/kg dw	0.63	0.44
DR026	1.3	EPA SI	8/17/1998	Mercury	0.22	mg/kg dw		3.24		0.41	0.59	mg/kg dw	0.54	0.37
DR027	1.3	EPA SI	8/17/1998	Mercury	0.21	mg/kg dw		2.49		0.41	0.59	mg/kg dw	0.51	0.36
DR064	1.3	EPA SI	8/17/1998	Mercury	0.23	mg/kg dw		2.58		0.41	0.59	mg/kg dw	0.56	0.39
B4b	1.4	LDWRI-Benthic	8/28/2004	Mercury	0.291	mg/kg dw		2.79		0.41	0.59	mg/kg dw	0.71	0.49
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Mercury	0.31	mg/kg dw		2.04		0.41	0.59	mg/kg dw	0.76	0.53
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Mercury	0.3	mg/kg dw		2.11		0.41	0.59	mg/kg dw	0.73	0.51
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Mercury	0.25	mg/kg dw		2.33		0.41	0.59	mg/kg dw	0.61	0.42
DR025	1.2	EPA SI	8/17/1998	Methyl ethyl ketone	13.5	ug/kg dw		2.83						
B5b	1.5	LDWRI-Benthic	9/28/2004	Mirex	0.29	ug/kg dw	JN	1.39						
B5b	1.5	LDWRI-Benthic	9/28/2004	Molybdenum	1.08	mg/kg dw	J	1.39						
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Molybdenum	2	mg/kg dw		2.4						
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Molybdenum	2.2	mg/kg dw		2.02						
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Molybdenum	0.8	mg/kg dw		1.08						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Molybdenum	2.4	mg/kg dw		1.69						
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Molybdenum	1.1	mg/kg dw		1.68						
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Molybdenum	1.4	mg/kg dw		2.44						

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Molybdenum	1.4	mg/kg dw		1.75						
B4b	1.4	LDWRI-Benthic	8/28/2004	Molybdenum	1.01	mg/kg dw	J	2.79						
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Molybdenum	2.1	mg/kg dw		2.04						
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Molybdenum	0.9	mg/kg dw		2.11						
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Molybdenum	0.5	mg/kg dw		2.33						
B5b	1.5	LDWRI-Benthic	9/28/2004	Monobutyltin as ion	14	ug/kg dw		1.39						
DR025	1.2	EPA SI	8/17/1998	Monobutyltin as ion	56	ug/kg dw	J	2.83						
B4b	1.4	LDWRI-Benthic	8/28/2004	Monobutyltin as ion	48	ug/kg dw		2.79						
DR091	1.5	EPA SI	8/31/1998	Naphthalene	0.02	mg/kg dw		0.86	2.3	99	170	mg/kg OC	0.023	0.014
DR144	1.5	EPA SI	8/17/1998	Naphthalene	0.07	mg/kg dw		1.84	3.8	99	170	mg/kg OC	0.038	0.022
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Naphthalene	0.009	mg/kg dw	J	1.48	0.61	99	170	mg/kg OC	0.0062	0.0036
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Naphthalene	3	ug/kg dw	J	0.34		2100	2400	ug/kg dw	0.0014	0.0013
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Naphthalene	0.01	mg/kg dw	J	0.98	1	99	170	mg/kg OC	0.01	0.0059
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Naphthalene	0.005	mg/kg dw	J	2.04	0.25	99	170	mg/kg OC	0.0025	0.0015
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Naphthalene	0.006	mg/kg dw	J	1.18	0.51	99	170	mg/kg OC	0.0052	0.003
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Naphthalene	0.01	mg/kg dw	J	2.9	0.34	99	170	mg/kg OC	0.0034	0.002
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Naphthalene	10	ug/kg dw	J	0.47		2100	2400	ug/kg dw	0.0048	0.0042
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Naphthalene	0.004	mg/kg dw	J	1.01	0.4	99	170	mg/kg OC	0.004	0.0024
B5b	1.5	LDWRI-Benthic	9/28/2004	Naphthalene	0.01	mg/kg dw		1.39	0.72	99	170	mg/kg OC	0.0073	0.0042
DR025	1.2	EPA SI	8/17/1998	Naphthalene	0.05	mg/kg dw		2.83	1.8	99	170	mg/kg OC	0.018	0.011
B4b	1.4	LDWRI-Benthic	8/28/2004	Naphthalene	0.023	mg/kg dw		2.79	0.82	99	170	mg/kg OC	0.0083	0.0048
DR091	1.5	EPA SI	8/31/1998	Nickel	13.7	mg/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Nickel	13.6	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Nickel	21.9	mg/kg dw		1.84						
B5b	1.5	LDWRI-Benthic	9/28/2004	Nickel	14	mg/kg dw		1.39						
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Nickel	26	mg/kg dw		2.4						
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Nickel	18	mg/kg dw		2.02						
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Nickel	9	mg/kg dw		1.08						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Nickel	20	mg/kg dw		1.69						
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Nickel	15	mg/kg dw		1.68						
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Nickel	17	mg/kg dw		2.44						
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Nickel	11	mg/kg dw		1.75						
DR025	1.2	EPA SI	8/17/1998	Nickel	23.8	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Nickel	23.8	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Nickel	20.5	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Nickel	22.8	mg/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Nickel	24.8	mg/kg dw		2.79						
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Nickel	23	mg/kg dw		2.04						
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Nickel	28	mg/kg dw		2.11						
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Nickel	28	mg/kg dw		2.33						
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	N-Nitrosodiphenylamine	0.008	mg/kg dw	J	2.04	0.39	11	11	mg/kg OC	0.035	0.035
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	N-Nitrosodiphenylamine	0.0065	mg/kg dw		2.02	0.32	11	11	mg/kg OC	0.029	0.029
DR092	1.6	EPA SI	8/27/1998	OCDD	2700	ng/kg dw		0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	OCDD	2380	ng/kg dw		1.69						
DR092	1.6	EPA SI	8/27/1998	OCDF	120	ng/kg dw		0.7						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	OCDF	144	ng/kg dw		1.69						
EIT082	1.5	NOAA SiteChar	11/12/1997	PCBs (total calc'd)	31	ug/kg dw	J	0.3		130	1000	ug/kg dw	0.24	0.031
EIT083	1.5	NOAA SiteChar	9/19/1997	PCBs (total calc'd)	0.049	mg/kg dw	J	1.11	4.4	12	65	mg/kg OC	0.37	0.068
EIT084	1.6	NOAA SiteChar	9/19/1997	PCBs (total calc'd)	0.0047	mg/kg dw	J	1.64	0.29	12	65	mg/kg OC	0.024	0.0045
EST208	1.6	NOAA SiteChar	9/19/1997	PCBs (total calc'd)	0.093	mg/kg dw	J	1.88	4.9	12	65	mg/kg OC	0.41	0.075
EST209	1.6	NOAA SiteChar	10/7/1997	PCBs (total calc'd)	0.09	mg/kg dw	J	1.98	5	12	65	mg/kg OC	0.42	0.077
DR091	1.5	EPA SI	8/31/1998	PCBs (total calc'd)	0.045	mg/kg dw		0.86	5.2	12	65	mg/kg OC	0.43	0.08
DR092	1.6	EPA SI	8/27/1998	PCBs (total calc'd)	0.064	mg/kg dw		0.7	9.1	12	65	mg/kg OC	0.76	0.14
DR144	1.5	EPA SI	8/17/1998	PCBs (total calc'd)	0.308	mg/kg dw		1.84	16.7	12	65	mg/kg OC	1.4	0.26
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	PCBs (total calc'd)	0.09	mg/kg dw	J	1.48	6.1	12	65	mg/kg OC	0.51	0.094
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	PCBs (total calc'd)	0.1	mg/kg dw	J	2.04	4.9	12	65	mg/kg OC	0.41	0.075

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	PCBs (total calc'd)	0.14	mg/kg dw	J	1.18	12	12	65	mg/kg OC	1	0.18
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	PCBs (total calc'd)	0.04	mg/kg dw	J	0.71	5.6	12	65	mg/kg OC	0.47	0.086
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	PCBs (total calc'd)	0.1	mg/kg dw	J	2.9	3.4	12	65	mg/kg OC	0.28	0.052
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	PCBs (total calc'd)	30	ug/kg dw	J	0.47		130	1000	ug/kg dw	0.23	0.03
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	PCBs (total calc'd)	0.69	mg/kg dw		1.01	68	12	65	mg/kg OC	5.7	1.0
B5b	1.5	LDWRI-Benthic	9/28/2004	PCBs (total calc'd)	0.28	mg/kg dw		1.39	20	12	65	mg/kg OC	1.7	0.31
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	PCBs (total calc'd)	0.209	mg/kg dw		2.4	8.71	12	65	mg/kg OC	0.73	0.13
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	PCBs (total calc'd)	0.091	mg/kg dw		2.02	4.5	12	65	mg/kg OC	0.38	0.069
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	PCBs (total calc'd)	0.25	mg/kg dw	J	1.08	23	12	65	mg/kg OC	1.9	0.35
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	PCBs (total calc'd)	0.127	mg/kg dw		1.69	7.51	12	65	mg/kg OC	0.63	0.12
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	PCBs (total calc'd)	0.062	mg/kg dw		1.68	3.7	12	65	mg/kg OC	0.31	0.057
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	PCBs (total calc'd)	0.141	mg/kg dw	J	2.44	5.78	12	65	mg/kg OC	0.48	0.089
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	PCBs (total calc'd)	0.107	mg/kg dw		1.75	6.11	12	65	mg/kg OC	0.51	0.094
EST204	1.3	NOAA SiteChar	10/23/1997	PCBs (total calc'd)	0.12	mg/kg dw		2.15	5.6	12	65	mg/kg OC	0.47	0.086
EST206	1.4	NOAA SiteChar	9/16/1997	PCBs (total calc'd)	0.12	mg/kg dw		1.97	6.1	12	65	mg/kg OC	0.51	0.094
DR025	1.2	EPA SI	8/17/1998	PCBs (total calc'd)	0.21	mg/kg dw		2.83	7.42	12	65	mg/kg OC	0.62	0.11
DR026	1.3	EPA SI	8/17/1998	PCBs (total calc'd)	0.28	mg/kg dw		3.24	8.6	12	65	mg/kg OC	0.72	0.13
DR027	1.3	EPA SI	8/17/1998	PCBs (total calc'd)	0.29	mg/kg dw		2.49	11.6	12	65	mg/kg OC	0.97	0.18
DR064	1.3	EPA SI	8/17/1998	PCBs (total calc'd)	0.227	mg/kg dw		2.58	8.8	12	65	mg/kg OC	0.73	0.14
B4b	1.4	LDWRI-Benthic	8/28/2004	PCBs (total calc'd)	0.4	mg/kg dw		2.79	14	12	65	mg/kg OC	1.2	0.22
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	PCBs (total calc'd)	0.108	mg/kg dw		2.04	5.29	12	65	mg/kg OC	0.44	0.081
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	PCBs (total calc'd)	0.27	mg/kg dw		2.11	13	12	65	mg/kg OC	1.1	0.2
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	PCBs (total calc'd)	0.214	mg/kg dw		2.33	9.18	12	65	mg/kg OC	0.77	0.14
EIT083	1.5	NOAA SiteChar	9/19/1997	PCTs (total)	91	ug/kg dw		1.11						
EST208	1.6	NOAA SiteChar	9/19/1997	PCTs (total)	17	ug/kg dw		1.88						
EST209	1.6	NOAA SiteChar	10/7/1997	PCTs (total)	20	ug/kg dw		1.98						
B5b	1.5	LDWRI-Benthic	9/28/2004	Perylene	74	ug/kg dw		1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	Perylene	78	ug/kg dw		2.79						
DR091	1.5	EPA SI	8/31/1998	Phenanthrene	0.56	mg/kg dw		0.86	65	100	480	mg/kg OC	0.65	0.14
DR092	1.6	EPA SI	8/27/1998	Phenanthrene	0.23	mg/kg dw		0.7	33	100	480	mg/kg OC	0.33	0.069
DR144	1.5	EPA SI	8/17/1998	Phenanthrene	0.4	mg/kg dw		1.84	22	100	480	mg/kg OC	0.22	0.046
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Phenanthrene	0.35	mg/kg dw		1.48	24	100	480	mg/kg OC	0.24	0.05
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Phenanthrene	20	ug/kg dw	J	0.34		1500	5400	ug/kg dw	0.013	0.0037
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Phenanthrene	0.36	mg/kg dw		0.98	37	100	480	mg/kg OC	0.37	0.077
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Phenanthrene	0.037	mg/kg dw		2.04	1.8	100	480	mg/kg OC	0.018	0.0038
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Phenanthrene	0.048	mg/kg dw		1.18	4.1	100	480	mg/kg OC	0.041	0.0085
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Phenanthrene	0.01	mg/kg dw	J	0.71	1.4	100	480	mg/kg OC	0.014	0.0029
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Phenanthrene	0.036	mg/kg dw		2.9	1.2	100	480	mg/kg OC	0.012	0.0025
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Phenanthrene	82	ug/kg dw		0.47		1500	5400	ug/kg dw	0.055	0.015
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Phenanthrene	0.14	mg/kg dw		1.01	14	100	480	mg/kg OC	0.14	0.029
B5b	1.5	LDWRI-Benthic	9/28/2004	Phenanthrene	0.11	mg/kg dw		1.39	7.9	100	480	mg/kg OC	0.079	0.016
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Phenanthrene	0.074	mg/kg dw		2.4	3.1	100	480	mg/kg OC	0.031	0.0065
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Phenanthrene	0.2	mg/kg dw		2.02	9.9	100	480	mg/kg OC	0.099	0.021
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Phenanthrene	0.03	mg/kg dw		1.08	2.8	100	480	mg/kg OC	0.028	0.0058
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Phenanthrene	0.21	mg/kg dw		1.69	12	100	480	mg/kg OC	0.12	0.025
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Phenanthrene	0.028	mg/kg dw		1.68	1.7	100	480	mg/kg OC	0.017	0.0035
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Phenanthrene	0.073	mg/kg dw		2.44	3	100	480	mg/kg OC	0.03	0.0063
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Phenanthrene	0.18	mg/kg dw		1.75	10	100	480	mg/kg OC	0.1	0.021
DR025	1.2	EPA SI	8/17/1998	Phenanthrene	0.37	mg/kg dw		2.83	13	100	480	mg/kg OC	0.13	0.027
DR026	1.3	EPA SI	8/17/1998	Phenanthrene	0.29	mg/kg dw		3.24	9	100	480	mg/kg OC	0.09	0.019
DR027	1.3	EPA SI	8/17/1998	Phenanthrene	0.35	mg/kg dw		2.49	14	100	480	mg/kg OC	0.14	0.029
DR064	1.3	EPA SI	8/17/1998	Phenanthrene	0.38	mg/kg dw		2.58	15	100	480	mg/kg OC	0.15	0.031
B4b	1.4	LDWRI-Benthic	8/28/2004	Phenanthrene	0.16	mg/kg dw		2.79	5.7	100	480	mg/kg OC	0.057	0.012
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Phenanthrene	0.17	mg/kg dw		2.04	8.3	100	480	mg/kg OC	0.083	0.017
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Phenanthrene	0.27	mg/kg dw		2.11	13	100	480	mg/kg OC	0.13	0.027
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Phenanthrene	0.17	mg/kg dw		2.33	7.3	100	480	mg/kg OC	0.073	0.015

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
DR091	1.5	EPA SI	8/31/1998	Phenol	40	ug/kg dw		0.86		420	1200	ug/kg dw	0.095	0.033
DR092	1.6	EPA SI	8/27/1998	Phenol	520	ug/kg dw		0.7		420	1200	ug/kg dw	1.2	0.43
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Phenol	20	ug/kg dw		1.48		420	1200	ug/kg dw	0.048	0.017
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Phenol	60	ug/kg dw		2.04		420	1200	ug/kg dw	0.14	0.05
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Phenol	59	ug/kg dw		1.18		420	1200	ug/kg dw	0.14	0.049
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Phenol	31	ug/kg dw		0.71		420	1200	ug/kg dw	0.074	0.026
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Phenol	10	ug/kg dw	J	0.47		420	1200	ug/kg dw	0.024	0.0083
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Phenol	280	ug/kg dw		2.44		420	1200	ug/kg dw	0.67	0.23
DR025	1.2	EPA SI	8/17/1998	Phenol	90	ug/kg dw		2.83		420	1200	ug/kg dw	0.21	0.075
DR026	1.3	EPA SI	8/17/1998	Phenol	120	ug/kg dw		3.24		420	1200	ug/kg dw	0.29	0.1
DR027	1.3	EPA SI	8/17/1998	Phenol	270	ug/kg dw		2.49		420	1200	ug/kg dw	0.64	0.23
DR064	1.3	EPA SI	8/17/1998	Phenol	80	ug/kg dw		2.58		420	1200	ug/kg dw	0.19	0.067
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Phenol	180	ug/kg dw		2.04		420	1200	ug/kg dw	0.43	0.15
DR091	1.5	EPA SI	8/31/1998	Pyrene	0.82	mg/kg dw		0.86	95	1000	1400	mg/kg OC	0.095	0.068
DR092	1.6	EPA SI	8/27/1998	Pyrene	0.36	mg/kg dw		0.7	51	1000	1400	mg/kg OC	0.051	0.036
DR144	1.5	EPA SI	8/17/1998	Pyrene	0.97	mg/kg dw		1.84	53	1000	1400	mg/kg OC	0.053	0.038
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Pyrene	1.5	mg/kg dw		1.48	100	1000	1400	mg/kg OC	0.1	0.071
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Pyrene	42	ug/kg dw		0.34		2600	3300	ug/kg dw	0.016	0.013
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Pyrene	0.7	mg/kg dw		0.98	71	1000	1400	mg/kg OC	0.071	0.051
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Pyrene	0.21	mg/kg dw		2.04	10	1000	1400	mg/kg OC	0.01	0.0071
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Pyrene	0.15	mg/kg dw		1.18	13	1000	1400	mg/kg OC	0.013	0.0093
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Pyrene	0.034	mg/kg dw		0.71	4.8	1000	1400	mg/kg OC	0.0048	0.0034
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Pyrene	0.14	mg/kg dw		2.9	4.8	1000	1400	mg/kg OC	0.0048	0.0034
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Pyrene	160	ug/kg dw		0.47		2600	3300	ug/kg dw	0.062	0.048
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Pyrene	0.91	mg/kg dw		1.01	90	1000	1400	mg/kg OC	0.09	0.064
B5b	1.5	LDWRI-Benthic	9/28/2004	Pyrene	0.66	mg/kg dw		1.39	47	1000	1400	mg/kg OC	0.047	0.034
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Pyrene	0.15	mg/kg dw		2.4	6.3	1000	1400	mg/kg OC	0.0063	0.0045
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Pyrene	0.83	mg/kg dw		2.02	41	1000	1400	mg/kg OC	0.041	0.029
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Pyrene	0.099	mg/kg dw		1.08	9.2	1000	1400	mg/kg OC	0.0092	0.0066
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Pyrene	0.62	mg/kg dw		1.69	37	1000	1400	mg/kg OC	0.037	0.026
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Pyrene	0.13	mg/kg dw		1.68	7.7	1000	1400	mg/kg OC	0.0077	0.0055
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Pyrene	0.18	mg/kg dw		2.44	7.4	1000	1400	mg/kg OC	0.0074	0.0053
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Pyrene	0.42	mg/kg dw		1.75	24	1000	1400	mg/kg OC	0.024	0.017
DR025	1.2	EPA SI	8/17/1998	Pyrene	0.91	mg/kg dw		2.83	32	1000	1400	mg/kg OC	0.032	0.023
DR026	1.3	EPA SI	8/17/1998	Pyrene	0.75	mg/kg dw		3.24	23	1000	1400	mg/kg OC	0.023	0.016
DR027	1.3	EPA SI	8/17/1998	Pyrene	0.64	mg/kg dw		2.49	26	1000	1400	mg/kg OC	0.026	0.019
DR064	1.3	EPA SI	8/17/1998	Pyrene	0.69	mg/kg dw		2.58	27	1000	1400	mg/kg OC	0.027	0.019
B4b	1.4	LDWRI-Benthic	8/28/2004	Pyrene	0.5	mg/kg dw		2.79	18	1000	1400	mg/kg OC	0.018	0.013
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Pyrene	0.48	mg/kg dw		2.04	24	1000	1400	mg/kg OC	0.024	0.017
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Pyrene	0.66	mg/kg dw		2.11	31	1000	1400	mg/kg OC	0.031	0.022
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Pyrene	0.42	mg/kg dw		2.33	18	1000	1400	mg/kg OC	0.018	0.013
DR091	1.5	EPA SI	8/31/1998	Selenium	8	mg/kg dw	J	0.86						
DR092	1.6	EPA SI	8/27/1998	Selenium	7	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Selenium	8	mg/kg dw		1.84						
B5b	1.5	LDWRI-Benthic	9/28/2004	Selenium	0.8	mg/kg dw		1.39						
DR025	1.2	EPA SI	8/17/1998	Selenium	7	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Selenium	7	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Selenium	7	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Selenium	10	mg/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Selenium	0.8	mg/kg dw	J	2.79						
DR091	1.5	EPA SI	8/31/1998	Silver	0.17	mg/kg dw		0.86		6.1	6.1	mg/kg dw	0.028	0.028
DR092	1.6	EPA SI	8/27/1998	Silver	0.14	mg/kg dw		0.7		6.1	6.1	mg/kg dw	0.023	0.023
DR144	1.5	EPA SI	8/17/1998	Silver	0.58	mg/kg dw		1.84		6.1	6.1	mg/kg dw	0.095	0.095
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Silver	0.04	mg/kg dw		1.48		6.1	6.1	mg/kg dw	0.0066	0.0066
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Silver	0.02	mg/kg dw		0.34		6.1	6.1	mg/kg dw	0.0033	0.0033
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Silver	0.07	mg/kg dw		0.98		6.1	6.1	mg/kg dw	0.011	0.011

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Silver	0.13	mg/kg dw		2.04		6.1	6.1	mg/kg dw	0.021	0.021
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Silver	0.15	mg/kg dw		1.18		6.1	6.1	mg/kg dw	0.025	0.025
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Silver	0.05	mg/kg dw		0.71		6.1	6.1	mg/kg dw	0.0082	0.0082
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Silver	0.27	mg/kg dw		2.9		6.1	6.1	mg/kg dw	0.044	0.044
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Silver	0.08	mg/kg dw		0.47		6.1	6.1	mg/kg dw	0.013	0.013
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Silver	0.12	mg/kg dw		1.01		6.1	6.1	mg/kg dw	0.02	0.02
B5b	1.5	LDWRI-Benthic	9/28/2004	Silver	0.236	mg/kg dw	J	1.39		6.1	6.1	mg/kg dw	0.039	0.039
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Silver	0.7	mg/kg dw		2.4		6.1	6.1	mg/kg dw	0.11	0.11
DR025	1.2	EPA SI	8/17/1998	Silver	0.45	mg/kg dw		2.83		6.1	6.1	mg/kg dw	0.074	0.074
DR026	1.3	EPA SI	8/17/1998	Silver	0.51	mg/kg dw		3.24		6.1	6.1	mg/kg dw	0.084	0.084
DR027	1.3	EPA SI	8/17/1998	Silver	0.43	mg/kg dw		2.49		6.1	6.1	mg/kg dw	0.07	0.07
DR064	1.3	EPA SI	8/17/1998	Silver	0.42	mg/kg dw		2.58		6.1	6.1	mg/kg dw	0.069	0.069
B4b	1.4	LDWRI-Benthic	8/28/2004	Silver	0.497	mg/kg dw	J	2.79		6.1	6.1	mg/kg dw	0.081	0.081
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Silver	0.6	mg/kg dw		2.04		6.1	6.1	mg/kg dw	0.098	0.098
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Silver	0.6	mg/kg dw	J	2.11		6.1	6.1	mg/kg dw	0.098	0.098
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Silver	0.5	mg/kg dw	J	2.33		6.1	6.1	mg/kg dw	0.082	0.082
B5b	1.5	LDWRI-Benthic	9/28/2004	Tetrabutyltin as ion	0.74	ug/kg dw	J	1.39						
B4b	1.4	LDWRI-Benthic	8/28/2004	Tetrabutyltin as ion	2	ug/kg dw	J	2.79						
DR091	1.5	EPA SI	8/31/1998	Thallium	0.08	mg/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Thallium	0.08	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Thallium	0.11	mg/kg dw		1.84						
B5b	1.5	LDWRI-Benthic	9/28/2004	Thallium	0.092	mg/kg dw		1.39						
DR025	1.2	EPA SI	8/17/1998	Thallium	0.13	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Thallium	0.14	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Thallium	0.1	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Thallium	0.12	mg/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Thallium	0.151	mg/kg dw		2.79						
DR091	1.5	EPA SI	8/31/1998	Tin	7	mg/kg dw		0.86						
DR144	1.5	EPA SI	8/17/1998	Tin	6	mg/kg dw		1.84						
DR025	1.2	EPA SI	8/17/1998	Tin	5	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Tin	5	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Tin	5	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Tin	5	mg/kg dw		2.58						
DR091	1.5	EPA SI	8/31/1998	Total HPAH (calc'd)	3.5	mg/kg dw		0.86	410	960	5300	mg/kg OC	0.43	0.077
DR092	1.6	EPA SI	8/27/1998	Total HPAH (calc'd)	1.56	mg/kg dw		0.7	220	960	5300	mg/kg OC	0.23	0.042
DR144	1.5	EPA SI	8/17/1998	Total HPAH (calc'd)	3.78	mg/kg dw		1.84	205	960	5300	mg/kg OC	0.21	0.039
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	10	mg/kg dw		1.48	676	960	5300	mg/kg OC	0.7	0.13
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	228	ug/kg dw	J	0.34		12000	17000	ug/kg dw	0.019	0.013
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	2.44	mg/kg dw	J	0.98	250	960	5300	mg/kg OC	0.26	0.047
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	1.22	mg/kg dw	J	2.04	59.8	960	5300	mg/kg OC	0.062	0.011
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	0.91	mg/kg dw	J	1.18	77	960	5300	mg/kg OC	0.08	0.015
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	0.199	mg/kg dw	J	0.71	28	960	5300	mg/kg OC	0.029	0.0053
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	0.56	mg/kg dw	J	2.9	19	960	5300	mg/kg OC	0.02	0.0036
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	920	ug/kg dw	J	0.47		12000	17000	ug/kg dw	0.077	0.054
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Total HPAH (calc'd)	4.66	mg/kg dw		1.01	461	960	5300	mg/kg OC	0.48	0.087
B5b	1.5	LDWRI-Benthic	9/28/2004	Total HPAH (calc'd)	3.44	mg/kg dw		1.39	247	960	5300	mg/kg OC	0.26	0.047
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Total HPAH (calc'd)	1.17	mg/kg dw		2.4	48.8	960	5300	mg/kg OC	0.051	0.0092
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Total HPAH (calc'd)	3.1	mg/kg dw	J	2.02	153	960	5300	mg/kg OC	0.16	0.029
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Total HPAH (calc'd)	0.5	mg/kg dw		1.08	46	960	5300	mg/kg OC	0.048	0.0087
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Total HPAH (calc'd)	3.6	mg/kg dw		1.69	213	960	5300	mg/kg OC	0.22	0.04
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Total HPAH (calc'd)	0.58	mg/kg dw		1.68	35	960	5300	mg/kg OC	0.036	0.0066
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Total HPAH (calc'd)	1.25	mg/kg dw		2.44	51.2	960	5300	mg/kg OC	0.053	0.0097
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Total HPAH (calc'd)	3.01	mg/kg dw		1.75	172	960	5300	mg/kg OC	0.18	0.032
DR025	1.2	EPA SI	8/17/1998	Total HPAH (calc'd)	4.9	mg/kg dw		2.83	170	960	5300	mg/kg OC	0.18	0.032
DR026	1.3	EPA SI	8/17/1998	Total HPAH (calc'd)	3.86	mg/kg dw		3.24	119	960	5300	mg/kg OC	0.12	0.022
DR027	1.3	EPA SI	8/17/1998	Total HPAH (calc'd)	3.84	mg/kg dw		2.49	154	960	5300	mg/kg OC	0.16	0.029

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
DR064	1.3	EPA SI	8/17/1998	Total HPAH (calc'd)	3.8	mg/kg dw		2.58	147	960	5300	mg/kg OC	0.15	0.028
B4b	1.4	LDWRI-Benthic	8/28/2004	Total HPAH (calc'd)	2.78	mg/kg dw		2.79	99.6	960	5300	mg/kg OC	0.1	0.019
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Total HPAH (calc'd)	2.54	mg/kg dw	J	2.04	125	960	5300	mg/kg OC	0.13	0.024
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Total HPAH (calc'd)	3.95	mg/kg dw		2.11	187	960	5300	mg/kg OC	0.19	0.035
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Total HPAH (calc'd)	2.76	mg/kg dw		2.33	118	960	5300	mg/kg OC	0.12	0.022
DR092	1.6	EPA SI	8/27/1998	Total HpCDD	730	ng/kg dw		0.7						
DR092	1.6	EPA SI	8/27/1998	Total HpCDF	200	ng/kg dw		0.7						
DR092	1.6	EPA SI	8/27/1998	Total HxCDD	68	ng/kg dw		0.7						
DR092	1.6	EPA SI	8/27/1998	Total HxCDF	85	ng/kg dw		0.7						
DR091	1.5	EPA SI	8/31/1998	Total LPAH (calc'd)	0.92	mg/kg dw		0.86	110	370	780	mg/kg OC	0.3	0.14
DR092	1.6	EPA SI	8/27/1998	Total LPAH (calc'd)	0.38	mg/kg dw		0.7	54	370	780	mg/kg OC	0.15	0.069
DR144	1.5	EPA SI	8/17/1998	Total LPAH (calc'd)	0.77	mg/kg dw		1.84	42	370	780	mg/kg OC	0.11	0.054
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	0.79	mg/kg dw	J	1.48	53	370	780	mg/kg OC	0.14	0.068
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	46	ug/kg dw	J	0.34		5200	13000	ug/kg dw	0.0088	0.0035
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	0.68	mg/kg dw	J	0.98	69	370	780	mg/kg OC	0.19	0.088
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	0.33	mg/kg dw	J	2.04	16	370	780	mg/kg OC	0.043	0.021
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	0.166	mg/kg dw	J	1.18	14.1	370	780	mg/kg OC	0.038	0.018
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	0.021	mg/kg dw	J	0.71	3	370	780	mg/kg OC	0.0081	0.0038
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	0.095	mg/kg dw	J	2.9	3.3	370	780	mg/kg OC	0.0089	0.0042
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	226	ug/kg dw	J	0.47		5200	13000	ug/kg dw	0.043	0.017
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Total LPAH (calc'd)	0.54	mg/kg dw	J	1.01	53	370	780	mg/kg OC	0.14	0.068
B5b	1.5	LDWRI-Benthic	9/28/2004	Total LPAH (calc'd)	0.28	mg/kg dw		1.39	20	370	780	mg/kg OC	0.054	0.026
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Total LPAH (calc'd)	0.11	mg/kg dw		2.4	4.58	370	780	mg/kg OC	0.012	0.0059
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Total LPAH (calc'd)	0.32	mg/kg dw		2.02	16	370	780	mg/kg OC	0.043	0.021
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Total LPAH (calc'd)	0.03	mg/kg dw		1.08	2.8	370	780	mg/kg OC	0.0076	0.0036
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Total LPAH (calc'd)	0.33	mg/kg dw		1.69	20	370	780	mg/kg OC	0.054	0.026
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Total LPAH (calc'd)	0.028	mg/kg dw		1.68	1.7	370	780	mg/kg OC	0.0046	0.0022
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Total LPAH (calc'd)	0.118	mg/kg dw		2.44	4.84	370	780	mg/kg OC	0.013	0.0062
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Total LPAH (calc'd)	0.32	mg/kg dw		1.75	18	370	780	mg/kg OC	0.049	0.023
DR025	1.2	EPA SI	8/17/1998	Total LPAH (calc'd)	0.71	mg/kg dw		2.83	25	370	780	mg/kg OC	0.068	0.032
DR026	1.3	EPA SI	8/17/1998	Total LPAH (calc'd)	0.47	mg/kg dw		3.24	15	370	780	mg/kg OC	0.041	0.019
DR027	1.3	EPA SI	8/17/1998	Total LPAH (calc'd)	0.59	mg/kg dw		2.49	24	370	780	mg/kg OC	0.065	0.031
DR064	1.3	EPA SI	8/17/1998	Total LPAH (calc'd)	0.59	mg/kg dw		2.58	23	370	780	mg/kg OC	0.062	0.029
B4b	1.4	LDWRI-Benthic	8/28/2004	Total LPAH (calc'd)	0.33	mg/kg dw		2.79	12	370	780	mg/kg OC	0.032	0.015
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Total LPAH (calc'd)	0.27	mg/kg dw		2.04	13	370	780	mg/kg OC	0.035	0.017
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Total LPAH (calc'd)	0.37	mg/kg dw		2.11	18	370	780	mg/kg OC	0.049	0.023
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Total LPAH (calc'd)	0.26	mg/kg dw		2.33	11	370	780	mg/kg OC	0.03	0.014
DR091	1.5	EPA SI	8/31/1998	Total PAH (calc'd)	4500	ug/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Total PAH (calc'd)	1940	ug/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Total PAH (calc'd)	4550	ug/kg dw		1.84						
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	10800	ug/kg dw	J	1.48						
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	274	ug/kg dw	J	0.34						
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	3120	ug/kg dw	J	0.98						
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	1550	ug/kg dw	J	2.04						
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	1080	ug/kg dw	J	1.18						
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	220	ug/kg dw	J	0.71						
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	660	ug/kg dw	J	2.9						
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	1150	ug/kg dw	J	0.47						
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Total PAH (calc'd)	5190	ug/kg dw	J	1.01						
B5b	1.5	LDWRI-Benthic	9/28/2004	Total PAH (calc'd)	3720	ug/kg dw		1.39						
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Total PAH (calc'd)	1280	ug/kg dw		2.4						
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Total PAH (calc'd)	3420	ug/kg dw	J	2.02						
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Total PAH (calc'd)	530	ug/kg dw		1.08						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Total PAH (calc'd)	3930	ug/kg dw		1.69						
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Total PAH (calc'd)	610	ug/kg dw		1.68						
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Total PAH (calc'd)	1370	ug/kg dw		2.44						

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Total PAH (calc'd)	3330	ug/kg dw		1.75						
DR025	1.2	EPA SI	8/17/1998	Total PAH (calc'd)	5600	ug/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Total PAH (calc'd)	4330	ug/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Total PAH (calc'd)	4430	ug/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Total PAH (calc'd)	4390	ug/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Total PAH (calc'd)	3100	ug/kg dw		2.79						
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Total PAH (calc'd)	2810	ug/kg dw	J	2.04						
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Total PAH (calc'd)	4320	ug/kg dw		2.11						
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Total PAH (calc'd)	3020	ug/kg dw		2.33						
DR092	1.6	EPA SI	8/27/1998	Total PeCDF	28	ng/kg dw		0.7						
DR092	1.6	EPA SI	8/27/1998	Total TCDD	2.1	ng/kg dw		0.7						
DR092	1.6	EPA SI	8/27/1998	Total TCDF	25	ng/kg dw		0.7						
DR092	1.6	EPA SI	8/27/1998	Tributyltin as ion	25	ug/kg dw	J	0.7						
B5b	1.5	LDWRI-Benthic	9/28/2004	Tributyltin as ion	30	ug/kg dw		1.39						
DR025	1.2	EPA SI	8/17/1998	Tributyltin as ion	130	ug/kg dw		2.83						
B4b	1.4	LDWRI-Benthic	8/28/2004	Tributyltin as ion	96	ug/kg dw		2.79						
DR091	1.5	EPA SI	8/31/1998	Vanadium	44	mg/kg dw		0.86						
DR092	1.6	EPA SI	8/27/1998	Vanadium	43	mg/kg dw		0.7						
DR144	1.5	EPA SI	8/17/1998	Vanadium	51	mg/kg dw		1.84						
B5b	1.5	LDWRI-Benthic	9/28/2004	Vanadium	43.3	mg/kg dw		1.39						
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Vanadium	76.3	mg/kg dw		2.4						
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Vanadium	58.7	mg/kg dw		2.02						
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Vanadium	40.6	mg/kg dw		1.08						
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Vanadium	63.9	mg/kg dw		1.69						
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Vanadium	48.2	mg/kg dw		1.68						
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Vanadium	57	mg/kg dw		2.44						
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Vanadium	38.1	mg/kg dw		1.75						
DR025	1.2	EPA SI	8/17/1998	Vanadium	57	mg/kg dw		2.83						
DR026	1.3	EPA SI	8/17/1998	Vanadium	61	mg/kg dw		3.24						
DR027	1.3	EPA SI	8/17/1998	Vanadium	54	mg/kg dw		2.49						
DR064	1.3	EPA SI	8/17/1998	Vanadium	57	mg/kg dw		2.58						
B4b	1.4	LDWRI-Benthic	8/28/2004	Vanadium	72.5	mg/kg dw		2.79						
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Vanadium	74.2	mg/kg dw		2.04						
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Vanadium	63.7	mg/kg dw		2.11						
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Vanadium	61.9	mg/kg dw		2.33						
DR091	1.5	EPA SI	8/31/1998	Zinc	81	mg/kg dw		0.86		410	960	mg/kg dw	0.2	0.084
DR092	1.6	EPA SI	8/27/1998	Zinc	54	mg/kg dw		0.7		410	960	mg/kg dw	0.13	0.056
DR144	1.5	EPA SI	8/17/1998	Zinc	181	mg/kg dw		1.84		410	960	mg/kg dw	0.44	0.19
JHGSA-SD1-02-0010	1.6	JamesHardieOutfall	7/3/2000	Zinc	64.5	mg/kg dw		1.48		410	960	mg/kg dw	0.16	0.067
JHGSA-SD1-05-0010	1.5	JamesHardieOutfall	7/3/2000	Zinc	19.2	mg/kg dw		0.34		410	960	mg/kg dw	0.047	0.02
JHGSA-SD1-06-0010	1.5	JamesHardieOutfall	7/3/2000	Zinc	25.6	mg/kg dw		0.98		410	960	mg/kg dw	0.062	0.027
JHGSA-SD1-32-0010	1.6	JamesHardieOutfall	7/3/2000	Zinc	1500	mg/kg dw		2.04		410	960	mg/kg dw	3.7	1.6
JHGSA-SD1-COMP10-00	1.5	JamesHardieOutfall	7/3/2000	Zinc	54	mg/kg dw		1.18		410	960	mg/kg dw	0.13	0.056
JHGSA-SD1-COMP16-00	1.5	JamesHardieOutfall	7/3/2000	Zinc	47.1	mg/kg dw		0.71		410	960	mg/kg dw	0.11	0.049
JHGSA-SD1-COMP22-00	1.5	JamesHardieOutfall	7/3/2000	Zinc	62.1	mg/kg dw		2.9		410	960	mg/kg dw	0.15	0.065
JHGSA-SD1-COMP27-00	1.7	JamesHardieOutfall	7/3/2000	Zinc	90.9	mg/kg dw	J	0.47		410	960	mg/kg dw	0.22	0.095
JHGSA-SD1-COMP32-00	1.7	JamesHardieOutfall	7/3/2000	Zinc	213	mg/kg dw		1.01		410	960	mg/kg dw	0.52	0.22
B5b	1.5	LDWRI-Benthic	9/28/2004	Zinc	93.9	mg/kg dw		1.39		410	960	mg/kg dw	0.23	0.098
LDW-SS52	1.4	LDWRI-SurfaceSedimentRound1	1/25/2005	Zinc	167	mg/kg dw		2.4		410	960	mg/kg dw	0.41	0.17
LDW-SS54	1.4	LDWRI-SurfaceSedimentRound1	1/24/2005	Zinc	112	mg/kg dw		2.02		410	960	mg/kg dw	0.27	0.12
LDW-SS60	1.6	LDWRI-SurfaceSedimentRound1	1/19/2005	Zinc	38	mg/kg dw		1.08		410	960	mg/kg dw	0.093	0.04
LDW-SS64	1.6	LDWRI-SurfaceSedimentRound1	1/24/2005	Zinc	195	mg/kg dw		1.69		410	960	mg/kg dw	0.48	0.2
LDW-SS61	1.6	LDWRI-SurfaceSedimentRound2	3/10/2005	Zinc	70.4	mg/kg dw		1.68		410	960	mg/kg dw	0.17	0.073
LDW-SS65	1.7	LDWRI-SurfaceSedimentRound2	3/8/2005	Zinc	101	mg/kg dw		2.44		410	960	mg/kg dw	0.25	0.11
LDW-SSB5b	1.5	LDWRI-SurfaceSedimentRound2	3/14/2005	Zinc	63.3	mg/kg dw	J	1.75		410	960	mg/kg dw	0.15	0.066
DR025	1.2	EPA SI	8/17/1998	Zinc	138	mg/kg dw		2.83		410	960	mg/kg dw	0.34	0.14

Table A-1
Contaminants Detected in Surface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sampling Event	Sample Collection Date	Contaminant	Concentration Value	Concentration Units	TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
DR026	1.3	EPA SI	8/17/1998	Zinc	142	mg/kg dw	3.24		410	960	mg/kg dw	0.35	0.15
DR027	1.3	EPA SI	8/17/1998	Zinc	127	mg/kg dw	2.49		410	960	mg/kg dw	0.31	0.13
DR064	1.3	EPA SI	8/17/1998	Zinc	129	mg/kg dw	2.58		410	960	mg/kg dw	0.31	0.13
B4b	1.4	LDWRI-Benthic	8/28/2004	Zinc	155	mg/kg dw	2.79		410	960	mg/kg dw	0.38	0.16
LDW-SS42	1.2	LDWRI-SurfaceSedimentRound1	1/24/2005	Zinc	157	mg/kg dw	2.04		410	960	mg/kg dw	0.38	0.16
LDW-SS325	1.3	LDWRI-SurfaceSedimentRound3	10/4/2006	Zinc	170	mg/kg dw	2.11		410	960	mg/kg dw	0.41	0.18
LDW-SS326	1.4	LDWRI-SurfaceSedimentRound3	10/4/2006	Zinc	138	mg/kg dw	2.33		410	960	mg/kg dw	0.34	0.14

Key:
DW - Dry weight
CSL - Cleanup Screening Level
OC - Organic carbon
TOC - Total organic carbon
SQS - Sediment Quality Standard

Notes:
1. SQS and CSL values are substituted with AET values for dry weight comparison where organic compounds are not OC-normalized (when TOC % DW is outside of the 0.5-4.0% range).
2. Exceedance factors are the ratio of the detected concentration to the CSL or SQS (or to AET values where applicable); chemicals with one or more exceedance factors greater than 1 are highlighted.

Source:
Lower Duwamish Waterway Group, 2007. Online Lower Duwamish Waterway Group Draft Remedial Investigation Report (November 2007) Database. http://www.ldwg.org.

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	1,2,4-Trichlorobenzene	0.0059	mg/kg dw		2.24	0.26	0.81	1.8	mg/kg OC	0.32	0.14
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	1,2-Dichlorobenzene	0.0042	mg/kg dw	J	2.24	0.19	2.3	2.3	mg/kg OC	0.083	0.083
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	1,4-Dichlorobenzene	0.0035	mg/kg dw	J	2.52	0.14	3.1	9	mg/kg OC	0.045	0.016
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	1,4-Dichlorobenzene	0.0037	mg/kg dw	J	2.05	0.18	3.1	9	mg/kg OC	0.058	0.02
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	1,4-Dichlorobenzene	0.004	mg/kg dw	J	1.46	0.27	3.1	9	mg/kg OC	0.087	0.03
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	1,4-Dichlorobenzene	0.0042	mg/kg dw	J	2.24	0.19	3.1	9	mg/kg OC	0.061	0.021
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	1-Methylnaphthalene	70	ug/kg dw		1.78						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	1-Methylnaphthalene	150	ug/kg dw		2.29						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	1-Methylnaphthalene	170	ug/kg dw		1.3						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	2,4-Dimethylphenol	9.9	ug/kg dw	J	1.3		29	29	ug/kg dw	0.34	0.34
C	1.7	0 to 3	Hardie Gypsum-2	1999	2-Methylnaphthalene	0.16	mg/kg dw		1.9	8.4	38	64	mg/kg OC	0.22	0.13
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	2-Methylnaphthalene	0.089	mg/kg dw		1.78	5	38	64	mg/kg OC	0.13	0.078
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	2-Methylnaphthalene	0.12	mg/kg dw		1.3	9.2	38	64	mg/kg OC	0.24	0.14
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	2-Methylphenol	6.2	ug/kg dw		2.17		63	63	ug/kg dw	0.098	0.098
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	2-Methylphenol	6.1	ug/kg dw		2.05		63	63	ug/kg dw	0.097	0.097
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	2-Methylphenol	7.1	ug/kg dw		2.12		63	63	ug/kg dw	0.11	0.11
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	2-Methylphenol	9.3	ug/kg dw		1.6		63	63	ug/kg dw	0.15	0.15
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	2-Methylphenol	8.6	ug/kg dw	J	1.78		63	63	ug/kg dw	0.14	0.14
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	2-Methylphenol	10	ug/kg dw		2.14		63	63	ug/kg dw	0.16	0.16
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	2-Methylphenol	6.1	ug/kg dw	J	2.29		63	63	ug/kg dw	0.097	0.097
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	2-Methylphenol	8.7	ug/kg dw	J	1.3		63	63	ug/kg dw	0.14	0.14
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	2-Methylphenol	3.6	ug/kg dw	J	2.24		63	63	ug/kg dw	0.057	0.057
2	3.7	0 to 2	PSDDA98	1998	4,4'-DDD	1.1	ug/kg dw	J	2.1						
3	3.9	0 to 2	PSDDA98	1998	4,4'-DDD	1.4	ug/kg dw	J	2.2						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	4,4'-DDE	3.9	ug/kg dw		1.8						
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	4,4'-DDE	1.6	ug/kg dw		0.7						
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Acenaphthene	0.032	mg/kg dw		2.2	1.5	16	57	mg/kg OC	0.094	0.026
B	1.6	0 to 3	Hardie Gypsum-2	1999	Acenaphthene	0.27	mg/kg dw		1.9	14	16	57	mg/kg OC	0.88	0.25
C	1.7	0 to 3	Hardie Gypsum-2	1999	Acenaphthene	0.23	mg/kg dw		1.9	12	16	57	mg/kg OC	0.75	0.21
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Acenaphthene	0.048	mg/kg dw	J	1.6	3	16	57	mg/kg OC	0.19	0.053
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Acenaphthene	0.04	mg/kg dw	J	1.76	2.3	16	57	mg/kg OC	0.14	0.04
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Acenaphthene	0.57	mg/kg dw		1.39	41	16	57	mg/kg OC	2.6	0.72
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Acenaphthene	0.15	mg/kg dw		1.78	8.4	16	57	mg/kg OC	0.53	0.15
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Acenaphthene	0.34	mg/kg dw		2.14	16	16	57	mg/kg OC	1	0.28
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Acenaphthene	1.5	mg/kg dw		2.29	66	16	57	mg/kg OC	4.1	1.2
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Acenaphthene	2.1	mg/kg dw		1.3	160	16	57	mg/kg OC	10	2.8
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Acenaphthylene	0.033	mg/kg dw	J	2.05	1.6	66	66	mg/kg OC	0.024	0.024
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Acenaphthylene	0.041	mg/kg dw	J	1.78	2.3	66	66	mg/kg OC	0.035	0.035
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Acenaphthylene	0.095	mg/kg dw		2.14	4.4	66	66	mg/kg OC	0.067	0.067
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Acenaphthylene	0.076	mg/kg dw		2.29	3.3	66	66	mg/kg OC	0.05	0.05
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Acenaphthylene	0.13	mg/kg dw		1.3	10	66	66	mg/kg OC	0.15	0.15
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Anthracene	0.044	mg/kg dw		1.8	2.4	220	1200	mg/kg OC	0.011	0.002
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Anthracene	0.073	mg/kg dw		2.2	3.3	220	1200	mg/kg OC	0.015	0.0027
1	1.6	0 to 4	Hardie Gypsum-1	1998	Anthracene	0.029	mg/kg dw		1.3	2.2	220	1200	mg/kg OC	0.01	0.0018
2	1.6	0 to 4	Hardie Gypsum-1	1998	Anthracene	0.041	mg/kg dw		2.3	1.8	220	1200	mg/kg OC	0.0082	0.0015
3	1.7	0 to 4	Hardie Gypsum-1	1998	Anthracene	0.032	mg/kg dw		2.1	1.5	220	1200	mg/kg OC	0.0068	0.0013
B	1.6	0 to 3	Hardie Gypsum-2	1999	Anthracene	0.16	mg/kg dw		1.9	8.4	220	1200	mg/kg OC	0.038	0.007
C	1.7	0 to 3	Hardie Gypsum-2	1999	Anthracene	0.2	mg/kg dw		1.9	11	220	1200	mg/kg OC	0.05	0.0092
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Anthracene	0.058	mg/kg dw		1.9	3.1	220	1200	mg/kg OC	0.014	0.0026
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Anthracene	0.071	mg/kg dw		2.52	2.8	220	1200	mg/kg OC	0.013	0.0023
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Anthracene	0.048	mg/kg dw	J	2.18	2.2	220	1200	mg/kg OC	0.01	0.0018
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Anthracene	0.086	mg/kg dw		2.17	4	220	1200	mg/kg OC	0.018	0.0033
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Anthracene	0.14	mg/kg dw		2.05	6.8	220	1200	mg/kg OC	0.031	0.0057
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Anthracene	0.066	mg/kg dw		2.12	3.1	220	1200	mg/kg OC	0.014	0.0026
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Anthracene	0.087	mg/kg dw		1.6	5.4	220	1200	mg/kg OC	0.025	0.0045

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Anthracene	0.12	mg/kg dw		1.76	6.8	220	1200	mg/kg OC	0.031	0.0057
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Anthracene	0.17	mg/kg dw		1.39	12	220	1200	mg/kg OC	0.055	0.01
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Anthracene	0.48	mg/kg dw		1.78	27	220	1200	mg/kg OC	0.12	0.023
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Anthracene	1.6	mg/kg dw		2.14	75	220	1200	mg/kg OC	0.34	0.063
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Anthracene	1.1	mg/kg dw		2.29	48	220	1200	mg/kg OC	0.22	0.04
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Anthracene	8.8	mg/kg dw		1.3	680	220	1200	mg/kg OC	3.1	0.57
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Anthracene	0.053	mg/kg dw	J	1.46	3.6	220	1200	mg/kg OC	0.016	0.003
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Anthracene	0.068	mg/kg dw		2.24	3	220	1200	mg/kg OC	0.014	0.0025
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Anthracene	0.034	mg/kg dw		2.12	1.6	220	1200	mg/kg OC	0.0073	0.0013
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Antimony	5.4	mg/kg dw		1.8						
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Antimony	20	mg/kg dw		2.2						
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Antimony	1.7	mg/kg dw		0.7						
c-4	1.6	4 to 12	Lone Star-Hardie Gypsum	1995	Antimony	0.56	mg/kg dw		0.23						
2	1.6	0 to 4	Hardie Gypsum-1	1998	Antimony	2.5	mg/kg dw		2.3						
3	1.7	0 to 4	Hardie Gypsum-1	1998	Antimony	1.2	mg/kg dw		2.1						
A	1.6	0 to 3	Hardie Gypsum-2	1999	Antimony	0.9	mg/kg dw		2.1						
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Antimony	0.8	mg/kg dw		1.9						
3	3.9	0 to 2	PSDDA98	1998	Antimony	8	mg/kg dw		2.2						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Arsenic	16	mg/kg dw		1.8		57	93	mg/kg dw	0.28	0.17
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Arsenic	49	mg/kg dw		2.2		57	93	mg/kg dw	0.86	0.53
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Arsenic	5.7	mg/kg dw		0.7		57	93	mg/kg dw	0.1	0.061
c-4	1.6	4 to 12	Lone Star-Hardie Gypsum	1995	Arsenic	2.2	mg/kg dw		0.23		57	93	mg/kg dw	0.039	0.024
1	1.6	0 to 4	Hardie Gypsum-1	1998	Arsenic	6.9	mg/kg dw		1.3		57	93	mg/kg dw	0.12	0.074
2	1.6	0 to 4	Hardie Gypsum-1	1998	Arsenic	20	mg/kg dw		2.3		57	93	mg/kg dw	0.35	0.22
3	1.7	0 to 4	Hardie Gypsum-1	1998	Arsenic	13	mg/kg dw		2.1		57	93	mg/kg dw	0.23	0.14
A	1.6	0 to 3	Hardie Gypsum-2	1999	Arsenic	17	mg/kg dw		2.1		57	93	mg/kg dw	0.3	0.18
B	1.6	0 to 3	Hardie Gypsum-2	1999	Arsenic	12	mg/kg dw		1.9		57	93	mg/kg dw	0.21	0.13
C	1.7	0 to 3	Hardie Gypsum-2	1999	Arsenic	15	mg/kg dw		1.9		57	93	mg/kg dw	0.26	0.16
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Arsenic	23	mg/kg dw		1.9		57	93	mg/kg dw	0.4	0.25
3	1.7	0 to 3	Hardie Gypsum-2	1999	Arsenic	14	mg/kg dw		1.5		57	93	mg/kg dw	0.25	0.15
1	3.5	0 to 2	PSDDA98	1998	Arsenic	9	mg/kg dw		1.9		57	93	mg/kg dw	0.16	0.097
2	3.7	0 to 2	PSDDA98	1998	Arsenic	11	mg/kg dw		2.1		57	93	mg/kg dw	0.19	0.12
3	3.9	0 to 2	PSDDA98	1998	Arsenic	10	mg/kg dw		2.2		57	93	mg/kg dw	0.18	0.11
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Arsenic	20	mg/kg dw		2.52		57	93	mg/kg dw	0.35	0.22
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Arsenic	17	mg/kg dw		2.18		57	93	mg/kg dw	0.3	0.18
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Arsenic	18	mg/kg dw		2.12		57	93	mg/kg dw	0.32	0.19
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Arsenic	20	mg/kg dw		2.14		57	93	mg/kg dw	0.35	0.22
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Arsenic	19	mg/kg dw		2.24		57	93	mg/kg dw	0.33	0.2
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Arsenic	17	mg/kg dw		2.12		57	93	mg/kg dw	0.3	0.18
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(a)anthracene	0.18	mg/kg dw		1.8	10	110	270	mg/kg OC	0.091	0.037
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(a)anthracene	0.28	ug/kg dw		2.2	13	110	270	mg/kg OC	0.12	0.048
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Benzo(a)anthracene	0.038	ug/kg dw		0.7	5.4	110	270	mg/kg OC	0.049	0.02
1	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(a)anthracene	0.11	ug/kg dw		1.3	8.5	110	270	mg/kg OC	0.077	0.031
2	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(a)anthracene	0.17	ug/kg dw		2.3	7.4	110	270	mg/kg OC	0.067	0.027
3	1.7	0 to 4	Hardie Gypsum-1	1998	Benzo(a)anthracene	0.16	ug/kg dw		2.1	7.6	110	270	mg/kg OC	0.069	0.028
A	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(a)anthracene	0.11	ug/kg dw		2.1	5.2	110	270	mg/kg OC	0.047	0.019
B	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(a)anthracene	0.31	ug/kg dw		1.9	16	110	270	mg/kg OC	0.15	0.059
C	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(a)anthracene	0.54	ug/kg dw		1.9	28	110	270	mg/kg OC	0.25	0.1
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(a)anthracene	0.19	ug/kg dw		1.9	10	110	270	mg/kg OC	0.091	0.037
3	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(a)anthracene	0.094	ug/kg dw		1.5	6.3	110	270	mg/kg OC	0.057	0.023
1	3.5	0 to 2	PSDDA98	1998	Benzo(a)anthracene	0.061	ug/kg dw		1.9	3.2	110	270	mg/kg OC	0.029	0.012
2	3.7	0 to 2	PSDDA98	1998	Benzo(a)anthracene	0.083	ug/kg dw		2.1	4	110	270	mg/kg OC	0.036	0.015
3	3.9	0 to 2	PSDDA98	1998	Benzo(a)anthracene	0.063	ug/kg dw		2.2	2.9	110	270	mg/kg OC	0.026	0.011
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.017	ug/kg dw	J	0.541	3.1	110	270	mg/kg OC	0.028	0.011
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.24	ug/kg dw		2.52	9.5	110	270	mg/kg OC	0.086	0.035

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.15	ug/kg dw		2.18	6.9	110	270	mg/kg OC	0.063	0.026
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.28	mg/kg dw		2.17	13	110	270	mg/kg OC	0.12	0.048
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.44	mg/kg dw		2.05	21	110	270	mg/kg OC	0.19	0.078
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.19	mg/kg dw		2.12	9	110	270	mg/kg OC	0.082	0.033
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.34	mg/kg dw		1.6	21	110	270	mg/kg OC	0.19	0.078
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.31	mg/kg dw		1.76	18	110	270	mg/kg OC	0.16	0.067
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.22	mg/kg dw		1.39	16	110	270	mg/kg OC	0.15	0.059
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	1.1	mg/kg dw		1.78	62	110	270	mg/kg OC	0.56	0.23
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	3.2	mg/kg dw		2.14	150	110	270	mg/kg OC	1.4	0.56
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	2.7	mg/kg dw		2.29	120	110	270	mg/kg OC	1.1	0.44
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	7.1	mg/kg dw		1.3	550	110	270	mg/kg OC	5	2
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.18	mg/kg dw		1.46	12	110	270	mg/kg OC	0.11	0.044
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.15	mg/kg dw		2.24	6.7	110	270	mg/kg OC	0.061	0.025
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(a)anthracene	0.054	mg/kg dw		2.12	2.5	110	270	mg/kg OC	0.023	0.0093
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(a)pyrene	0.22	ug/kg dw		1.8	12	99	210	mg/kg OC	0.12	0.057
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(a)pyrene	0.3	ug/kg dw		2.2	14	99	210	mg/kg OC	0.14	0.067
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Benzo(a)pyrene	0.058	ug/kg dw		0.7	8.3	99	210	mg/kg OC	0.084	0.04
1	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(a)pyrene	0.09	ug/kg dw		1.3	6.9	99	210	mg/kg OC	0.07	0.033
2	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(a)pyrene	0.15	ug/kg dw		2.3	6.5	99	210	mg/kg OC	0.066	0.031
3	1.7	0 to 4	Hardie Gypsum-1	1998	Benzo(a)pyrene	0.12	ug/kg dw		2.1	5.7	99	210	mg/kg OC	0.058	0.027
A	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(a)pyrene	0.11	ug/kg dw		2.1	5.2	99	210	mg/kg OC	0.053	0.025
B	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(a)pyrene	0.2	ug/kg dw		1.9	11	99	210	mg/kg OC	0.11	0.052
C	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(a)pyrene	0.46	ug/kg dw		1.9	24	99	210	mg/kg OC	0.24	0.11
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(a)pyrene	0.16	ug/kg dw		1.9	8.4	99	210	mg/kg OC	0.085	0.04
3	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(a)pyrene	0.096	ug/kg dw		1.5	6.4	99	210	mg/kg OC	0.065	0.03
2	3.7	0 to 2	PSDDA98	1998	Benzo(a)pyrene	0.094	ug/kg dw		2.1	4.5	99	210	mg/kg OC	0.045	0.021
3	3.9	0 to 2	PSDDA98	1998	Benzo(a)pyrene	0.14	ug/kg dw		2.2	6.4	99	210	mg/kg OC	0.065	0.03
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.018	ug/kg dw	J	0.541	3.3	99	210	mg/kg OC	0.033	0.016
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.22	ug/kg dw		2.52	8.7	99	210	mg/kg OC	0.088	0.041
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.2	ug/kg dw		2.18	9.2	99	210	mg/kg OC	0.093	0.044
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.32	mg/kg dw		2.17	15	99	210	mg/kg OC	0.15	0.071
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.4	mg/kg dw		2.05	20	99	210	mg/kg OC	0.2	0.095
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.23	mg/kg dw		2.12	11	99	210	mg/kg OC	0.11	0.052
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.36	mg/kg dw		1.6	23	99	210	mg/kg OC	0.23	0.11
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.41	mg/kg dw		1.76	23	99	210	mg/kg OC	0.23	0.11
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.11	mg/kg dw		1.39	7.9	99	210	mg/kg OC	0.08	0.038
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.82	mg/kg dw		1.78	46	99	210	mg/kg OC	0.46	0.22
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	2.5	mg/kg dw		2.14	120	99	210	mg/kg OC	1.2	0.57
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	1.2	mg/kg dw		2.29	52	99	210	mg/kg OC	0.53	0.25
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	3	mg/kg dw		1.3	230	99	210	mg/kg OC	2.3	1.1
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.2	mg/kg dw		1.46	14	99	210	mg/kg OC	0.14	0.067
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.23	mg/kg dw		2.24	10	99	210	mg/kg OC	0.1	0.048
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(a)pyrene	0.083	mg/kg dw		2.12	3.9	99	210	mg/kg OC	0.039	0.019
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(b)fluoranthene	290	ug/kg dw		1.8						
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(b)fluoranthene	450	ug/kg dw		2.2						
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Benzo(b)fluoranthene	72	ug/kg dw		0.7						
1	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(b)fluoranthene	120	ug/kg dw		1.3						
2	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(b)fluoranthene	170	ug/kg dw		2.3						
3	1.7	0 to 4	Hardie Gypsum-1	1998	Benzo(b)fluoranthene	160	ug/kg dw		2.1						
A	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(b)fluoranthene	130	ug/kg dw		2.1						
B	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(b)fluoranthene	260	ug/kg dw		1.9						
C	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(b)fluoranthene	730	ug/kg dw		1.9						
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(b)fluoranthene	190	ug/kg dw		1.9						
3	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(b)fluoranthene	110	ug/kg dw		1.5						
1	3.5	0 to 2	PSDDA98	1998	Benzo(b)fluoranthene	53	ug/kg dw		1.9						

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
2	3.7	0 to 2	PSDDA98	1998	Benzo(b)fluoranthene	110	ug/kg dw		2.1						
3	3.9	0 to 2	PSDDA98	1998	Benzo(b)fluoranthene	100	ug/kg dw		2.2						
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	32	ug/kg dw		0.541						
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	290	ug/kg dw		2.52						
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	320	ug/kg dw		2.18						
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	530	ug/kg dw		2.17						
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	600	ug/kg dw		2.05						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	350	ug/kg dw		2.12						
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	400	ug/kg dw		1.6						
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	540	ug/kg dw		1.76						
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	140	ug/kg dw		1.39						
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	800	ug/kg dw		1.78						
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	3800	ug/kg dw		2.14						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	1900	ug/kg dw		2.29						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	3900	ug/kg dw		1.3						
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	300	ug/kg dw		1.46						
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	350	ug/kg dw		2.24						
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(b)fluoranthene	110	ug/kg dw		2.12						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(g,h,i)perylene	0.11	mg/kg dw		1.8	6.1	31	78	mg/kg OC	0.2	0.078
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(g,h,i)perylene	0.13	mg/kg dw		2.2	5.9	31	78	mg/kg OC	0.19	0.076
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Benzo(g,h,i)perylene	0.034	mg/kg dw		0.7	4.9	31	78	mg/kg OC	0.16	0.063
1	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(g,h,i)perylene	0.062	mg/kg dw		1.3	4.8	31	78	mg/kg OC	0.15	0.062
2	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(g,h,i)perylene	0.1	mg/kg dw		2.3	4.3	31	78	mg/kg OC	0.14	0.055
3	1.7	0 to 4	Hardie Gypsum-1	1998	Benzo(g,h,i)perylene	0.078	mg/kg dw		2.1	3.7	31	78	mg/kg OC	0.12	0.047
B	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(g,h,i)perylene	0.085	mg/kg dw		1.9	4.5	31	78	mg/kg OC	0.15	0.058
C	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(g,h,i)perylene	0.19	mg/kg dw		1.9	10	31	78	mg/kg OC	0.32	0.13
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(g,h,i)perylene	0.076	mg/kg dw		1.9	4	31	78	mg/kg OC	0.13	0.051
2	3.7	0 to 2	PSDDA98	1998	Benzo(g,h,i)perylene	0.077	mg/kg dw		2.1	3.7	31	78	mg/kg OC	0.12	0.047
3	3.9	0 to 2	PSDDA98	1998	Benzo(g,h,i)perylene	0.063	mg/kg dw		2.2	2.9	31	78	mg/kg OC	0.094	0.037
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.079	mg/kg dw		2.52	3.1	31	78	mg/kg OC	0.1	0.04
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.05	mg/kg dw	J	2.18	2.3	31	78	mg/kg OC	0.074	0.029
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.18	mg/kg dw		2.17	8.3	31	78	mg/kg OC	0.27	0.11
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.22	mg/kg dw		2.05	11	31	78	mg/kg OC	0.35	0.14
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.044	mg/kg dw	J	2.12	2.1	31	78	mg/kg OC	0.068	0.027
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.19	mg/kg dw		1.6	12	31	78	mg/kg OC	0.39	0.15
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.2	mg/kg dw		1.76	11	31	78	mg/kg OC	0.35	0.14
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.046	mg/kg dw	J	1.39	3.3	31	78	mg/kg OC	0.11	0.042
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.42	mg/kg dw		1.78	24	31	78	mg/kg OC	0.77	0.31
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.49	mg/kg dw		2.14	23	31	78	mg/kg OC	0.74	0.29
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.27	mg/kg dw		2.29	12	31	78	mg/kg OC	0.39	0.15
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.73	mg/kg dw		1.3	56	31	78	mg/kg OC	1.8	0.72
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.1	mg/kg dw		1.46	6.8	31	78	mg/kg OC	0.22	0.087
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.063	mg/kg dw		2.24	2.8	31	78	mg/kg OC	0.09	0.036
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(g,h,i)perylene	0.024	mg/kg dw		2.12	1.1	31	78	mg/kg OC	0.035	0.014
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(k)fluoranthene	170	ug/kg dw		1.8						
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Benzo(k)fluoranthene	230	ug/kg dw		2.2						
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Benzo(k)fluoranthene	50	ug/kg dw		0.7						
1	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(k)fluoranthene	100	ug/kg dw		1.3						
2	1.6	0 to 4	Hardie Gypsum-1	1998	Benzo(k)fluoranthene	140	ug/kg dw		2.3						
3	1.7	0 to 4	Hardie Gypsum-1	1998	Benzo(k)fluoranthene	120	ug/kg dw		2.1						
A	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(k)fluoranthene	120	ug/kg dw		2.1						
B	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(k)fluoranthene	240	ug/kg dw		1.9						
C	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(k)fluoranthene	650	ug/kg dw		1.9						
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Benzo(k)fluoranthene	200	ug/kg dw		1.9						
3	1.7	0 to 3	Hardie Gypsum-2	1999	Benzo(k)fluoranthene	100	ug/kg dw		1.5						

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
1	3.5	0 to 2	PSDDA98	1998	Benzo(k)fluoranthene	59	ug/kg dw		1.9						
2	3.7	0 to 2	PSDDA98	1998	Benzo(k)fluoranthene	120	ug/kg dw		2.1						
3	3.9	0 to 2	PSDDA98	1998	Benzo(k)fluoranthene	84	ug/kg dw		2.2						
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	23	ug/kg dw		0.541						
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	280	ug/kg dw		2.52						
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	270	ug/kg dw		2.18						
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	270	ug/kg dw		2.17						
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	400	ug/kg dw		2.05						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	320	ug/kg dw		2.12						
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	370	ug/kg dw		1.6						
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	390	ug/kg dw		1.76						
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	120	ug/kg dw		1.39						
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	730	ug/kg dw		1.78						
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	2200	ug/kg dw		2.14						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	1200	ug/kg dw		2.29						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	2500	ug/kg dw		1.3						
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	180	ug/kg dw		1.46						
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	260	ug/kg dw		2.24						
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Benzo(k)fluoranthene	82	ug/kg dw		2.12						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Benzofluoranthenes (total-calc'd)	0.46	mg/kg dw		1.8	26	230	450	mg/kg OC	0.11	0.058
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Benzofluoranthenes (total-calc'd)	0.68	mg/kg dw		2.2	31	230	450	mg/kg OC	0.13	0.069
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Benzofluoranthenes (total-calc'd)	0.122	mg/kg dw		0.7	17	230	450	mg/kg OC	0.074	0.038
1	1.6	0 to 4	Hardie Gypsum-1	1998	Benzofluoranthenes (total-calc'd)	0.22	mg/kg dw		1.3	17	230	450	mg/kg OC	0.074	0.038
2	1.6	0 to 4	Hardie Gypsum-1	1998	Benzofluoranthenes (total-calc'd)	0.31	mg/kg dw		2.3	13	230	450	mg/kg OC	0.057	0.029
3	1.7	0 to 4	Hardie Gypsum-1	1998	Benzofluoranthenes (total-calc'd)	0.28	mg/kg dw		2.1	13	230	450	mg/kg OC	0.057	0.029
A	1.6	0 to 3	Hardie Gypsum-2	1999	Benzofluoranthenes (total-calc'd)	0.25	mg/kg dw		2.1	12	230	450	mg/kg OC	0.052	0.027
B	1.6	0 to 3	Hardie Gypsum-2	1999	Benzofluoranthenes (total-calc'd)	0.5	mg/kg dw		1.9	26	230	450	mg/kg OC	0.11	0.058
C	1.7	0 to 3	Hardie Gypsum-2	1999	Benzofluoranthenes (total-calc'd)	1.38	mg/kg dw		1.9	73	230	450	mg/kg OC	0.32	0.16
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Benzofluoranthenes (total-calc'd)	0.39	mg/kg dw		1.9	21	230	450	mg/kg OC	0.091	0.047
3	1.7	0 to 3	Hardie Gypsum-2	1999	Benzofluoranthenes (total-calc'd)	0.21	mg/kg dw		1.5	14	230	450	mg/kg OC	0.061	0.031
1	3.5	0 to 2	PSDDA98	1998	Benzofluoranthenes (total-calc'd)	0.112	mg/kg dw		1.9	5.9	230	450	mg/kg OC	0.026	0.013
2	3.7	0 to 2	PSDDA98	1998	Benzofluoranthenes (total-calc'd)	0.23	mg/kg dw		2.1	11	230	450	mg/kg OC	0.048	0.024
3	3.9	0 to 2	PSDDA98	1998	Benzofluoranthenes (total-calc'd)	0.2	mg/kg dw		2.2	9	230	450	mg/kg OC	0.039	0.02
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.055	mg/kg dw		0.541	10	230	450	mg/kg OC	0.043	0.022
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.57	mg/kg dw		2.52	23	230	450	mg/kg OC	0.1	0.051
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.59	mg/kg dw		2.18	27	230	450	mg/kg OC	0.12	0.06
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.8	mg/kg dw		2.17	37	230	450	mg/kg OC	0.16	0.082
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	1	mg/kg dw		2.05	49	230	450	mg/kg OC	0.21	0.11
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.67	mg/kg dw		2.12	32	230	450	mg/kg OC	0.14	0.071
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.77	mg/kg dw		1.6	48	230	450	mg/kg OC	0.21	0.11
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.93	mg/kg dw		1.76	53	230	450	mg/kg OC	0.23	0.12
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.26	mg/kg dw		1.39	19	230	450	mg/kg OC	0.083	0.042
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	1.53	mg/kg dw		1.78	86	230	450	mg/kg OC	0.37	0.19
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	6	mg/kg dw		2.14	280	230	450	mg/kg OC	1.2	0.62
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	3.1	mg/kg dw		2.29	140	230	450	mg/kg OC	0.61	0.31
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	6.4	mg/kg dw		1.3	490	230	450	mg/kg OC	2.1	1.1
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.48	mg/kg dw		1.46	33	230	450	mg/kg OC	0.14	0.073
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.61	mg/kg dw		2.24	27	230	450	mg/kg OC	0.12	0.06
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Benzofluoranthenes (total-calc'd)	0.19	mg/kg dw		2.12	9	230	450	mg/kg OC	0.039	0.02
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Benzoic acid	280	ug/kg dw		1.9		650	650	ug/kg dw	0.43	0.43
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Benzoic acid	170	ug/kg dw	J	2.52		650	650	ug/kg dw	0.26	0.26
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Benzoic acid	120	ug/kg dw	J	2.18		650	650	ug/kg dw	0.18	0.18
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	Benzoic acid	57	ug/kg dw	J	0.11		650	650	ug/kg dw	0.088	0.088
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Benzoic acid	250	ug/kg dw		2.12		650	650	ug/kg dw	0.38	0.38
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Benzoic acid	240	ug/kg dw		2.14		650	650	ug/kg dw	0.37	0.37

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Benzyl alcohol	56	ug/kg dw		1.9		57	73	ug/kg dw	0.98	0.77
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Benzyl alcohol	20	ug/kg dw	J	2.24		57	73	ug/kg dw	0.35	0.27
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Bis(2-ethylhexyl)phthalate	0.24	mg/kg dw		1.8	13	47	78	mg/kg OC	0.28	0.17
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Bis(2-ethylhexyl)phthalate	0.34	mg/kg dw		2.2	15	47	78	mg/kg OC	0.32	0.19
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Bis(2-ethylhexyl)phthalate	0.098	mg/kg dw		0.7	14	47	78	mg/kg OC	0.3	0.18
2	1.6	0 to 4	Hardie Gypsum-1	1998	Bis(2-ethylhexyl)phthalate	0.5	mg/kg dw		2.3	22	47	78	mg/kg OC	0.47	0.28
3	1.7	0 to 4	Hardie Gypsum-1	1998	Bis(2-ethylhexyl)phthalate	0.26	mg/kg dw		2.1	12	47	78	mg/kg OC	0.26	0.15
A	1.6	0 to 3	Hardie Gypsum-2	1999	Bis(2-ethylhexyl)phthalate	0.38	mg/kg dw		2.1	18	47	78	mg/kg OC	0.38	0.23
B	1.6	0 to 3	Hardie Gypsum-2	1999	Bis(2-ethylhexyl)phthalate	0.54	mg/kg dw		1.9	28	47	78	mg/kg OC	0.6	0.36
C	1.7	0 to 3	Hardie Gypsum-2	1999	Bis(2-ethylhexyl)phthalate	0.47	mg/kg dw		1.9	25	47	78	mg/kg OC	0.53	0.32
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Bis(2-ethylhexyl)phthalate	0.45	mg/kg dw		1.9	24	47	78	mg/kg OC	0.51	0.31
3	1.7	0 to 3	Hardie Gypsum-2	1999	Bis(2-ethylhexyl)phthalate	0.2	mg/kg dw		1.5	13	47	78	mg/kg OC	0.28	0.17
1	3.5	0 to 2	PSDDA98	1998	Bis(2-ethylhexyl)phthalate	0.18	mg/kg dw		1.9	9.5	47	78	mg/kg OC	0.2	0.12
2	3.7	0 to 2	PSDDA98	1998	Bis(2-ethylhexyl)phthalate	0.3	mg/kg dw		2.1	10	47	78	mg/kg OC	0.21	0.13
3	3.9	0 to 2	PSDDA98	1998	Bis(2-ethylhexyl)phthalate	0.23	mg/kg dw		2.2	10	47	78	mg/kg OC	0.21	0.13
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.03	mg/kg dw		0.541	5.5	47	78	mg/kg OC	0.12	0.071
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.27	mg/kg dw		2.52	11	47	78	mg/kg OC	0.23	0.14
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.26	mg/kg dw		2.18	12	47	78	mg/kg OC	0.26	0.15
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.42	mg/kg dw		2.17	19	47	78	mg/kg OC	0.4	0.24
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.34	mg/kg dw		2.05	17	47	78	mg/kg OC	0.36	0.22
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.18	mg/kg dw		2.12	8.5	47	78	mg/kg OC	0.18	0.11
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.11	mg/kg dw		1.6	6.9	47	78	mg/kg OC	0.15	0.088
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.32	mg/kg dw		1.76	18	47	78	mg/kg OC	0.38	0.23
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.068	mg/kg dw		1.39	4.9	47	78	mg/kg OC	0.1	0.063
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.11	mg/kg dw		1.78	6.2	47	78	mg/kg OC	0.13	0.079
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	1.6	mg/kg dw		2.14	75	47	78	mg/kg OC	1.6	0.96
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.38	mg/kg dw		2.29	17	47	78	mg/kg OC	0.36	0.22
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.78	mg/kg dw		1.3	60	47	78	mg/kg OC	1.3	0.77
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.39	mg/kg dw		1.46	27	47	78	mg/kg OC	0.57	0.35
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.91	mg/kg dw		2.24	41	47	78	mg/kg OC	0.87	0.53
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Bis(2-ethylhexyl)phthalate	0.055	mg/kg dw		2.12	2.6	47	78	mg/kg OC	0.055	0.033
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Butyl benzyl phthalate	0.037	mg/kg dw		2.2	1.7	4.9	64	mg/kg OC	0.35	0.027
2	1.6	0 to 4	Hardie Gypsum-1	1998	Butyl benzyl phthalate	0.036	mg/kg dw		2.3	1.6	4.9	64	mg/kg OC	0.33	0.025
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.038	mg/kg dw		2.52	1.5	4.9	64	mg/kg OC	0.31	0.023
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.021	mg/kg dw		2.18	0.96	4.9	64	mg/kg OC	0.2	0.015
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.038	mg/kg dw	J	2.17	1.8	4.9	64	mg/kg OC	0.37	0.028
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.04	mg/kg dw	J	2.05	2	4.9	64	mg/kg OC	0.41	0.031
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.028	mg/kg dw		2.12	1.3	4.9	64	mg/kg OC	0.27	0.02
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.01	mg/kg dw	J	1.6	0.63	4.9	64	mg/kg OC	0.13	0.0098
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.03	mg/kg dw	J	1.76	1.7	4.9	64	mg/kg OC	0.35	0.027
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.008	mg/kg dw		1.39	0.58	4.9	64	mg/kg OC	0.12	0.0091
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.0086	mg/kg dw		1.78	0.48	4.9	64	mg/kg OC	0.098	0.0075
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.024	mg/kg dw		2.14	1.1	4.9	64	mg/kg OC	0.22	0.017
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.03	mg/kg dw		2.29	1.3	4.9	64	mg/kg OC	0.27	0.02
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.032	mg/kg dw		1.3	2.5	4.9	64	mg/kg OC	0.51	0.039
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.024	mg/kg dw		1.46	1.6	4.9	64	mg/kg OC	0.33	0.025
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Butyl benzyl phthalate	0.017	mg/kg dw	J	2.24	0.76	4.9	64	mg/kg OC	0.16	0.012
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Cadmium	0.66	mg/kg dw		1.8		5.1	6.7	mg/kg dw	0.13	0.099
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Cadmium	0.73	mg/kg dw		2.2		5.1	6.7	mg/kg dw	0.14	0.11
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Cadmium	0.22	mg/kg dw		0.7		5.1	6.7	mg/kg dw	0.043	0.033
c-4	1.6	4 to 12	Lone Star-Hardie Gypsum	1995	Cadmium	0.11	mg/kg dw		0.23		5.1	6.7	mg/kg dw	0.022	0.016
1	1.6	0 to 4	Hardie Gypsum-1	1998	Cadmium	0.25	mg/kg dw		1.3		5.1	6.7	mg/kg dw	0.049	0.037
2	1.6	0 to 4	Hardie Gypsum-1	1998	Cadmium	0.51	mg/kg dw		2.3		5.1	6.7	mg/kg dw	0.1	0.076
3	1.7	0 to 4	Hardie Gypsum-1	1998	Cadmium	0.44	mg/kg dw		2.1		5.1	6.7	mg/kg dw	0.086	0.066
A	1.6	0 to 3	Hardie Gypsum-2	1999	Cadmium	0.25	mg/kg dw		2.1		5.1	6.7	mg/kg dw	0.049	0.037

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units	TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
B	1.6	0 to 3	Hardie Gypsum-2	1999	Cadmium	0.19	mg/kg dw	1.9		5.1	6.7	mg/kg dw	0.037	0.028
C	1.7	0 to 3	Hardie Gypsum-2	1999	Cadmium	0.16	mg/kg dw	1.9		5.1	6.7	mg/kg dw	0.031	0.024
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Cadmium	0.21	mg/kg dw	1.9		5.1	6.7	mg/kg dw	0.041	0.031
3	1.7	0 to 3	Hardie Gypsum-2	1999	Cadmium	0.13	mg/kg dw	1.5		5.1	6.7	mg/kg dw	0.025	0.019
1	3.5	0 to 2	PSDDA98	1998	Cadmium	0.4	mg/kg dw	1.9		5.1	6.7	mg/kg dw	0.078	0.06
2	3.7	0 to 2	PSDDA98	1998	Cadmium	0.4	mg/kg dw	2.1		5.1	6.7	mg/kg dw	0.078	0.06
3	3.9	0 to 2	PSDDA98	1998	Cadmium	0.5	mg/kg dw	2.2		5.1	6.7	mg/kg dw	0.098	0.075
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Cadmium	0.5	mg/kg dw	2.52		5.1	6.7	mg/kg dw	0.098	0.075
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Cadmium	0.5	mg/kg dw	2.18		5.1	6.7	mg/kg dw	0.098	0.075
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Cadmium	0.5	mg/kg dw	2.12		5.1	6.7	mg/kg dw	0.098	0.075
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Cadmium	1.5	mg/kg dw	2.24		5.1	6.7	mg/kg dw	0.29	0.22
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Cadmium	0.9	mg/kg dw	2.12		5.1	6.7	mg/kg dw	0.18	0.13
2	1.6	0 to 4	Hardie Gypsum-1	1998	Chlordane	3.8	ug/kg dw	2.3						
3	1.7	0 to 4	Hardie Gypsum-1	1998	Chlordane	2.5	ug/kg dw	2.1						
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Chromium	11.4	mg/kg dw	0.541		260	270	mg/kg dw	0.044	0.042
LDW-SC30	1.6	3 to 4	LDW Subsurface Sediment 2006	2006	Chromium	10.6	mg/kg dw	0.271		260	270	mg/kg dw	0.041	0.039
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Chromium	35	mg/kg dw	2.52		260	270	mg/kg dw	0.13	0.13
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Chromium	31.1	mg/kg dw	2.18		260	270	mg/kg dw	0.12	0.12
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	Chromium	8.9	mg/kg dw	0.11		260	270	mg/kg dw	0.034	0.033
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Chromium	29.5	mg/kg dw	2.12		260	270	mg/kg dw	0.11	0.11
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Chromium	33.4	mg/kg dw	2.14		260	270	mg/kg dw	0.13	0.12
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Chromium	56.9	mg/kg dw	2.24		260	270	mg/kg dw	0.22	0.21
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Chromium	35.3	mg/kg dw	2.12		260	270	mg/kg dw	0.14	0.13
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Chrysene	0.25	mg/kg dw	1.8	14	110	460	mg/kg OC	0.13	0.03
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Chrysene	0.41	mg/kg dw	2.2	19	110	460	mg/kg OC	0.17	0.041
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Chrysene	0.057	mg/kg dw	0.7	8.1	110	460	mg/kg OC	0.074	0.018
1	1.6	0 to 4	Hardie Gypsum-1	1998	Chrysene	0.15	mg/kg dw	1.3	12	110	460	mg/kg OC	0.11	0.026
2	1.6	0 to 4	Hardie Gypsum-1	1998	Chrysene	0.23	mg/kg dw	2.3	10	110	460	mg/kg OC	0.091	0.022
3	1.7	0 to 4	Hardie Gypsum-1	1998	Chrysene	0.16	mg/kg dw	2.1	7.6	110	460	mg/kg OC	0.069	0.017
A	1.6	0 to 3	Hardie Gypsum-2	1999	Chrysene	0.2	mg/kg dw	2.1	9.5	110	460	mg/kg OC	0.086	0.021
B	1.6	0 to 3	Hardie Gypsum-2	1999	Chrysene	0.44	mg/kg dw	1.9	23	110	460	mg/kg OC	0.21	0.05
C	1.7	0 to 3	Hardie Gypsum-2	1999	Chrysene	1.4	mg/kg dw	1.9	74	110	460	mg/kg OC	0.67	0.16
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Chrysene	0.34	mg/kg dw	1.9	18	110	460	mg/kg OC	0.16	0.039
3	1.7	0 to 3	Hardie Gypsum-2	1999	Chrysene	0.16	mg/kg dw	1.5	11	110	460	mg/kg OC	0.1	0.024
1	3.5	0 to 2	PSDDA98	1998	Chrysene	0.07	mg/kg dw	1.9	3.7	110	460	mg/kg OC	0.034	0.008
2	3.7	0 to 2	PSDDA98	1998	Chrysene	0.12	mg/kg dw	2.1	5.7	110	460	mg/kg OC	0.052	0.012
3	3.9	0 to 2	PSDDA98	1998	Chrysene	0.095	mg/kg dw	2.2	4.3	110	460	mg/kg OC	0.039	0.0093
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Chrysene	0.025	mg/kg dw	0.541	4.6	110	460	mg/kg OC	0.042	0.01
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Chrysene	0.33	mg/kg dw	2.52	13	110	460	mg/kg OC	0.12	0.028
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Chrysene	0.25	mg/kg dw	2.18	11	110	460	mg/kg OC	0.1	0.024
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Chrysene	0.48	mg/kg dw	2.17	22	110	460	mg/kg OC	0.2	0.048
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Chrysene	0.69	mg/kg dw	2.05	34	110	460	mg/kg OC	0.31	0.074
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Chrysene	0.29	mg/kg dw	2.12	14	110	460	mg/kg OC	0.13	0.03
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Chrysene	0.5	mg/kg dw	1.6	31	110	460	mg/kg OC	0.28	0.067
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Chrysene	0.5	mg/kg dw	1.76	28	110	460	mg/kg OC	0.25	0.061
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Chrysene	0.23	mg/kg dw	1.39	17	110	460	mg/kg OC	0.15	0.037
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Chrysene	1.1	mg/kg dw	1.78	62	110	460	mg/kg OC	0.56	0.13
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Chrysene	7.2	mg/kg dw	2.14	340	110	460	mg/kg OC	3.1	0.74
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Chrysene	3.1	mg/kg dw	2.29	140	110	460	mg/kg OC	1.3	0.3
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Chrysene	7.8	mg/kg dw	1.3	600	110	460	mg/kg OC	5.5	1.3
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Chrysene	0.22	mg/kg dw	1.46	15	110	460	mg/kg OC	0.14	0.033
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Chrysene	0.28	mg/kg dw	2.24	13	110	460	mg/kg OC	0.12	0.028
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Chrysene	0.12	mg/kg dw	2.12	5.7	110	460	mg/kg OC	0.052	0.012
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Cobalt	4.3	mg/kg dw	0.541						
LDW-SC30	1.6	3 to 4	LDW Subsurface Sediment 2006	2006	Cobalt	3.9	mg/kg dw	0.271						

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Cobalt	9.7	mg/kg dw		2.52						
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Cobalt	9.2	mg/kg dw		2.18						
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	Cobalt	3.6	mg/kg dw		0.11						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Cobalt	9	mg/kg dw		2.12						
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Cobalt	10.9	mg/kg dw		2.14						
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Cobalt	9.6	mg/kg dw		2.24						
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Cobalt	8.1	mg/kg dw		2.12						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Copper	77	mg/kg dw		1.8		390	390	mg/kg dw	0.2	0.2
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Copper	120	mg/kg dw		2.2		390	390	mg/kg dw	0.31	0.31
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Copper	36	mg/kg dw		0.7		390	390	mg/kg dw	0.092	0.092
c-4	1.6	4 to 12	Lone Star-Hardie Gypsum	1995	Copper	26	mg/kg dw		0.23		390	390	mg/kg dw	0.067	0.067
1	1.6	0 to 4	Hardie Gypsum-1	1998	Copper	50	mg/kg dw		1.3		390	390	mg/kg dw	0.13	0.13
2	1.6	0 to 4	Hardie Gypsum-1	1998	Copper	84	mg/kg dw		2.3		390	390	mg/kg dw	0.22	0.22
3	1.7	0 to 4	Hardie Gypsum-1	1998	Copper	65	mg/kg dw		2.1		390	390	mg/kg dw	0.17	0.17
A	1.6	0 to 3	Hardie Gypsum-2	1999	Copper	61	mg/kg dw		2.1		390	390	mg/kg dw	0.16	0.16
B	1.6	0 to 3	Hardie Gypsum-2	1999	Copper	50	mg/kg dw		1.9		390	390	mg/kg dw	0.13	0.13
C	1.7	0 to 3	Hardie Gypsum-2	1999	Copper	170	mg/kg dw		1.9		390	390	mg/kg dw	0.44	0.44
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Copper	70	mg/kg dw		1.9		390	390	mg/kg dw	0.18	0.18
3	1.7	0 to 3	Hardie Gypsum-2	1999	Copper	54	mg/kg dw		1.5		390	390	mg/kg dw	0.14	0.14
1	3.5	0 to 2	PSDDA98	1998	Copper	25	mg/kg dw		1.9		390	390	mg/kg dw	0.064	0.064
2	3.7	0 to 2	PSDDA98	1998	Copper	42.6	mg/kg dw		2.1		390	390	mg/kg dw	0.11	0.11
3	3.9	0 to 2	PSDDA98	1998	Copper	41.3	mg/kg dw		2.2		390	390	mg/kg dw	0.11	0.11
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Copper	11.1	mg/kg dw	J	0.541		390	390	mg/kg dw	0.028	0.028
LDW-SC30	1.6	3 to 4	LDW Subsurface Sediment 2006	2006	Copper	16.4	mg/kg dw	J	0.271		390	390	mg/kg dw	0.042	0.042
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Copper	88.4	mg/kg dw		2.52		390	390	mg/kg dw	0.23	0.23
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Copper	72.9	mg/kg dw		2.18		390	390	mg/kg dw	0.19	0.19
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	Copper	9.3	mg/kg dw		0.11		390	390	mg/kg dw	0.024	0.024
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Copper	67.7	mg/kg dw		2.12		390	390	mg/kg dw	0.17	0.17
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Copper	73.3	mg/kg dw		2.14		390	390	mg/kg dw	0.19	0.19
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Copper	85.2	mg/kg dw	J	2.24		390	390	mg/kg dw	0.22	0.22
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Copper	46.7	mg/kg dw	J	2.12		390	390	mg/kg dw	0.12	0.12
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	DDTs (total-calc'd)	3.9	ug/kg dw		1.8						
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	DDTs (total-calc'd)	1.6	ug/kg dw		0.7						
2	3.7	0 to 2	PSDDA98	1998	DDTs (total-calc'd)	1.1	ug/kg dw	J	2.1						
3	3.9	0 to 2	PSDDA98	1998	DDTs (total-calc'd)	1.4	ug/kg dw	J	2.2						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Dibenzo(a,h)anthracene	0.027	mg/kg dw		1.8	1.5	12	33	mg/kg OC	0.13	0.045
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Dibenzo(a,h)anthracene	0.037	mg/kg dw		2.2	1.7	12	33	mg/kg OC	0.14	0.052
2	3.7	0 to 2	PSDDA98	1998	Dibenzo(a,h)anthracene	0.027	mg/kg dw		2.1	1.3	12	33	mg/kg OC	0.11	0.039
3	3.9	0 to 2	PSDDA98	1998	Dibenzo(a,h)anthracene	0.02	mg/kg dw		2.2	0.9	12	33	mg/kg OC	0.075	0.027
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.024	mg/kg dw	J	2.17	1.1	12	33	mg/kg OC	0.092	0.033
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.032	mg/kg dw	J	2.05	1.6	12	33	mg/kg OC	0.13	0.048
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.032	mg/kg dw	J	1.6	2	12	33	mg/kg OC	0.17	0.061
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.029	mg/kg dw	J	1.76	1.6	12	33	mg/kg OC	0.13	0.048
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.014	mg/kg dw		1.39	1	12	33	mg/kg OC	0.083	0.03
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.08	mg/kg dw		1.78	4.5	12	33	mg/kg OC	0.38	0.14
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.18	mg/kg dw		2.14	8.4	12	33	mg/kg OC	0.7	0.25
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.08	mg/kg dw		2.29	3.5	12	33	mg/kg OC	0.29	0.11
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.18	mg/kg dw		1.3	14	12	33	mg/kg OC	1.2	0.42
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Dibenzo(a,h)anthracene	0.043	mg/kg dw		1.46	2.9	12	33	mg/kg OC	0.24	0.088
B	1.6	0 to 3	Hardie Gypsum-2	1999	Dibenzofuran	0.14	mg/kg dw		1.9	7.4	15	58	mg/kg OC	0.49	0.13
C	1.7	0 to 3	Hardie Gypsum-2	1999	Dibenzofuran	0.25	mg/kg dw		1.9	13	15	58	mg/kg OC	0.87	0.22
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Dibenzofuran	0.056	mg/kg dw		1.9	2.9	15	58	mg/kg OC	0.19	0.05
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Dibenzofuran	0.11	mg/kg dw		1.39	7.9	15	58	mg/kg OC	0.53	0.14
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Dibenzofuran	0.12	mg/kg dw		1.78	6.7	15	58	mg/kg OC	0.45	0.12
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Dibenzofuran	0.11	mg/kg dw		2.14	5.1	15	58	mg/kg OC	0.34	0.088

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Dibenzofuran	0.32	mg/kg dw		2.29	14	15	58	mg/kg OC	0.93	0.24
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Dibenzofuran	0.65	mg/kg dw		1.3	50	15	58	mg/kg OC	3.3	0.86
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Dibutyltin as ion	13	ug/kg dw		2.52						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Dibutyltin as ion	12	ug/kg dw		2.12						
A	1.6	0 to 3	Hardie Gypsum-2	1999	Dieldrin	2.6	ug/kg dw		2.1						
B	1.6	0 to 3	Hardie Gypsum-2	1999	Dieldrin	2.2	ug/kg dw		1.9						
C	1.7	0 to 3	Hardie Gypsum-2	1999	Dieldrin	2.6	ug/kg dw		1.9						
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Dieldrin	2.8	ug/kg dw		1.9						
3	1.7	0 to 3	Hardie Gypsum-2	1999	Dieldrin	3.3	ug/kg dw		1.5						
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Di-n-butyl phthalate	0.047	mg/kg dw		0.541	8.7	220	1700	mg/kg OC	0.04	0.0051
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Di-n-butyl phthalate	0.033	mg/kg dw	J	2.52	1.3	220	1700	mg/kg OC	0.0059	0.00076
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	Di-n-butyl phthalate	11	ug/kg dw	J	0.11		1400	5100	ug/kg dw	0.0079	0.0022
3	1.7	0 to 4	Hardie Gypsum-1	1998	Di-n-octyl phthalate	0.03	mg/kg dw		2.1	1.4	58	4500	mg/kg OC	0.024	0.00031
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Ethylbenzene	5	ug/kg dw		1.9						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Fluoranthene	0.35	mg/kg dw		1.8	19	160	1200	mg/kg OC	0.12	0.016
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Fluoranthene	0.69	mg/kg dw		2.2	31	160	1200	mg/kg OC	0.19	0.026
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Fluoranthene	0.074	mg/kg dw		0.7	11	160	1200	mg/kg OC	0.069	0.0092
1	1.6	0 to 4	Hardie Gypsum-1	1998	Fluoranthene	0.22	mg/kg dw		1.3	17	160	1200	mg/kg OC	0.11	0.014
2	1.6	0 to 4	Hardie Gypsum-1	1998	Fluoranthene	0.38	mg/kg dw		2.3	17	160	1200	mg/kg OC	0.11	0.014
3	1.7	0 to 4	Hardie Gypsum-1	1998	Fluoranthene	0.54	mg/kg dw		2.1	26	160	1200	mg/kg OC	0.16	0.022
A	1.6	0 to 3	Hardie Gypsum-2	1999	Fluoranthene	0.22	mg/kg dw		2.1	10	160	1200	mg/kg OC	0.063	0.0083
B	1.6	0 to 3	Hardie Gypsum-2	1999	Fluoranthene	1.2	mg/kg dw		1.9	63	160	1200	mg/kg OC	0.39	0.053
C	1.7	0 to 3	Hardie Gypsum-2	1999	Fluoranthene	2.4	mg/kg dw		1.9	130	160	1200	mg/kg OC	0.81	0.11
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Fluoranthene	0.6	mg/kg dw		1.9	32	160	1200	mg/kg OC	0.2	0.027
3	1.7	0 to 3	Hardie Gypsum-2	1999	Fluoranthene	0.22	mg/kg dw		1.5	15	160	1200	mg/kg OC	0.094	0.013
1	3.5	0 to 2	PSDDA98	1998	Fluoranthene	0.16	mg/kg dw		1.9	8.4	160	1200	mg/kg OC	0.053	0.007
2	3.7	0 to 2	PSDDA98	1998	Fluoranthene	0.2	mg/kg dw		2.1	10	160	1200	mg/kg OC	0.063	0.0083
3	3.9	0 to 2	PSDDA98	1998	Fluoranthene	0.13	mg/kg dw		2.2	5.9	160	1200	mg/kg OC	0.037	0.0049
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.042	mg/kg dw		0.541	7.8	160	1200	mg/kg OC	0.049	0.0065
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.6	mg/kg dw		2.52	24	160	1200	mg/kg OC	0.15	0.02
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.32	mg/kg dw		2.18	15	160	1200	mg/kg OC	0.094	0.013
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.41	mg/kg dw		2.17	19	160	1200	mg/kg OC	0.12	0.016
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.92	mg/kg dw		2.05	45	160	1200	mg/kg OC	0.28	0.038
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.45	mg/kg dw	J	2.12	21	160	1200	mg/kg OC	0.13	0.018
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.75	mg/kg dw		1.6	47	160	1200	mg/kg OC	0.29	0.039
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.58	mg/kg dw		1.76	33	160	1200	mg/kg OC	0.21	0.028
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Fluoranthene	1.2	mg/kg dw		1.39	86	160	1200	mg/kg OC	0.54	0.072
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Fluoranthene	2.4	mg/kg dw		1.78	130	160	1200	mg/kg OC	0.81	0.11
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Fluoranthene	7.4	mg/kg dw	J	2.14	350	160	1200	mg/kg OC	2.2	0.29
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Fluoranthene	10	mg/kg dw		2.29	440	160	1200	mg/kg OC	2.8	0.37
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Fluoranthene	24	mg/kg dw		1.3	1800	160	1200	mg/kg OC	11	1.5
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.42	mg/kg dw		1.46	29	160	1200	mg/kg OC	0.18	0.024
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.28	mg/kg dw		2.24	13	160	1200	mg/kg OC	0.081	0.011
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Fluoranthene	0.084	mg/kg dw		2.12	4	160	1200	mg/kg OC	0.025	0.0033
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Fluorene	0.039	mg/kg dw		2.2	1.8	23	79	mg/kg OC	0.078	0.023
B	1.6	0 to 3	Hardie Gypsum-2	1999	Fluorene	0.13	mg/kg dw		1.9	6.8	23	79	mg/kg OC	0.3	0.086
C	1.7	0 to 3	Hardie Gypsum-2	1999	Fluorene	0.29	mg/kg dw		1.9	15	23	79	mg/kg OC	0.65	0.19
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Fluorene	0.044	mg/kg dw	J	1.6	2.8	23	79	mg/kg OC	0.12	0.035
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Fluorene	0.047	mg/kg dw	J	1.76	2.7	23	79	mg/kg OC	0.12	0.034
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Fluorene	0.23	mg/kg dw		1.39	17	23	79	mg/kg OC	0.74	0.22
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Fluorene	0.19	mg/kg dw		1.78	11	23	79	mg/kg OC	0.48	0.14
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Fluorene	0.26	mg/kg dw		2.14	12	23	79	mg/kg OC	0.52	0.15
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Fluorene	0.46	mg/kg dw		2.29	20	23	79	mg/kg OC	0.87	0.25
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Fluorene	1.8	mg/kg dw		1.3	140	23	79	mg/kg OC	6.1	1.8
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Hexachlorobutadiene	0.0029	mg/kg dw		1.9	0.15	3.9	6.2	mg/kg OC	0.038	0.024

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Hexachloroethane	56	ug/kg dw		1.9						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Indeno(1,2,3-cd)pyrene	0.11	mg/kg dw		1.8	6.1	34	88	mg/kg OC	0.18	0.069
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Indeno(1,2,3-cd)pyrene	0.14	mg/kg dw		2.2	6.4	34	88	mg/kg OC	0.19	0.073
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Indeno(1,2,3-cd)pyrene	0.035	mg/kg dw		0.7	5	34	88	mg/kg OC	0.15	0.057
1	1.6	0 to 4	Hardie Gypsum-1	1998	Indeno(1,2,3-cd)pyrene	0.061	mg/kg dw		1.3	4.7	34	88	mg/kg OC	0.14	0.053
2	1.6	0 to 4	Hardie Gypsum-1	1998	Indeno(1,2,3-cd)pyrene	0.1	mg/kg dw		2.3	4.3	34	88	mg/kg OC	0.13	0.049
3	1.7	0 to 4	Hardie Gypsum-1	1998	Indeno(1,2,3-cd)pyrene	0.071	mg/kg dw		2.1	3.4	34	88	mg/kg OC	0.1	0.039
B	1.6	0 to 3	Hardie Gypsum-2	1999	Indeno(1,2,3-cd)pyrene	0.091	mg/kg dw		1.9	4.8	34	88	mg/kg OC	0.14	0.055
C	1.7	0 to 3	Hardie Gypsum-2	1999	Indeno(1,2,3-cd)pyrene	0.21	mg/kg dw		1.9	11	34	88	mg/kg OC	0.32	0.13
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Indeno(1,2,3-cd)pyrene	0.076	mg/kg dw		1.9	4	34	88	mg/kg OC	0.12	0.045
2	3.7	0 to 2	PSDDA98	1998	Indeno(1,2,3-cd)pyrene	0.095	mg/kg dw		2.1	4.5	34	88	mg/kg OC	0.13	0.051
3	3.9	0 to 2	PSDDA98	1998	Indeno(1,2,3-cd)pyrene	0.073	mg/kg dw		2.2	3.3	34	88	mg/kg OC	0.097	0.038
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.098	mg/kg dw		2.52	3.9	34	88	mg/kg OC	0.11	0.044
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.056	mg/kg dw	J	2.18	2.6	34	88	mg/kg OC	0.076	0.03
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.18	mg/kg dw		2.17	8.3	34	88	mg/kg OC	0.24	0.094
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.22	mg/kg dw		2.05	11	34	88	mg/kg OC	0.32	0.13
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.052	mg/kg dw	J	2.12	2.5	34	88	mg/kg OC	0.074	0.028
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.21	mg/kg dw		1.6	13	34	88	mg/kg OC	0.38	0.15
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.21	mg/kg dw		1.76	12	34	88	mg/kg OC	0.35	0.14
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.049	mg/kg dw	J	1.39	3.5	34	88	mg/kg OC	0.1	0.04
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.4	mg/kg dw		1.78	22	34	88	mg/kg OC	0.65	0.25
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.68	mg/kg dw	J	2.14	32	34	88	mg/kg OC	0.94	0.36
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.37	mg/kg dw		2.29	16	34	88	mg/kg OC	0.47	0.18
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.93	mg/kg dw		1.3	72	34	88	mg/kg OC	2.1	0.82
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.083	mg/kg dw		1.46	5.7	34	88	mg/kg OC	0.17	0.065
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.071	mg/kg dw		2.24	3.2	34	88	mg/kg OC	0.094	0.036
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Indeno(1,2,3-cd)pyrene	0.024	mg/kg dw		2.12	1.1	34	88	mg/kg OC	0.032	0.013
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Lead	83	mg/kg dw		1.8		450	530	mg/kg dw	0.18	0.16
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Lead	160	mg/kg dw		2.2		450	530	mg/kg dw	0.36	0.3
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Lead	35	mg/kg dw		0.7		450	530	mg/kg dw	0.078	0.066
c-4	1.6	4 to 12	Lone Star-Hardie Gypsum	1995	Lead	17	mg/kg dw		0.23		450	530	mg/kg dw	0.038	0.032
1	1.6	0 to 4	Hardie Gypsum-1	1998	Lead	14	mg/kg dw		1.3		450	530	mg/kg dw	0.031	0.026
2	1.6	0 to 4	Hardie Gypsum-1	1998	Lead	55	mg/kg dw		2.3		450	530	mg/kg dw	0.12	0.1
3	1.7	0 to 4	Hardie Gypsum-1	1998	Lead	51	mg/kg dw		2.1		450	530	mg/kg dw	0.11	0.096
A	1.6	0 to 3	Hardie Gypsum-2	1999	Lead	50	mg/kg dw		2.1		450	530	mg/kg dw	0.11	0.094
B	1.6	0 to 3	Hardie Gypsum-2	1999	Lead	37	mg/kg dw		1.9		450	530	mg/kg dw	0.082	0.07
C	1.7	0 to 3	Hardie Gypsum-2	1999	Lead	32	mg/kg dw		1.9		450	530	mg/kg dw	0.071	0.06
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Lead	78	mg/kg dw		1.9		450	530	mg/kg dw	0.17	0.15
3	1.7	0 to 3	Hardie Gypsum-2	1999	Lead	45	mg/kg dw		1.5		450	530	mg/kg dw	0.1	0.085
1	3.5	0 to 2	PSDDA98	1998	Lead	32	mg/kg dw		1.9		450	530	mg/kg dw	0.071	0.06
2	3.7	0 to 2	PSDDA98	1998	Lead	22	mg/kg dw		2.1		450	530	mg/kg dw	0.049	0.042
3	3.9	0 to 2	PSDDA98	1998	Lead	22	mg/kg dw		2.2		450	530	mg/kg dw	0.049	0.042
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Lead	3	mg/kg dw		0.541		450	530	mg/kg dw	0.0067	0.0057
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Lead	49	mg/kg dw		2.52		450	530	mg/kg dw	0.11	0.092
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Lead	43	mg/kg dw		2.18		450	530	mg/kg dw	0.096	0.081
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Lead	56	mg/kg dw	J	2.12		450	530	mg/kg dw	0.12	0.11
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Lead	46	mg/kg dw	J	2.14		450	530	mg/kg dw	0.1	0.087
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Lead	108	mg/kg dw		2.24		450	530	mg/kg dw	0.24	0.2
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Lead	43	mg/kg dw		2.12		450	530	mg/kg dw	0.096	0.081
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Mercury	0.11	mg/kg dw		1.8		0.41	0.59	mg/kg dw	0.27	0.19
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Mercury	0.089	mg/kg dw		2.2		0.41	0.59	mg/kg dw	0.22	0.15
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Mercury	0.069	mg/kg dw		0.7		0.41	0.59	mg/kg dw	0.17	0.12
1	1.6	0 to 4	Hardie Gypsum-1	1998	Mercury	0.18	mg/kg dw		1.3		0.41	0.59	mg/kg dw	0.44	0.31
2	1.6	0 to 4	Hardie Gypsum-1	1998	Mercury	0.21	mg/kg dw		2.3		0.41	0.59	mg/kg dw	0.51	0.36
3	1.7	0 to 4	Hardie Gypsum-1	1998	Mercury	0.17	mg/kg dw		2.1		0.41	0.59	mg/kg dw	0.41	0.29

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
A	1.6	0 to 3	Hardie Gypsum-2	1999	Mercury	0.16	mg/kg dw		2.1		0.41	0.59	mg/kg dw	0.39	0.27
B	1.6	0 to 3	Hardie Gypsum-2	1999	Mercury	0.17	mg/kg dw		1.9		0.41	0.59	mg/kg dw	0.41	0.29
C	1.7	0 to 3	Hardie Gypsum-2	1999	Mercury	0.17	mg/kg dw		1.9		0.41	0.59	mg/kg dw	0.41	0.29
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Mercury	0.22	mg/kg dw		1.9		0.41	0.59	mg/kg dw	0.54	0.37
3	1.7	0 to 3	Hardie Gypsum-2	1999	Mercury	0.21	mg/kg dw		1.5		0.41	0.59	mg/kg dw	0.51	0.36
1	3.5	0 to 2	PSDDA98	1998	Mercury	0.12	mg/kg dw		1.9		0.41	0.59	mg/kg dw	0.29	0.2
3	3.9	0 to 2	PSDDA98	1998	Mercury	0.11	mg/kg dw		2.2		0.41	0.59	mg/kg dw	0.27	0.19
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Mercury	0.33	mg/kg dw		2.52		0.41	0.59	mg/kg dw	0.8	0.56
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Mercury	0.22	mg/kg dw		2.18		0.41	0.59	mg/kg dw	0.54	0.37
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Mercury	0.2	mg/kg dw		2.12		0.41	0.59	mg/kg dw	0.49	0.34
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Mercury	0.2	mg/kg dw		2.14		0.41	0.59	mg/kg dw	0.49	0.34
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Mercury	0.52	mg/kg dw		2.24		0.41	0.59	mg/kg dw	1.3	0.88
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Mercury	0.41	mg/kg dw		2.12		0.41	0.59	mg/kg dw	1	0.69
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Molybdenum	1	mg/kg dw		2.18						
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Molybdenum	1.1	mg/kg dw		2.14						
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Molybdenum	2.5	mg/kg dw		2.24						
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Molybdenum	1.9	mg/kg dw		2.12						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Monobutyltin as ion	8	ug/kg dw		2.12						
B	1.6	0 to 3	Hardie Gypsum-2	1999	Naphthalene	0.44	mg/kg dw		1.9	23	99	170	mg/kg OC	0.23	0.14
C	1.7	0 to 3	Hardie Gypsum-2	1999	Naphthalene	0.12	mg/kg dw		1.9	6.3	99	170	mg/kg OC	0.064	0.037
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Naphthalene	0.11	mg/kg dw		1.78	6.2	99	170	mg/kg OC	0.063	0.036
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Naphthalene	0.055	mg/kg dw	J	2.29	2.4	99	170	mg/kg OC	0.024	0.014
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Naphthalene	0.2	mg/kg dw		1.3	15	99	170	mg/kg OC	0.15	0.088
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Naphthalene	0.012	mg/kg dw	J	2.12	0.57	99	170	mg/kg OC	0.0058	0.0034
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Nickel	42	mg/kg dw		1.8						
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Nickel	44	mg/kg dw		2.2						
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Nickel	32	mg/kg dw		0.7						
c-4	1.6	4 to 12	Lone Star-Hardie Gypsum	1995	Nickel	22	mg/kg dw		0.23						
1	1.6	0 to 4	Hardie Gypsum-1	1998	Nickel	15	mg/kg dw		1.3						
2	1.6	0 to 4	Hardie Gypsum-1	1998	Nickel	24	mg/kg dw		2.3						
3	1.7	0 to 4	Hardie Gypsum-1	1998	Nickel	15	mg/kg dw		2.1						
A	1.6	0 to 3	Hardie Gypsum-2	1999	Nickel	17	mg/kg dw		2.1						
B	1.6	0 to 3	Hardie Gypsum-2	1999	Nickel	14	mg/kg dw		1.9						
C	1.7	0 to 3	Hardie Gypsum-2	1999	Nickel	15	mg/kg dw		1.9						
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Nickel	17	mg/kg dw		1.9						
3	1.7	0 to 3	Hardie Gypsum-2	1999	Nickel	15	mg/kg dw		1.5						
1	3.5	0 to 2	PSDDA98	1998	Nickel	21.9	mg/kg dw		1.9						
2	3.7	0 to 2	PSDDA98	1998	Nickel	26	mg/kg dw		2.1						
3	3.9	0 to 2	PSDDA98	1998	Nickel	26	mg/kg dw		2.2						
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Nickel	7	mg/kg dw	J	0.541						
LDW-SC30	1.6	3 to 4	LDW Subsurface Sediment 2006	2006	Nickel	6	mg/kg dw	J	0.271						
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Nickel	22	mg/kg dw		2.52						
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Nickel	21	mg/kg dw		2.18						
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	Nickel	6	mg/kg dw		0.11						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Nickel	22	mg/kg dw		2.12				mg/kg dw		
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Nickel	28	mg/kg dw		2.14				mg/kg dw		
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Nickel	27	mg/kg dw	J	2.24				mg/kg dw		
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Nickel	19	mg/kg dw	J	2.12				mg/kg dw		
2b	1.6	0 to 3	Hardie Gypsum-2	1999	N-Nitrosodiphenylamine	0.028	mg/kg dw		1.9	1.5	11	11	mg/kg OC	0.14	0.14
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	PCBs (total calc'd)	0.14	mg/kg dw		1.8	7.8	12	65	mg/kg OC	0.65	0.12
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	PCBs (total calc'd)	0.13	mg/kg dw		2.2	5.9	12	65	mg/kg OC	0.49	0.091
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	PCBs (total calc'd)	0.071	mg/kg dw		0.7	10	12	65	mg/kg OC	0.83	0.15
1	1.6	0 to 4	Hardie Gypsum-1	1998	PCBs (total calc'd)	0.107	mg/kg dw		1.3	8.2	12	65	mg/kg OC	0.68	0.13
2	1.6	0 to 4	Hardie Gypsum-1	1998	PCBs (total calc'd)	0.29	mg/kg dw		2.3	13	12	65	mg/kg OC	1.1	0.2
3	1.7	0 to 4	Hardie Gypsum-1	1998	PCBs (total calc'd)	0.24	mg/kg dw		2.1	11	12	65	mg/kg OC	0.92	0.17

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
A	1.6	0 to 3	Hardie Gypsum-2	1999	PCBs (total calc'd)	0.116	mg/kg dw		2.1	5.5	12	65	mg/kg OC	0.46	0.085
B	1.6	0 to 3	Hardie Gypsum-2	1999	PCBs (total calc'd)	0.137	mg/kg dw		1.9	7.2	12	65	mg/kg OC	0.6	0.11
C	1.7	0 to 3	Hardie Gypsum-2	1999	PCBs (total calc'd)	0.142	mg/kg dw		1.9	7.5	12	65	mg/kg OC	0.63	0.12
2b	1.6	0 to 3	Hardie Gypsum-2	1999	PCBs (total calc'd)	0.14	mg/kg dw		1.9	7.4	12	65	mg/kg OC	0.62	0.11
3	1.7	0 to 3	Hardie Gypsum-2	1999	PCBs (total calc'd)	0.175	mg/kg dw		1.5	12	12	65	mg/kg OC	1	0.18
1	3.5	0 to 2	PSDDA98	1998	PCBs (total calc'd)	0.035	mg/kg dw	J	1.9	1.8	12	65	mg/kg OC	0.15	0.028
2	3.7	0 to 2	PSDDA98	1998	PCBs (total calc'd)	0.05	mg/kg dw		2.1	2	12	65	mg/kg OC	0.17	0.031
3	3.9	0 to 2	PSDDA98	1998	PCBs (total calc'd)	0.051	mg/kg dw		2.2	2.3	12	65	mg/kg OC	0.19	0.035
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.0129	mg/kg dw		0.541	2.4	12	65	mg/kg OC	0.2	0.037
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.37	mg/kg dw		2.52	15	12	65	mg/kg OC	1.3	0.23
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.33	mg/kg dw		2.18	15	12	65	mg/kg OC	1.3	0.23
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	2.7	ug/kg dw	J	0.11		130	1000	ug/kg dw	0.021	0.0027
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.177	mg/kg dw		2.12	8.3	12	65	mg/kg OC	0.69	0.13
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.219	mg/kg dw		2.14	10	12	65	mg/kg OC	0.83	0.15
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.88	mg/kg dw		1.46	60	12	65	mg/kg OC	5	0.92
LDW-SC23	1.2	6 to 8	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.4	mg/kg dw		2.25	18	12	65	mg/kg OC	1.5	0.28
LDW-SC23	1.2	8 to 10	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.041	mg/kg dw		1.63	2.5	12	65	mg/kg OC	0.21	0.038
LDW-SC27	1.4	0 to 1	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	2	mg/kg dw		1.8	110	12	65	mg/kg OC	9.2	1.7
LDW-SC27	1.4	0 to 1	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.25	mg/kg dw		1.54	16	12	65	mg/kg OC	1.3	0.25
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	3.3	mg/kg dw		2.24	150	12	65	mg/kg OC	13	2.3
LDW-SC27	1.4	1 to 2	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	1.51	mg/kg dw		1.82	83	12	65	mg/kg OC	6.9	1.3
LDW-SC27	1.4	1 to 2	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	3.2	mg/kg dw		1.22	260	12	65	mg/kg OC	22	4
LDW-SC27	1.4	2 to 3	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.29	mg/kg dw		2.27	13	12	65	mg/kg OC	1.1	0.2
LDW-SC27	1.4	2 to 3	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.84	mg/kg dw		2.14	39	12	65	mg/kg OC	3.3	0.6
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.25	mg/kg dw	J	2.12	12	12	65	mg/kg OC	1	0.18
LDW-SC27	1.4	3 to 4	LDW Subsurface Sediment 2006	2006	PCBs (total calc'd)	0.06	mg/kg dw		1.8	3.3	12	65	mg/kg OC	0.28	0.051
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Pentachlorophenol	40	ug/kg dw		1.46		360	690	ug/kg dw	0.11	0.058
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Phenanthrene	0.12	mg/kg dw		1.8	6.7	100	480	mg/kg OC	0.067	0.014
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Phenanthrene	0.24	mg/kg dw		2.2	11	100	480	mg/kg OC	0.11	0.023
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Phenanthrene	0.027	mg/kg dw		0.7	3.9	100	480	mg/kg OC	0.039	0.0081
1	1.6	0 to 4	Hardie Gypsum-1	1998	Phenanthrene	0.068	mg/kg dw		1.3	5.2	100	480	mg/kg OC	0.052	0.011
2	1.6	0 to 4	Hardie Gypsum-1	1998	Phenanthrene	0.15	mg/kg dw		2.3	6.5	100	480	mg/kg OC	0.065	0.014
3	1.7	0 to 4	Hardie Gypsum-1	1998	Phenanthrene	0.077	mg/kg dw		2.1	3.7	100	480	mg/kg OC	0.037	0.0077
A	1.6	0 to 3	Hardie Gypsum-2	1999	Phenanthrene	0.11	mg/kg dw		2.1	5.2	100	480	mg/kg OC	0.052	0.011
B	1.6	0 to 3	Hardie Gypsum-2	1999	Phenanthrene	0.66	mg/kg dw		1.9	35	100	480	mg/kg OC	0.35	0.073
C	1.7	0 to 3	Hardie Gypsum-2	1999	Phenanthrene	2.2	mg/kg dw		1.9	120	100	480	mg/kg OC	1.2	0.25
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Phenanthrene	0.45	mg/kg dw		1.9	24	100	480	mg/kg OC	0.24	0.05
3	1.7	0 to 3	Hardie Gypsum-2	1999	Phenanthrene	0.1	mg/kg dw		1.5	6.7	100	480	mg/kg OC	0.067	0.014
1	3.5	0 to 2	PSDDA98	1998	Phenanthrene	0.075	mg/kg dw		1.9	3.9	100	480	mg/kg OC	0.039	0.0081
2	3.7	0 to 2	PSDDA98	1998	Phenanthrene	0.072	mg/kg dw		2.1	3.4	100	480	mg/kg OC	0.034	0.0071
3	3.9	0 to 2	PSDDA98	1998	Phenanthrene	0.055	mg/kg dw		2.2	2.5	100	480	mg/kg OC	0.025	0.0052
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.015	mg/kg dw	J	0.541	2.8	100	480	mg/kg OC	0.028	0.0058
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.14	mg/kg dw		2.52	5.6	100	480	mg/kg OC	0.056	0.012
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.1	mg/kg dw		2.18	4.6	100	480	mg/kg OC	0.046	0.0096
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.14	mg/kg dw		2.17	6.5	100	480	mg/kg OC	0.065	0.014
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.21	mg/kg dw		2.05	10	100	480	mg/kg OC	0.1	0.021
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.1	mg/kg dw		2.12	4.7	100	480	mg/kg OC	0.047	0.0098
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.48	mg/kg dw		1.6	30	100	480	mg/kg OC	0.3	0.063
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.38	mg/kg dw		1.76	22	100	480	mg/kg OC	0.22	0.046
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.38	mg/kg dw		1.39	27	100	480	mg/kg OC	0.27	0.056
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Phenanthrene	1.7	mg/kg dw		1.78	96	100	480	mg/kg OC	0.96	0.2
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Phenanthrene	1.2	mg/kg dw		2.14	56	100	480	mg/kg OC	0.56	0.12
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Phenanthrene	1.3	mg/kg dw		2.29	57	100	480	mg/kg OC	0.57	0.12
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Phenanthrene	12	mg/kg dw		1.3	920	100	480	mg/kg OC	9.2	1.9
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.15	mg/kg dw		1.46	10	100	480	mg/kg OC	0.1	0.021

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.16	mg/kg dw		2.24	7.1	100	480	mg/kg OC	0.071	0.015
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Phenanthrene	0.06	mg/kg dw		2.12	2.8	100	480	mg/kg OC	0.028	0.0058
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Phenol	32	ug/kg dw		1.8		420	1200	ug/kg dw	0.076	0.027
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Phenol	36	ug/kg dw		2.2		420	1200	ug/kg dw	0.086	0.03
C	1.7	0 to 3	Hardie Gypsum-2	1999	Phenol	99	ug/kg dw		1.9		420	1200	ug/kg dw	0.24	0.083
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Phenol	240	ug/kg dw		1.9		420	1200	ug/kg dw	0.57	0.2
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Phenol	18	ug/kg dw	J	2.12		420	1200	ug/kg dw	0.043	0.015
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Pyrene	0.41	mg/kg dw		1.8	23	1000	1400	mg/kg OC	0.023	0.016
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Pyrene	0.72	mg/kg dw		2.2	33	1000	1400	mg/kg OC	0.033	0.024
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Pyrene	0.097	mg/kg dw		0.7	14	1000	1400	mg/kg OC	0.014	0.01
1	1.6	0 to 4	Hardie Gypsum-1	1998	Pyrene	0.24	mg/kg dw		1.3	18	1000	1400	mg/kg OC	0.018	0.013
2	1.6	0 to 4	Hardie Gypsum-1	1998	Pyrene	0.41	mg/kg dw		2.3	18	1000	1400	mg/kg OC	0.018	0.013
3	1.7	0 to 4	Hardie Gypsum-1	1998	Pyrene	0.66	mg/kg dw		2.1	31	1000	1400	mg/kg OC	0.031	0.022
A	1.6	0 to 3	Hardie Gypsum-2	1999	Pyrene	0.37	mg/kg dw		2.1	18	1000	1400	mg/kg OC	0.018	0.013
B	1.6	0 to 3	Hardie Gypsum-2	1999	Pyrene	1.1	mg/kg dw		1.9	58	1000	1400	mg/kg OC	0.058	0.041
C	1.7	0 to 3	Hardie Gypsum-2	1999	Pyrene	2.8	mg/kg dw		1.9	150	1000	1400	mg/kg OC	0.15	0.11
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Pyrene	0.67	mg/kg dw		1.9	35	1000	1400	mg/kg OC	0.035	0.025
3	1.7	0 to 3	Hardie Gypsum-2	1999	Pyrene	0.38	mg/kg dw		1.5	25	1000	1400	mg/kg OC	0.025	0.018
1	3.5	0 to 2	PSDDA98	1998	Pyrene	0.029	mg/kg dw		1.9	1.5	1000	1400	mg/kg OC	0.0015	0.0011
2	3.7	0 to 2	PSDDA98	1998	Pyrene	0.24	mg/kg dw		2.1	11	1000	1400	mg/kg OC	0.011	0.0079
3	3.9	0 to 2	PSDDA98	1998	Pyrene	0.17	mg/kg dw		2.2	7.7	1000	1400	mg/kg OC	0.0077	0.0055
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Pyrene	0.026	mg/kg dw		0.541	4.8	1000	1400	mg/kg OC	0.0048	0.0034
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Pyrene	0.41	mg/kg dw		2.52	16	1000	1400	mg/kg OC	0.016	0.011
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Pyrene	0.43	mg/kg dw		2.18	20	1000	1400	mg/kg OC	0.02	0.014
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Pyrene	0.66	mg/kg dw		2.17	30	1000	1400	mg/kg OC	0.03	0.021
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Pyrene	0.92	mg/kg dw		2.05	45	1000	1400	mg/kg OC	0.045	0.032
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Pyrene	0.64	mg/kg dw		2.12	30	1000	1400	mg/kg OC	0.03	0.021
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Pyrene	1	mg/kg dw		1.6	63	1000	1400	mg/kg OC	0.063	0.045
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Pyrene	1	mg/kg dw		1.76	57	1000	1400	mg/kg OC	0.057	0.041
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Pyrene	0.7	mg/kg dw		1.39	50	1000	1400	mg/kg OC	0.05	0.036
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Pyrene	3	mg/kg dw		1.78	170	1000	1400	mg/kg OC	0.17	0.12
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Pyrene	3.8	mg/kg dw		2.14	180	1000	1400	mg/kg OC	0.18	0.13
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Pyrene	4.4	mg/kg dw		2.29	190	1000	1400	mg/kg OC	0.19	0.14
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Pyrene	14	mg/kg dw		1.3	1100	1000	1400	mg/kg OC	1.1	0.79
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Pyrene	0.74	mg/kg dw		1.46	51	1000	1400	mg/kg OC	0.051	0.036
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Pyrene	0.76	mg/kg dw		2.24	34	1000	1400	mg/kg OC	0.034	0.024
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Pyrene	0.21	mg/kg dw		2.12	9.9	1000	1400	mg/kg OC	0.0099	0.0071
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Silver	0.24	mg/kg dw		1.8		6.1	6.1	mg/kg dw	0.039	0.039
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Silver	0.67	mg/kg dw		2.2		6.1	6.1	mg/kg dw	0.11	0.11
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Silver	0.34	mg/kg dw		0.7		6.1	6.1	mg/kg dw	0.056	0.056
c-4	1.6	4 to 12	Lone Star-Hardie Gypsum	1995	Silver	0.22	mg/kg dw		0.23		6.1	6.1	mg/kg dw	0.036	0.036
1	1.6	0 to 4	Hardie Gypsum-1	1998	Silver	0.58	mg/kg dw		1.3		6.1	6.1	mg/kg dw	0.095	0.095
2	1.6	0 to 4	Hardie Gypsum-1	1998	Silver	0.92	mg/kg dw		2.3		6.1	6.1	mg/kg dw	0.15	0.15
3	1.7	0 to 4	Hardie Gypsum-1	1998	Silver	0.97	mg/kg dw		2.1		6.1	6.1	mg/kg dw	0.16	0.16
A	1.6	0 to 3	Hardie Gypsum-2	1999	Silver	0.37	mg/kg dw		2.1		6.1	6.1	mg/kg dw	0.061	0.061
B	1.6	0 to 3	Hardie Gypsum-2	1999	Silver	0.23	mg/kg dw		1.9		6.1	6.1	mg/kg dw	0.038	0.038
C	1.7	0 to 3	Hardie Gypsum-2	1999	Silver	0.18	mg/kg dw		1.9		6.1	6.1	mg/kg dw	0.03	0.03
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Silver	0.41	mg/kg dw		1.9		6.1	6.1	mg/kg dw	0.067	0.067
3	1.7	0 to 3	Hardie Gypsum-2	1999	Silver	0.29	mg/kg dw		1.5		6.1	6.1	mg/kg dw	0.048	0.048
1	3.5	0 to 2	PSDDA98	1998	Silver	0.3	mg/kg dw		1.9		6.1	6.1	mg/kg dw	0.049	0.049
2	3.7	0 to 2	PSDDA98	1998	Silver	0.5	mg/kg dw		2.1		6.1	6.1	mg/kg dw	0.082	0.082
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Silver	1.9	mg/kg dw		2.24		6.1	6.1	mg/kg dw	0.31	0.31
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Silver	0.9	mg/kg dw		2.12		6.1	6.1	mg/kg dw	0.15	0.15
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Tetrachloroethene	5	ug/kg dw		1.9						
A	1.6	0 to 3	Hardie Gypsum-2	1999	Total aldrin/dieldrin (calc'd)	2.6	ug/kg dw		2.1						

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
B	1.6	0 to 3	Hardie Gypsum-2	1999	Total aldrin/dieldrin (calc'd)	2.2	ug/kg dw		1.9						
C	1.7	0 to 3	Hardie Gypsum-2	1999	Total aldrin/dieldrin (calc'd)	2.6	ug/kg dw		1.9						
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Total aldrin/dieldrin (calc'd)	2.8	ug/kg dw		1.9						
3	1.7	0 to 3	Hardie Gypsum-2	1999	Total aldrin/dieldrin (calc'd)	3.3	ug/kg dw		1.5						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Total HPAH (calc'd)	2.12	mg/kg dw		1.8	120	960	5300	mg/kg OC	0.13	0.023
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Total HPAH (calc'd)	3.39	mg/kg dw		2.2	150	960	5300	mg/kg OC	0.16	0.028
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Total HPAH (calc'd)	0.515	mg/kg dw		0.7	74	960	5300	mg/kg OC	0.077	0.014
1	1.6	0 to 4	Hardie Gypsum-1	1998	Total HPAH (calc'd)	1.15	mg/kg dw		1.3	88	960	5300	mg/kg OC	0.092	0.017
2	1.6	0 to 4	Hardie Gypsum-1	1998	Total HPAH (calc'd)	1.85	mg/kg dw		2.3	80	960	5300	mg/kg OC	0.083	0.015
3	1.7	0 to 4	Hardie Gypsum-1	1998	Total HPAH (calc'd)	2.07	mg/kg dw		2.1	99	960	5300	mg/kg OC	0.1	0.019
A	1.6	0 to 3	Hardie Gypsum-2	1999	Total HPAH (calc'd)	1.26	mg/kg dw		2.1	60	960	5300	mg/kg OC	0.063	0.011
B	1.6	0 to 3	Hardie Gypsum-2	1999	Total HPAH (calc'd)	3.9	mg/kg dw		1.9	210	960	5300	mg/kg OC	0.22	0.04
C	1.7	0 to 3	Hardie Gypsum-2	1999	Total HPAH (calc'd)	9.4	mg/kg dw		1.9	490	960	5300	mg/kg OC	0.51	0.092
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Total HPAH (calc'd)	2.5	mg/kg dw		1.9	130	960	5300	mg/kg OC	0.14	0.025
3	1.7	0 to 3	Hardie Gypsum-2	1999	Total HPAH (calc'd)	1.16	mg/kg dw		1.5	77	960	5300	mg/kg OC	0.08	0.015
1	3.5	0 to 2	PSDDA98	1998	Total HPAH (calc'd)	0.43	mg/kg dw		1.9	23	960	5300	mg/kg OC	0.024	0.0043
2	3.7	0 to 2	PSDDA98	1998	Total HPAH (calc'd)	1.2	mg/kg dw		2.1	60	960	5300	mg/kg OC	0.063	0.011
3	3.9	0 to 2	PSDDA98	1998	Total HPAH (calc'd)	0.9	mg/kg dw		2.2	40	960	5300	mg/kg OC	0.042	0.0075
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	0.183	mg/kg dw	J	0.541	34	960	5300	mg/kg OC	0.035	0.0064
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	2.55	mg/kg dw		2.52	100	960	5300	mg/kg OC	0.1	0.019
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	2.05	mg/kg dw	J	2.18	94	960	5300	mg/kg OC	0.098	0.018
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	3.33	mg/kg dw	J	2.17	150	960	5300	mg/kg OC	0.16	0.028
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	4.84	mg/kg dw	J	2.05	240	960	5300	mg/kg OC	0.25	0.045
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	2.57	mg/kg dw	J	2.12	120	960	5300	mg/kg OC	0.13	0.023
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	4.2	mg/kg dw	J	1.6	260	960	5300	mg/kg OC	0.27	0.049
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	4.2	mg/kg dw	J	1.76	240	960	5300	mg/kg OC	0.25	0.045
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	2.8	mg/kg dw	J	1.39	200	960	5300	mg/kg OC	0.21	0.038
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	10.9	mg/kg dw		1.78	610	960	5300	mg/kg OC	0.64	0.12
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	31.5	mg/kg dw	J	2.14	1500	960	5300	mg/kg OC	1.6	0.28
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	25	mg/kg dw		2.29	1100	960	5300	mg/kg OC	1.1	0.21
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	64	mg/kg dw		1.3	4900	960	5300	mg/kg OC	5.1	0.92
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	2.47	mg/kg dw		1.46	170	960	5300	mg/kg OC	0.18	0.032
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	2.44	mg/kg dw		2.24	110	960	5300	mg/kg OC	0.11	0.021
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Total HPAH (calc'd)	0.79	mg/kg dw		2.12	37	960	5300	mg/kg OC	0.039	0.007
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Total LPAH (calc'd)	0.16	mg/kg dw		1.8	8.9	370	780	mg/kg OC	0.024	0.011
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Total LPAH (calc'd)	0.38	mg/kg dw		2.2	17	370	780	mg/kg OC	0.046	0.022
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Total LPAH (calc'd)	0.027	mg/kg dw		0.7	3.9	370	780	mg/kg OC	0.011	0.005
1	1.6	0 to 4	Hardie Gypsum-1	1998	Total LPAH (calc'd)	0.097	mg/kg dw		1.3	7.5	370	780	mg/kg OC	0.02	0.0096
2	1.6	0 to 4	Hardie Gypsum-1	1998	Total LPAH (calc'd)	0.19	mg/kg dw		2.3	8.3	370	780	mg/kg OC	0.022	0.011
3	1.7	0 to 4	Hardie Gypsum-1	1998	Total LPAH (calc'd)	0.109	mg/kg dw		2.1	5.2	370	780	mg/kg OC	0.014	0.0067
A	1.6	0 to 3	Hardie Gypsum-2	1999	Total LPAH (calc'd)	0.11	mg/kg dw		2.1	5.2	370	780	mg/kg OC	0.014	0.0067
B	1.6	0 to 3	Hardie Gypsum-2	1999	Total LPAH (calc'd)	1.66	mg/kg dw		1.9	87	370	780	mg/kg OC	0.24	0.11
C	1.7	0 to 3	Hardie Gypsum-2	1999	Total LPAH (calc'd)	3	mg/kg dw		1.9	160	370	780	mg/kg OC	0.43	0.21
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Total LPAH (calc'd)	0.51	mg/kg dw		1.9	27	370	780	mg/kg OC	0.073	0.035
3	1.7	0 to 3	Hardie Gypsum-2	1999	Total LPAH (calc'd)	0.1	mg/kg dw		1.5	6.7	370	780	mg/kg OC	0.018	0.0086
1	3.5	0 to 2	PSDDA98	1998	Total LPAH (calc'd)	0.075	mg/kg dw		1.9	3.9	370	780	mg/kg OC	0.011	0.005
2	3.7	0 to 2	PSDDA98	1998	Total LPAH (calc'd)	0.072	mg/kg dw		2.1	3.4	370	780	mg/kg OC	0.0092	0.0044
3	3.9	0 to 2	PSDDA98	1998	Total LPAH (calc'd)	0.055	mg/kg dw		2.2	2.5	370	780	mg/kg OC	0.0068	0.0032
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.015	mg/kg dw	J	0.541	2.8	370	780	mg/kg OC	0.0076	0.0036
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.21	mg/kg dw		2.52	8.3	370	780	mg/kg OC	0.022	0.011
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.15	mg/kg dw	J	2.18	6.9	370	780	mg/kg OC	0.019	0.0088
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.23	mg/kg dw		2.17	11	370	780	mg/kg OC	0.03	0.014
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.38	mg/kg dw	J	2.05	19	370	780	mg/kg OC	0.051	0.024
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.17	mg/kg dw		2.12	8	370	780	mg/kg OC	0.022	0.01
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.66	mg/kg dw	J	1.6	41	370	780	mg/kg OC	0.11	0.053

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.59	mg/kg dw	J	1.76	34	370	780	mg/kg OC	0.092	0.044
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	1.35	mg/kg dw		1.39	97	370	780	mg/kg OC	0.26	0.12
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	2.7	mg/kg dw	J	1.78	150	370	780	mg/kg OC	0.41	0.19
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	3.5	mg/kg dw		2.14	160	370	780	mg/kg OC	0.43	0.21
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	4.5	mg/kg dw	J	2.29	200	370	780	mg/kg OC	0.54	0.26
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	25	mg/kg dw		1.3	1900	370	780	mg/kg OC	5.1	2.4
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.2	mg/kg dw	J	1.46	14	370	780	mg/kg OC	0.038	0.018
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.23	mg/kg dw		2.24	10	370	780	mg/kg OC	0.027	0.013
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Total LPAH (calc'd)	0.106	mg/kg dw	J	2.12	5	370	780	mg/kg OC	0.014	0.0064
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Total PAH (calc'd)	2280	ug/kg dw		1.8						
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Total PAH (calc'd)	3770	ug/kg dw		2.2						
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Total PAH (calc'd)	542	ug/kg dw		0.7						
1	1.6	0 to 4	Hardie Gypsum-1	1998	Total PAH (calc'd)	1250	ug/kg dw		1.3						
2	1.6	0 to 4	Hardie Gypsum-1	1998	Total PAH (calc'd)	2040	ug/kg dw		2.3						
3	1.7	0 to 4	Hardie Gypsum-1	1998	Total PAH (calc'd)	2180	ug/kg dw		2.1						
A	1.6	0 to 3	Hardie Gypsum-2	1999	Total PAH (calc'd)	1370	ug/kg dw		2.1						
B	1.6	0 to 3	Hardie Gypsum-2	1999	Total PAH (calc'd)	5600	ug/kg dw		1.9						
C	1.7	0 to 3	Hardie Gypsum-2	1999	Total PAH (calc'd)	12400	ug/kg dw		1.9						
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Total PAH (calc'd)	3010	ug/kg dw		1.9						
3	1.7	0 to 3	Hardie Gypsum-2	1999	Total PAH (calc'd)	1260	ug/kg dw		1.5						
1	3.5	0 to 2	PSDDA98	1998	Total PAH (calc'd)	510	ug/kg dw		1.9						
2	3.7	0 to 2	PSDDA98	1998	Total PAH (calc'd)	1200	ug/kg dw		2.1						
3	3.9	0 to 2	PSDDA98	1998	Total PAH (calc'd)	1000	ug/kg dw		2.2						
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	198	ug/kg dw	J	0.541						
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	2760	ug/kg dw		2.52						
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	2190	ug/kg dw	J	2.18						
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	3560	ug/kg dw	J	2.17						
LDW-SC23	1.2	0 to 1	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	5230	ug/kg dw	J	2.05						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	2730	ug/kg dw	J	2.12						
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	4800	ug/kg dw	J	1.6						
LDW-SC23	1.2	1 to 2	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	4800	ug/kg dw	J	1.76						
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	4200	ug/kg dw	J	1.39						
LDW-SC23	1.2	2 to 3	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	13500	ug/kg dw	J	1.78						
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	34900	ug/kg dw	J	2.14						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	30000	ug/kg dw	J	2.29						
LDW-SC23	1.2	3 to 4	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	89000	ug/kg dw		1.3						
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	2670	ug/kg dw	J	1.46						
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	2670	ug/kg dw		2.24						
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Total PAH (calc'd)	900	ug/kg dw	J	2.12						
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Tributyltin as ion	46	ug/kg dw		2.52						
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Tributyltin as ion	49	ug/kg dw		2.18						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Tributyltin as ion	55	ug/kg dw		2.12						
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Tributyltin as ion	47	ug/kg dw		2.14						
LDW-SC23	1.2	4 to 6	LDW Subsurface Sediment 2006	2006	Tributyltin as ion	27	ug/kg dw		1.46						
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Trichloroethene	5	ug/kg dw		1.9						
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Vanadium	45.6	mg/kg dw		0.541						
LDW-SC30	1.6	3 to 4	LDW Subsurface Sediment 2006	2006	Vanadium	43	mg/kg dw		0.271						
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Vanadium	75.2	mg/kg dw		2.52						
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Vanadium	68	mg/kg dw		2.18						
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	Vanadium	36.1	mg/kg dw		0.11						
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Vanadium	65	mg/kg dw		2.12						
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Vanadium	71.5	mg/kg dw		2.14						
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Vanadium	73.4	mg/kg dw		2.24						
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Vanadium	67.5	mg/kg dw		2.12						
c-2	1.7	0 to 5	Lone Star-Hardie Gypsum	1995	Zinc	180	mg/kg dw		1.8		410	960	mg/kg dw	0.44	0.19

Table A-2
Contaminants Detected in Subsurface Sediment
RM 1.2-1.7 East

Sample Location Name	Sample River Mile Location	Sample Depth Interval (feet)	Sampling Event	Sampling Event Year	Contaminant	Concentration Value	Concentration Units		TOC % DW	Concentration (mg/kg OC)	SQS[1]	CSL[1]	SQS/CSL Units	SQS Exceedance Factor[2]	CSL Exceedance Factor[2]
c-3	1.6	0 to 5	Lone Star-Hardie Gypsum	1995	Zinc	270	mg/kg dw		2.2		410	960	mg/kg dw	0.66	0.28
c-4	1.6	0 to 4	Lone Star-Hardie Gypsum	1995	Zinc	99	mg/kg dw		0.7		410	960	mg/kg dw	0.24	0.1
c-4	1.6	4 to 12	Lone Star-Hardie Gypsum	1995	Zinc	65	mg/kg dw		0.23		410	960	mg/kg dw	0.16	0.068
1	1.6	0 to 4	Hardie Gypsum-1	1998	Zinc	82	mg/kg dw		1.3		410	960	mg/kg dw	0.2	0.085
2	1.6	0 to 4	Hardie Gypsum-1	1998	Zinc	160	mg/kg dw		2.3		410	960	mg/kg dw	0.39	0.17
3	1.7	0 to 4	Hardie Gypsum-1	1998	Zinc	120	mg/kg dw		2.1		410	960	mg/kg dw	0.29	0.13
A	1.6	0 to 3	Hardie Gypsum-2	1999	Zinc	120	mg/kg dw		2.1		410	960	mg/kg dw	0.29	0.13
B	1.6	0 to 3	Hardie Gypsum-2	1999	Zinc	96	mg/kg dw		1.9		410	960	mg/kg dw	0.23	0.1
C	1.7	0 to 3	Hardie Gypsum-2	1999	Zinc	160	mg/kg dw		1.9		410	960	mg/kg dw	0.39	0.17
2b	1.6	0 to 3	Hardie Gypsum-2	1999	Zinc	140	mg/kg dw		1.9		410	960	mg/kg dw	0.34	0.15
3	1.7	0 to 3	Hardie Gypsum-2	1999	Zinc	110	mg/kg dw		1.5		410	960	mg/kg dw	0.27	0.11
1	3.5	0 to 2	PSDDA98	1998	Zinc	75.2	mg/kg dw		1.9		410	960	mg/kg dw	0.18	0.078
2	3.7	0 to 2	PSDDA98	1998	Zinc	91.4	mg/kg dw		2.1		410	960	mg/kg dw	0.22	0.095
3	3.9	0 to 2	PSDDA98	1998	Zinc	97.8	mg/kg dw		2.2		410	960	mg/kg dw	0.24	0.1
LDW-SC30	1.6	0 to 2	LDW Subsurface Sediment 2006	2006	Zinc	27.3	mg/kg dw		0.541		410	960	mg/kg dw	0.067	0.028
LDW-SC30	1.6	3 to 4	LDW Subsurface Sediment 2006	2006	Zinc	20.5	mg/kg dw		0.271		410	960	mg/kg dw	0.05	0.021
LDW-SC31	1.7	0 to 1	LDW Subsurface Sediment 2006	2006	Zinc	139	mg/kg dw		2.52		410	960	mg/kg dw	0.34	0.14
LDW-SC31	1.7	1 to 3	LDW Subsurface Sediment 2006	2006	Zinc	131	mg/kg dw		2.18		410	960	mg/kg dw	0.32	0.14
LDW-SC31	1.7	3 to 4	LDW Subsurface Sediment 2006	2006	Zinc	18.5	mg/kg dw		0.11		410	960	mg/kg dw	0.045	0.019
LDW-SC23	1.2	0 to 2	LDW Subsurface Sediment 2006	2006	Zinc	122	mg/kg dw	J	2.12		410	960	mg/kg dw	0.3	0.13
LDW-SC23	1.2	2 to 4	LDW Subsurface Sediment 2006	2006	Zinc	159	mg/kg dw	J	2.14		410	960	mg/kg dw	0.39	0.17
LDW-SC27	1.4	0 to 2	LDW Subsurface Sediment 2006	2006	Zinc	190	mg/kg dw		2.24		410	960	mg/kg dw	0.46	0.2
LDW-SC27	1.4	2 to 4	LDW Subsurface Sediment 2006	2006	Zinc	103	mg/kg dw		2.12		410	960	mg/kg dw	0.25	0.11

Key:
DW - Dry weight
CSL - Cleanup Screening Level
OC - Organic carbon
TOC - Total organic carbon
SQS - Sediment Quality Standard

Notes:
1. SQS and CSL values are substituted with AET values for dry weight comparison where organic compounds are not OC-normalized (when TOC % DW is outside of the 0.5-4.0% range).
2. Exceedance factors are the ratio of the detected concentration to the CSL or SQS (or to AET values where applicable); chemicals with one or more exceedance factors greater than 1 are highlighted.

Source:
Lower Duwamish Waterway Group, 2007. Online Lower Duwamish Waterway Group Draft Remedial Investigation Report (November 2007) Database. http://www.ldwg.org.