Appendix D

Analytical Results for Sediment by Location

TABLE D-1 SUMMARY OF RESULTS BY LOCATION (SLB01)
ST. LOUIS BAY

				Location ID:	SW15-SLB01					
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8	8-10
				TOC (mg/kg):	23000 J	47300 J	53800 J	62700 J	54900 J	51200 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**						
PCB AROCLORS										
Total PCBs (ND=0)	60	368	676	ug/kg	0	14	17	NS	NS	NS
PAHS										
2-Methylnaphthalene	20.2	111	201	ug/kg	**48**	**56 J**	**160 J**	**110 J**	**87 J**	**72 J**
Acenaphthene	6.7	48	89	ug/kg	**7.2 J**	**14 J**	280 U	240 U	110 U	100 U
Acenaphthylene	5.9	67	128	ug/kg	27 U	59 U	280 U	240 U	110 U	100 U
Anthracene	57.2	451	845	ug/kg	40	**60**	**150 J**	**140 J**	**98 J**	**80 J**
Benzo(a)anthracene	108	579	1050	ug/kg	85	**200**	**490**	**490**	**320**	**260**
Benzo(a)pyrene	150	800	1450	ug/kg	65	**180**	**430**	**440**	**290**	**230**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	110	**250**	**580**	**580**	**370**	**290**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	55	130	**300**	**260**	**180**	150
Benzo(k)fluoranthene	240	6820	13400	ug/kg	36	88	200 J	200 J	130	130
Chrysene	166	728	1290	ug/kg	97	**200**	**480**	**470**	**290**	**240**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	18 J	**42 J**	**91 J**	**78 J**	**53 J**	**47 J**
Fluoranthene	423	1327	2230	ug/kg	180	320	**820**	**780**	**520**	**440**
Fluorene	77.4	307	536	ug/kg	20 J	29 J	67 J	54 J	48 J	34 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	51	120	**280**	**250**	180	150
Naphthalene	176	369	561	ug/kg	54	85	**220 J**	**230 J**	**180**	150
Phenanthrene	204	687	1170	ug/kg	82	140	**340**	**280**	**210**	170
Pyrene	195	858	1520	ug/kg	180	**350**	**800**	**820**	**540**	**460**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	1141.7	**2293.5**	**5688**	**5422**	**3606**	**3003**
METALS										
Antimony	2	13.5	25	mg/kg	6.6 UJ	8.9 UJ	9.5 UJ	7.7 UJ	0.43 J	7.5 UJ
Arsenic	9.8	21.4	33	mg/kg	3	3.7	4.3	4.8	4.3	4.3
Cadmium	0.99	3	5	mg/kg	0.23 J	0.49 J	0.62 J	0.71 J	0.68 J	0.65 J
Chromium	43	76.5	110	mg/kg	14.2	22.7	24.3	28.9	26.9	26.5
Copper	32	91	150	mg/kg	8.2	16.1	18.1	22.5	20.3	20.6
Iron	20000	30000	40000	mg/kg	14600	**20200**	**22600**	**26200**	**23700**	**24200**
Lead	36	83	130	mg/kg	6.8	18.4	25.7	29.2	25.4	25.7
Manganese	460	780	1100	mg/kg	419	404	392	**475**	**468**	**461**
Mercury	0.18	0.64	1.1	mg/kg	0.15 U	0.087 J	0.11 J	**0.19**	0.17	0.15 J
Nickel	23	36	49	mg/kg	10.6	17.3	18.3	20.7	19.4	19.4
Silver	1.6	1.9	2.2	mg/kg	1.1 U	1.5 U	1.6 U	1.3 U	1.2 U	1.3 U
Zinc	120	290	460	mg/kg	38.6	82.5	119	**129**	111	113

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-2 SUMMARY OF RESULTS BY LOCATION (SLB02)
ST. LOUIS BAY

				Location ID:	SW15-SLB02				
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8
				TOC (mg/kg):	81500 J	3730 J	1540 J	NS	NS
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
PCB AROCLORS									
Total PCBs (ND=0)	60	368	676	ug/kg	11	0	0	NS	NS
PAHS									
2-Methylnaphthalene	20.2	111	201	ug/kg	**410**	4.1 U	4.1 U	4.1 U	3.9 U
Acenaphthene	6.7	48	89	ug/kg	**99 J**	4.1 U	4.1 U	4.1 U	3.9 U
Acenaphthylene	5.9	67	128	ug/kg	160 U	4.1 U	4.1 U	4.1 U	3.9 U
Anthracene	57.2	451	845	ug/kg	**270**	4.1 U	4.1 U	4.1 U	3.9 U
Benzo(a)anthracene	108	579	1050	ug/kg	**800**	1.3 J	4.1 U	4.1 U	3.9 U
Benzo(a)pyrene	150	800	1450	ug/kg	**610**	4.1 U	4.1 U	4.1 U	3.9 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**920**	3.5 J	1.3 J	1.3 J	0.63 J
Benzo(e)pyrene	150	800	1450	ug/kg	**540**	4.1 U	4.1 U	4.1 U	3.9 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**420**	1.5 J	4.1 U	4.1 U	3.9 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**310**	0.76 J	4.1 U	4.1 U	3.9 U
Chrysene	166	728	1290	ug/kg	**780**	1.4 J	4.1 U	4.1 U	3.9 U
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**140 J**	4.1 U	4.1 U	4.1 U	3.9 U
Fluoranthene	423	1327	2230	ug/kg	**1300**	1.6 J	4.1 U	4.1 U	3.9 U
Fluorene	77.4	307	536	ug/kg	**150 J**	4.1 U	4.1 U	4.1 U	3.9 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**320**	1.3 J	4.1 U	4.1 U	3.9 U
Naphthalene	176	369	561	ug/kg	**290**	4.1 U	4.1 U	4.1 U	3.9 U
Phenanthrene	204	687	1170	ug/kg	**1200**	1.8 J	4.1 U	4.1 U	3.9 U
Pyrene	195	858	1520	ug/kg	**1400**	2.5 J	4.1 U	4.1 U	3.9 U
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**9499**	32.06	34.1	34.1	31.83
METALS									
Antimony	2	13.5	25	mg/kg	12 UJ	6 UJ	5.9 UJ	6.3 UJ	7.1 UJ
Arsenic	9.8	21.4	33	mg/kg	6.4	3.5	2.3	1.9	1.9
Cadmium	0.99	3	5	mg/kg	0.69 J	0.3 J	0.31 J	0.22 J	0.26 J
Chromium	43	76.5	110	mg/kg	28.3	14.9	14.4	10.5	9
Copper	32	91	150	mg/kg	22.1	13.5	13.7	8.2	5.7
Iron	20000	30000	40000	mg/kg	**28700**	14800	11900	9860	9010
Lead	36	83	130	mg/kg	17.3	4.5	4.6	3.2	2.5
Manganese	460	780	1100	mg/kg	**720**	360	415	244	196
Mercury	0.18	0.64	1.1	mg/kg	0.23 U	0.11 U	0.12 U	0.12 U	0.11 U
Nickel	23	36	49	mg/kg	22.4	13.9	13.1	10	8.2
Silver	1.6	1.9	2.2	mg/kg	2 U	1 U	0.99 U	1 U	1.2 U
Zinc	120	290	460	mg/kg	90.3	27.9	27.5	19.1	15.6
VOCS									
Benzene	57	83.5	110	ug/kg	970 U	330 U	350 U	NS	NS
Xylene	25	37.5	50	ug/kg	1940 U	660 U	700 U	NS	NS

TABLE D-2 SUMMARY OF RESULTS BY LOCATION (SLB02)
ST. LOUIS BAY

				Location ID:	SW15-SLB02				
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8
				TOC (mg/kg):	81500 J	3730 J	1540 J	NS	NS
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
SVOCS									
Dibenzofuran	150	365	580	ug/kg	140 J	210 U	210 U	210 U	200 U

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-3 SUMMARY OF RESULTS BY LOCATION (SLB03)
ST. LOUIS BAY

				Location ID:	SW15-SLB03					
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8	8-10
				TOC (mg/kg):	339000 J	475000 J	439000 J	368000 J	279000 J	269000 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**						
PCB AROCLORS										
Total PCBs (ND=0)	60	368	676	ug/kg	0	19	24	9.4	**100 a**	0
PAHS										
2-Methylnaphthalene	20.2	111	201	ug/kg	**1700**	**4700**	**7300**	**7900**	**4700**	**9500**
Acenaphthene	6.7	48	89	ug/kg	**130**	**740**	**750 J**	**810 J**	**330 J**	**710 J**
Acenaphthylene	5.9	67	128	ug/kg	**37 J**	**210 J**	1300 U	**420 J**	**440 J**	**270 J**
Anthracene	57.2	451	845	ug/kg	**130 J**	**700**	**760 J**	**360 J**	1100 U	1000 U
Benzo(a)anthracene	108	579	1050	ug/kg	**560**	**1300**	**1600**	**1000 J**	**480 J**	**590 J**
Benzo(a)pyrene	150	800	1450	ug/kg	**610**	**1200**	**1100 J**	**650 J**	**310 J**	**500 J**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**570 J**	**1300**	**1600**	**1100 J**	**500 J**	**730 J**
Benzo(e)pyrene	150	800	1450	ug/kg	**670 J**	**1700**	**1800**	1400 U	1100 U	1000 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**500**	**1200**	**1500**	**810 J**	**360 J**	**410 J**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**420**	**300 J**	**420 J**	**320 J**	160 J	**250 J**
Chrysene	166	728	1290	ug/kg	**640 J**	**1700**	**2000**	**1200 J**	**640 J**	**730 J**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**170**	**230 J**	**260 J**	1400 U	1100 U	1000 U
Fluoranthene	423	1327	2230	ug/kg	**840 J**	**1600**	**2600**	**1700**	**760 J**	**1000**
Fluorene	77.4	307	536	ug/kg	**290**	**1200**	**1100 J**	**1100 J**	**510 J**	**670 J**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**310 J**	**480 J**	**700 J**	**410 J**	1100 U	**270 J**
Naphthalene	176	369	561	ug/kg	**620**	**1800**	**3100**	**2600**	**1400**	**1700**
Phenanthrene	204	687	1170	ug/kg	**1000 J**	**5500**	**5500**	**3900**	**2100**	**1500**
Pyrene	195	858	1520	ug/kg	**840 J**	**2700**	**3100**	**1900**	**940 J**	**1100**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**9367**	**26860**	**34040**	**26880**	**15280**	**20930**
METALS										
Antimony	2	13.5	25	mg/kg	0.62 J	1.4 J	1.7 J	1.2 J	0.33 J	0.39 J
Arsenic	9.8	21.4	33	mg/kg	**10.5**	**61.5**	**52.8**	**39.5**	7.8	7.4
Cadmium	0.99	3	5	mg/kg	**1.1 J**	**1.7 J**	**1.7 J**	**1.3 J**	0.69 J	0.55 J
Chromium	43	76.5	110	mg/kg	23.7	17.1	18.3	20	19.7	17.9
Copper	32	91	150	mg/kg	**37**	**65.4**	**40.5**	**35**	20.4	18.4
Iron	20000	30000	40000	mg/kg	**26400**	**54900**	**49500**	**32500**	**20400**	18000
Lead	36	83	130	mg/kg	**62**	**179**	**118**	**98.3**	**61.2**	35.2
Manganese	460	780	1100	mg/kg	338	205	259	278	248	237
Mercury	0.18	0.64	1.1	mg/kg	0.057 J	0.12 J	0.13 J	0.13 J	0.16 U	0.047 J
Nickel	23	36	49	mg/kg	19.4	15.7	14.3	18.2	16.3	14.6
Silver	1.6	1.9	2.2	mg/kg	0.12 J	0.19 J	0.13 J	1.8 U	1.4 U	1.2 U
Zinc	120	290	460	mg/kg	**185**	**201**	**207**	**209**	**143**	108
VOCS										
Benzene	57	83.5	110	ug/kg	2600 U	**510 J**	1500 U	640 U	550 U	490 U
Xylene	25	37.5	50	ug/kg	**3240**	**1790**	**1750**	**780**	**390**	**229**

TABLE D-3 SUMMARY OF RESULTS BY LOCATION (SLB03)
ST. LOUIS BAY

				Location ID:	SW15-SLB03					
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8	8-10
				TOC (mg/kg):	339000 J	475000 J	439000 J	368000 J	279000 J	269000 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**						
SVOCS										
Dibenzofuran	150	365	580	ug/kg	**300 J**	**930 J+**	560 U	620 UJ	340 UJ	650 UJ

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-4 SUMMARY OF RESULTS BY LOCATION (SLB04)
ST. LOUIS BAY

				Location ID:	SW15-SLB04	
				Depth Interval (feet):	0-0.5	0.5-2
				TOC (mg/kg):	49400	27000
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**		
PCB AROCLORS						
Total PCBs (ND=0)	60	368	676	ug/kg	0	19.7
PAHS						
2-Methylnaphthalene	20.2	111	201	ug/kg	**27 J**	**100 J**
Acenaphthene	6.7	48	89	ug/kg	**19 J**	**140 J**
Acenaphthylene	5.9	67	128	ug/kg	34 U	**14 J**
Anthracene	57.2	451	845	ug/kg	48	**310**
Benzo(a)anthracene	108	579	1050	ug/kg	**150**	**570**
Benzo(a)pyrene	150	800	1450	ug/kg	120	**470**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	160	**410**
Benzo(e)pyrene	150	800	1450	ug/kg	110	**300**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	67	**240**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	120	**390**
Chrysene	166	728	1290	ug/kg	150	**560**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	31 J	**120 J**
Fluoranthene	423	1327	2230	ug/kg	**440**	**1300**
Fluorene	77.4	307	536	ug/kg	40	**150**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	78	**240**
Naphthalene	176	369	561	ug/kg	43	100 J
Phenanthrene	204	687	1170	ug/kg	**230**	**1300**
Pyrene	195	858	1520	ug/kg	**240**	**1100**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**1980**	**7514**
METALS						
Antimony	2	13.5	25	mg/kg	9.3 UJ	7.4 UJ
Arsenic	9.8	21.4	33	mg/kg	4.7	4
Cadmium	0.99	3	5	mg/kg	0.77 U1	0.62 U1
Chromium	43	76.5	110	mg/kg	22.8 J	24 J
Copper	32	91	150	mg/kg	15.7	21.6
Iron	20000	30000	40000	mg/kg	**20700 J**	**21700 J**
Lead	36	83	130	mg/kg	10.8	23
Manganese	460	780	1100	mg/kg	**595**	364
Mercury	0.18	0.64	1.1	mg/kg	0.065 J	0.053 J
Nickel	23	36	49	mg/kg	15.9	18.1
Silver	1.6	1.9	2.2	mg/kg	1.5 U	1.2 U
Zinc	120	290	460	mg/kg	65.7	76.4

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-5 SUMMARY OF RESULTS BY LOCATION (SLB05)
ST. LOUIS BAY

				Location ID:	SW15-SLB05			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	44200	36500 J	44500	5830
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	13	50	**198**	NS
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	370 U	**180 J**	**170 J**	**27 J**
Acenaphthene	6.7	48	89	ug/kg	**130 J**	**370 J**	**430 J**	**68 J**
Acenaphthylene	5.9	67	128	ug/kg	**120 J**	590 U	1100 U	82 U
Anthracene	57.2	451	845	ug/kg	**820**	**990**	**2000**	**110**
Benzo(a)anthracene	108	579	1050	ug/kg	**1800**	**1700**	**4100**	**260**
Benzo(a)pyrene	150	800	1450	ug/kg	**1300**	**1300**	**2400**	**170**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**1300**	**1800**	**2100**	220
Benzo(e)pyrene	150	800	1450	ug/kg	**800**	**860**	**1600**	140
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**550**	**720**	**1200**	87
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**1200**	**730**	**2500**	180
Chrysene	166	728	1290	ug/kg	**1500**	**2000**	**3500**	**260**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**190 J**	**200 J**	**380 J**	**35 J**
Fluoranthene	423	1327	2230	ug/kg	**3900**	**4600**	**8100**	**870**
Fluorene	77.4	307	536	ug/kg	**210 J**	**560 J**	**630 J**	72 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**620**	**630**	**1200**	82
Naphthalene	176	369	561	ug/kg	68 J	**260 J**	**230 J**	35 J
Phenanthrene	204	687	1170	ug/kg	**1600**	**4400**	**5200**	**560**
Pyrene	195	858	1520	ug/kg	**2100**	**5000**	**5700**	**560**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**17593**	**25735**	**40390**	**3637**
METALS								
Antimony	2	13.5	25	mg/kg	0.51 J	7.6 UJ	0.52 J	5.7 UJ
Arsenic	9.8	21.4	33	mg/kg	4.5	4.2	4.4	1.9
Cadmium	0.99	3	5	mg/kg	0.99 U1	0.53 J	0.75 U1	0.48 U1
Chromium	43	76.5	110	mg/kg	25.9	22.9	19.5	7
Copper	32	91	150	mg/kg	28.3	**32.6**	**42.9**	7.7
Iron	20000	30000	40000	mg/kg	**22300**	19600	16100	7300
Lead	36	83	130	mg/kg	28.9	**52.2**	**50.9**	4
Manganese	460	780	1100	mg/kg	**575**	326	255	218
Mercury	0.18	0.64	1.1	mg/kg	0.16 J-	0.13 J	**0.2**	0.12 UJ
Nickel	23	36	49	mg/kg	21.9	17.3	16.7	8.5
Silver	1.6	1.9	2.2	mg/kg	2 U	1.3 U	0.14 J	0.96 U
Zinc	120	290	460	mg/kg	104	119	**175**	26.5
PESTICIDES								
Dieldrin	1.9	32	62	ug/kg	7.7 U	0.92 J	NS	NS
Total DDT	5.3	289	572	ug/kg	**24.4 J**	**30.2 J**	NS	NS
ORGANOTINS								
Tributyltin	0.52	1.73	2.94	ug/kg	**14**	**23**	NS	NS

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-6 SUMMARY OF RESULTS BY LOCATION (SLB06)
ST. LOUIS BAY

				Location ID:	SW15-SLB06			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	100000	64600	60000	68400
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	17	30	40	NS
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	**69 J**	**120 J**	**490 J**	**1400**
Acenaphthene	6.7	48	89	ug/kg	**140**	**200 J**	**820**	**4800**
Acenaphthylene	5.9	67	128	ug/kg	**23 J**	**27 J**	**63 J**	**120 J**
Anthracene	57.2	451	845	ug/kg	**190**	**350**	**1400**	**1700**
Benzo(a)anthracene	108	579	1050	ug/kg	**370**	**730**	**2700**	**2300**
Benzo(a)pyrene	150	800	1450	ug/kg	**310**	**600**	**2000**	**2000**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**420**	**650**	**2000**	**1700**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	130 J	**250**	**1000**	**710**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**330**	**640**	**2200**	**1900**
Chrysene	166	728	1290	ug/kg	**530**	**940**	**2900**	**2600**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**49 J**	**98 J**	**400 J**	**280 J**
Fluoranthene	423	1327	2230	ug/kg	**1400**	**2300**	**7800**	**6600**
Fluorene	77.4	307	536	ug/kg	**240**	**350**	**1000**	**3200**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	140	**270**	**1100**	**750**
Naphthalene	176	369	561	ug/kg	90 J	150 J	**600**	**2100**
Phenanthrene	204	687	1170	ug/kg	**510**	**1300**	**6400**	**8800**
Pyrene	195	858	1520	ug/kg	**900**	**1500**	**5600**	**5000**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**5841**	**10475**	**38473**	**45960**
METALS								
Antimony	2	13.5	25	mg/kg	13.7 UJ	0.49 J	0.75 J	**2.2 J**
Arsenic	9.8	21.4	33	mg/kg	5.4	5.7	5	6
Cadmium	0.99	3	5	mg/kg	1.1 U1	**1.1 J+**	**1 J+**	**1.4 J+**
Chromium	43	76.5	110	mg/kg	37.4	33.3	26.4	23.7
Copper	32	91	150	mg/kg	**43.7**	**59.7**	**58**	**85.8**
Iron	20000	30000	40000	mg/kg	**32500**	**24800**	**21800**	**22400**
Lead	36	83	130	mg/kg	27.2	**51.1**	**72.5**	**115**
Manganese	460	780	1100	mg/kg	**629**	**463**	337	290
Mercury	0.18	0.64	1.1	mg/kg	0.095 J-	0.21 UJ	**0.34**	**0.45**
Nickel	23	36	49	mg/kg	**29.4**	**27.1**	21.7	19.9
Silver	1.6	1.9	2.2	mg/kg	2.3 U	0.27 J	0.29 J	0.26 J
Zinc	120	290	460	mg/kg	**136**	**203**	**221**	**408**
PESTICIDES								
Dieldrin	1.9	32	62	ug/kg	9.4 U	72 UJ	NS	NS
Total DDT	5.3	289	572	ug/kg	**121.2 J**	**271 J**	NS	NS

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Red = Exceeds PEC

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-7 SUMMARY OF RESULTS BY LOCATION (SLB07)
ST. LOUIS BAY

				Location ID:	SW15-SLB07
				Depth Interval (feet):	0-0.5
				TOC (mg/kg):	24500
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**	
PCB AROCLORS					
Total PCBs (ND=0)	60	368	676	ug/kg	6
PAHS					
2-Methylnaphthalene	20.2	111	201	ug/kg	**64 J**
Acenaphthene	6.7	48	89	ug/kg	**260**
Acenaphthylene	5.9	67	128	ug/kg	110 U
Anthracene	57.2	451	845	ug/kg	**290**
Benzo(a)anthracene	108	579	1050	ug/kg	**380**
Benzo(a)pyrene	150	800	1450	ug/kg	**310**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**330**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	120
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**350**
Chrysene	166	728	1290	ug/kg	**470**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**54 J**
Fluoranthene	423	1327	2230	ug/kg	**1400**
Fluorene	77.4	307	536	ug/kg	**400**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	150
Naphthalene	176	369	561	ug/kg	**180**
Phenanthrene	204	687	1170	ug/kg	**1400**
Pyrene	195	858	1520	ug/kg	**920**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**7133**
METALS					
Antimony	2	13.5	25	mg/kg	7.1 UJ
Arsenic	9.8	21.4	33	mg/kg	3.4
Cadmium	0.99	3	5	mg/kg	0.59 U1
Chromium	43	76.5	110	mg/kg	19.7
Copper	32	91	150	mg/kg	17.9
Iron	20000	30000	40000	mg/kg	17500
Lead	36	83	130	mg/kg	14.2
Manganese	460	780	1100	mg/kg	**571**
Mercury	0.18	0.64	1.1	mg/kg	0.16 UJ
Nickel	23	36	49	mg/kg	17.1
Silver	1.6	1.9	2.2	mg/kg	1.2 U
Zinc	120	290	460	mg/kg	56.5
PESTICIDES					
Dieldrin	1.9	32	62	ug/kg	5.8 U
Total DDT	5.3	289	572	ug/kg	1.71 J

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-8 SUMMARY OF RESULTS BY LOCATION (SLB08)
ST. LOUIS BAY

				Location ID:	SW15-SLB08		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	27700	30300	5430
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	15	14	8.6
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**35 J**	**38**	**95 J**
Acenaphthene	6.7	48	89	ug/kg	**15 J**	**26 J**	**360 J**
Acenaphthylene	5.9	67	128	ug/kg	82 U	**12 J**	420 U
Anthracene	57.2	451	845	ug/kg	**58 J**	**66 J**	**1000**
Benzo(a)anthracene	108	579	1050	ug/kg	**210**	**240**	**1300**
Benzo(a)pyrene	150	800	1450	ug/kg	**200**	**210**	**1200**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**310**	**360**	**1300**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	150	140	**700**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	97	100 J	**580**
Chrysene	166	728	1290	ug/kg	**230**	**230 J**	**1200**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**44 J**	**43**	**170 J**
Fluoranthene	423	1327	2230	ug/kg	370	410 J	**3700**
Fluorene	77.4	307	536	ug/kg	35 J	46 J	**470**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	140	130	**600**
Naphthalene	176	369	561	ug/kg	54 J	61	74 J
Phenanthrene	204	687	1170	ug/kg	160	**260 J**	**4500**
Pyrene	195	858	1520	ug/kg	**410**	**480**	**3400**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**2559**	**2852**	**20859**
METALS							
Antimony	2	13.5	25	mg/kg	15 UJ	9.7 UJ	5.9 UJ
Arsenic	9.8	21.4	33	mg/kg	3.7	4.5	2.2
Cadmium	0.99	3	5	mg/kg	0.55 J	0.41 J	0.16 J
Chromium	43	76.5	110	mg/kg	29.7	27.6	30.6
Copper	32	91	150	mg/kg	21.6	20.3	13.4
Iron	20000	30000	40000	mg/kg	**27300**	**25200**	13000
Lead	36	83	130	mg/kg	14.7 J	20.1	**118 J**
Manganese	460	780	1100	mg/kg	**1010**	**778**	263
Mercury	0.18	0.64	1.1	mg/kg	0.079 J-	0.099 J	0.12 UJ
Nickel	23	36	49	mg/kg	22.8	20.5	11.5
Silver	1.6	1.9	2.2	mg/kg	2.5 UJ	1.6 U	0.98 UJ
Zinc	120	290	460	mg/kg	87	97.3	32.5
VOCS							
Benzene	57	83.5	110	ug/kg	1600 U	900 U	340 U
Xylene	25	37.5	50	ug/kg	3200 U	1800 U	680 U

TABLE D-8 SUMMARY OF RESULTS BY LOCATION (SLB08)
ST. LOUIS BAY

				Location ID:	SW15-SLB08		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	27700	30300	5430
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
SVOCS							
Dibenzofuran	150	365	580	ug/kg	27 J	34 J	**200 J**

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-9 SUMMARY OF RESULTS BY LOCATION (SLB09)
ST. LOUIS BAY

				Location ID:	SW15-SLB09			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	38000	30500	20000	12500
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	35	32	47	13
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	**72 J**	**50 J**	**56 J**	6.3 J
Acenaphthene	6.7	48	89	ug/kg	**35 J**	**64 J**	**160 J**	**16 J**
Acenaphthylene	5.9	67	128	ug/kg	**19 J**	67 U	180 U	22 U
Anthracene	57.2	451	845	ug/kg	**120**	**86**	**290**	22
Benzo(a)anthracene	108	579	1050	ug/kg	**520**	**230**	**860**	45
Benzo(a)pyrene	150	800	1450	ug/kg	**470**	**190**	**1000**	32
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**670**	**270**	**1500**	49
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**310**	130	**700**	23
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**260**	110	**500**	23
Chrysene	166	728	1290	ug/kg	**530**	**250**	**1100**	50
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**91**	**38 J**	**260**	6.6 J
Fluoranthene	423	1327	2230	ug/kg	**960**	**490**	**2100**	180
Fluorene	77.4	307	536	ug/kg	**79**	73	**310**	20 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**320**	120	**670**	21 J
Naphthalene	176	369	561	ug/kg	96	60 J	**340**	7.2 J
Phenanthrene	204	687	1170	ug/kg	**410**	**330**	**2000**	130
Pyrene	195	858	1520	ug/kg	**1100**	**560**	**1800**	170
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**6062**	**3084.5**	**13736**	812.1
METALS								
Antimony	2	13.5	25	mg/kg	10.6 UJ	8.9 UJ	8.1 UJ	7.2 UJ
Arsenic	9.8	21.4	33	mg/kg	4.4	4	2.6	2.1
Cadmium	0.99	3	5	mg/kg	0.42 J	0.35 J	0.22 J	0.097 J
Chromium	43	76.5	110	mg/kg	31.3	22.3	13.6	10.3
Copper	32	91	150	mg/kg	24	19.6	12.2	6.4
Iron	20000	30000	40000	mg/kg	**27800**	19700	12800	14400
Lead	36	83	130	mg/kg	20.9 J	19.2 J	11.4 J	3 J
Manganese	460	780	1100	mg/kg	**676**	314	198	158
Mercury	0.18	0.64	1.1	mg/kg	0.099 J-	0.064 J-	0.14 UJ	0.12 UJ
Nickel	23	36	49	mg/kg	21.9	17.1	11.1	9.1
Silver	1.6	1.9	2.2	mg/kg	1.8 UJ	1.5 UJ	1.4 UJ	1.2 UJ
Zinc	120	290	460	mg/kg	105	73.7	42.2	17.1

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-10 SUMMARY OF RESULTS BY LOCATION (SLB10)
ST. LOUIS BAY

				Location ID:	SW15-SLB10		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	19300	34300	167000
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	21	13	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**47 J**	**99**	1.7 J
Acenaphthene	6.7	48	89	ug/kg	**37 J**	**19 J**	9.5 U
Acenaphthylene	5.9	67	128	ug/kg	68 U	**17 J**	9.5 U
Anthracene	57.2	451	845	ug/kg	**96**	**79**	1 J
Benzo(a)anthracene	108	579	1050	ug/kg	**430**	**370**	9.5 U
Benzo(a)pyrene	150	800	1450	ug/kg	**390**	**370**	9.5 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**560**	**530**	9.5 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**290**	**270**	9.5 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	200	140	9.5 U
Chrysene	166	728	1290	ug/kg	**430**	**400**	9.5 U
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**90**	**79**	9.5 U
Fluoranthene	423	1327	2230	ug/kg	**740**	**610**	11
Fluorene	77.4	307	536	ug/kg	55 J	42 J	1.5 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**270**	**230**	9.5 U
Naphthalene	176	369	561	ug/kg	45 J	97	9.5 U
Phenanthrene	204	687	1170	ug/kg	**420**	**230**	8.7 J
Pyrene	195	858	1520	ug/kg	**820**	**670**	17
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**4954**	**4252**	93.15
METALS							
Antimony	2	13.5	25	mg/kg	8.7 UJ	0.79 J	6 UJ
Arsenic	9.8	21.4	33	mg/kg	3.4	4.3	5.4
Cadmium	0.99	3	5	mg/kg	0.32 J	0.62	0.57
Chromium	43	76.5	110	mg/kg	18	23.7	**98.1**
Copper	32	91	150	mg/kg	15.9	27.5	**64.4**
Iron	20000	30000	40000	mg/kg	16400	17600	**58700**
Lead	36	83	130	mg/kg	21.4	**48.3**	30.4
Manganese	460	780	1100	mg/kg	333	252	**981**
Mercury	0.18	0.64	1.1	mg/kg	0.076 J	**0.53 J+**	0.15 J+
Nickel	23	36	49	mg/kg	14	17.9	**53.4**
Silver	1.6	1.9	2.2	mg/kg	1.4 U	0.072 J	0.12 J
Zinc	120	290	460	mg/kg	70.8	**135**	**179**
DIOXINS							
FISH TEQ (ND=1/2RL)	0.85	11.2	21.5	pg/g	**5.16788**	**11.9751**	NS

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Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

pg/g = Picograms per gram

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-11 SUMMARY OF RESULTS BY LOCATION (SLB11)
ST. LOUIS BAY

				Location ID:	SW15-SLB11				
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8
				TOC (mg/kg):	183000	37800	33400	56600	89500
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
PCB AROCLORS									
Total PCBs (ND=0)	60	368	676	ug/kg	16	**83**	**94**	**261**	**71**
PAHS									
2-Methylnaphthalene	20.2	111	201	ug/kg	**2300**	**540**	**480**	**2300**	**8700**
Acenaphthene	6.7	48	89	ug/kg	**170 J**	**76 J**	**150 J**	**1500**	**3000**
Acenaphthylene	5.9	67	128	ug/kg	**22 J**	**27 J**	**31 J**	1500 U	**240 J**
Anthracene	57.2	451	845	ug/kg	**360**	**230**	**350**	**2800**	**4700**
Benzo(a)anthracene	108	579	1050	ug/kg	**1200**	**770**	**1400**	**7900**	**11000**
Benzo(a)pyrene	150	800	1450	ug/kg	**1200**	**790**	**1300**	**6700**	**9700**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**980**	**1000**	**1300**	**6300**	**8700**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**1000**	**650**	**910**	**3900**	**5500**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**710**	**340**	**1300**	**6000**	**8600**
Chrysene	166	728	1290	ug/kg	**1700**	**940**	**1700**	**8800**	**12000**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**260**	**200**	**280**	**1600**	**2000 J**
Fluoranthene	423	1327	2230	ug/kg	**1700**	**1400**	**3000**	**18000**	**25000**
Fluorene	77.4	307	536	ug/kg	**360**	**140**	**270**	**2300**	**4600**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**570**	**530**	**810**	**3700**	**5400**
Naphthalene	176	369	561	ug/kg	**430**	**180**	**210 J**	**770 J**	**1400 J**
Phenanthrene	204	687	1170	ug/kg	**1700**	**920**	**2000**	**15000**	**26000**
Pyrene	195	858	1520	ug/kg	**2500**	**1500**	**2800**	**16000**	**23000**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**17162**	**10233**	**18291**	**104320**	**159540**
METALS									
Antimony	2	13.5	25	mg/kg	0.75 J	**2.1 J**	7.7 UJ	1.2 J	0.71 J
Arsenic	9.8	21.4	33	mg/kg	5.2	7.6	5.6	8.1	8.9
Cadmium	0.99	3	5	mg/kg	0.36 J	0.43 J	0.63 J	0	**2.8**
Chromium	43	76.5	110	mg/kg	25.8	34.8	38	**46.3**	34.2
Copper	32	91	150	mg/kg	**46.5**	**58.1**	**60.4**	**122**	**151**
Iron	20000	30000	40000	mg/kg	**22900**	**29500**	**24600**	**29600**	19700
Lead	36	83	130	mg/kg	**56.1**	**70.6**	**90.3**	**300**	**456**
Manganese	460	780	1100	mg/kg	**542**	**594**	**558**	**502**	350
Mercury	0.18	0.64	1.1	mg/kg	0.15 UJ	0.11 J	0.16 J	**1.5 J+**	**5.8 J+**
Nickel	23	36	49	mg/kg	22.1	**27.8**	**30.5**	**28.3**	**25.4**
Silver	1.6	1.9	2.2	mg/kg	1.3 U	1.2 U	1.3 U	**1.9**	**4.3**
Zinc	120	290	460	mg/kg	101	**133**	**155**	**510**	**732**
SVOCS									
Dibenzofuran	150	365	580	ug/kg	NS	NS	NS	1300 U	**1900**

TABLE D-11 SUMMARY OF RESULTS BY LOCATION (SLB11)
ST. LOUIS BAY

				Location ID:	SW15-SLB11				
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8
				TOC (mg/kg):	183000	37800	33400	56600	89500
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
PESTICIDES									
Dieldrin	1.9	32	62	ug/kg	1.1 J	1.7 J	NS	NS	NS
Total DDT	5.3	289	572	ug/kg	1.93 J	4.39 J	NS	NS	NS

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-12 SUMMARY OF RESULTS BY LOCATION (SLB12)
ST. LOUIS BAY

				Location ID:	SW15-SLB12			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	18700	37800	39000	32000
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	13	22	0	0
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	**33 J**	**220**	**150**	**32 J**
Acenaphthene	6.7	48	89	ug/kg	**10 J**	**43 J**	**30 J**	**12 J**
Acenaphthylene	5.9	67	128	ug/kg	**12 J**	**32 J**	**21 J**	**14 J**
Anthracene	57.2	451	845	ug/kg	49	**130**	**100**	**62**
Benzo(a)anthracene	108	579	1050	ug/kg	**190**	**540**	**390**	**260**
Benzo(a)pyrene	150	800	1450	ug/kg	**210**	**550**	**340**	**220**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	230	**540**	**540**	**310**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	140	**350**	**260**	170
Benzo(k)fluoranthene	240	6820	13400	ug/kg	240	**460**	180	120
Chrysene	166	728	1290	ug/kg	**220**	**650**	**380**	**260**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	47	**120**	**70**	**46 J**
Fluoranthene	423	1327	2230	ug/kg	370	**1000**	**680**	**490**
Fluorene	77.4	307	536	ug/kg	26 J	**110**	72	35 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	140	**310**	**250**	160
Naphthalene	176	369	561	ug/kg	45	**310**	**150**	**39 J**
Phenanthrene	204	687	1170	ug/kg	150	**630**	**370**	**230**
Pyrene	195	858	1520	ug/kg	**330**	**1100**	**670**	**470**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**2442**	**7095**	**4653**	**2930**
METALS								
Antimony	2	13.5	25	mg/kg	12.6 UJ	0.72 J	0.29 J	9.2 UJ
Arsenic	9.8	21.4	33	mg/kg	3.7	5.7	4.1	4.1
Cadmium	0.99	3	5	mg/kg	0.34 J	**1.2**	0.7	0.47 J
Chromium	43	76.5	110	mg/kg	21.5	33.6	25.3	23.9
Copper	32	91	150	mg/kg	18.7	**38**	**41.7**	25
Iron	20000	30000	40000	mg/kg	**20400**	**31400**	**23200**	**20500**
Lead	36	83	130	mg/kg	16.9	**70**	**45.8**	29.4
Manganese	460	780	1100	mg/kg	**600**	**491**	420	407
Mercury	0.18	0.64	1.1	mg/kg	0.087 J	**0.45 J+**	**0.29 J+**	0.094 J
Nickel	23	36	49	mg/kg	17	**23.6**	19.6	18.6
Silver	1.6	1.9	2.2	mg/kg	2.1 U	0.62 J	1.2 U	1.5 U
Zinc	120	290	460	mg/kg	75.3	**231**	**138**	100
ORGANOTINS								
Tributyltin	0.52	1.73	2.94	ug/kg	3.1 U	2.5 U	NS	NS

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Red = Exceeds PEC

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-13 SUMMARY OF RESULTS BY LOCATION (SLB13)
ST. LOUIS BAY

				Location ID:	SW15-SLB13			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	49300	31000	62400	20400
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	**197**	**198**	26	NS
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	**620**	**410**	**1700 J**	18 J
Acenaphthene	6.7	48	89	ug/kg	**130 J**	**180 J**	**1800 J**	**31 J**
Acenaphthylene	5.9	67	128	ug/kg	**55 J**	**57 J**	2000 U	**8.3 J**
Anthracene	57.2	451	845	ug/kg	**350 J**	**420**	**2300**	**61**
Benzo(a)anthracene	108	579	1050	ug/kg	**1400**	**1800**	**3700**	**290**
Benzo(a)pyrene	150	800	1450	ug/kg	**1500**	**1800**	**2700**	**270**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**1900**	**2100**	**2400**	**250**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**1200**	**1200**	**1900 J**	160
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**1600**	**1600**	**2200**	**250**
Chrysene	166	728	1290	ug/kg	**2000**	**2300**	**5300**	**300**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**380 J**	**100 J**	**680 J**	**54**
Fluoranthene	423	1327	2230	ug/kg	**3400**	**3700**	**6100**	**630**
Fluorene	77.4	307	536	ug/kg	**230 J**	**300**	**3500**	33 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**1100**	**1100**	**1500 J**	150
Naphthalene	176	369	561	ug/kg	**360 J**	**250 J**	**660 J**	28 J
Phenanthrene	204	687	1170	ug/kg	**1500**	**2300**	**16000**	**350**
Pyrene	195	858	1520	ug/kg	**2600**	**3400**	**11000**	**560**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**20325**	**23017**	**64440**	**3443.3**
METALS								
Antimony	2	13.5	25	mg/kg	1.5 J	0.92 J	1.5 J	8.4 UJ
Arsenic	9.8	21.4	33	mg/kg	**10.8**	9.1	6.1	2.6
Cadmium	0.99	3	5	mg/kg	0.99	**1**	**1.1**	0.38 J
Chromium	43	76.5	110	mg/kg	**48.6**	**46.8**	29.9	14.7
Copper	32	91	150	mg/kg	**91.2**	**75.1**	**65.6**	14.6
Iron	20000	30000	40000	mg/kg	**42700**	**37200**	**25000**	12700
Lead	36	83	130	mg/kg	**123**	**118**	**152**	10.2
Manganese	460	780	1100	mg/kg	**849**	**719**	349	202
Mercury	0.18	0.64	1.1	mg/kg	0.086 J	**0.23 J+**	**1.1 J+**	0.17 J+
Nickel	23	36	49	mg/kg	**35**	**32.9**	21.7	12.4
Silver	1.6	1.9	2.2	mg/kg	1.9 U	0.18 J	**1.8**	1.4 U
Zinc	120	290	460	mg/kg	**266**	**244**	**290**	37
VOCS								
Benzene	57	83.5	110	ug/kg	1300 U	860 U	610 U	NS
Xylene	25	37.5	50	ug/kg	2600 U	1720 U	1220 U	NS
SVOCS								
Dibenzofuran	150	365	580	ug/kg	**250 J**	**170 J**	1000 U	NS

TABLE D-13 SUMMARY OF RESULTS BY LOCATION (SLB13)
ST. LOUIS BAY

PESTICIDES								
Dieldrin	1.9	32	62	ug/kg	**3.7 J**	**3.8 J**	NS	NS
Total DDT	5.3	289	572	ug/kg	**11.1 J**	**9.2 J**	NS	NS
ORGANOTINS								
Tributyltin	0.52	1.73	2.94	ug/kg	3.6 U	**5.2**	2.7 UJ	NS

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Red = Exceeds PEC

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-14 SUMMARY OF RESULTS BY LOCATION (SLB14)
ST. LOUIS BAY

				Location ID:	SW15-SLB14	
				Depth Interval (feet):	0-0.5	0.5-2
				TOC (mg/kg):	35700	37600
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**		
PCB AROCLORS						
Total PCBs (ND=0)	60	368	676	ug/kg	58	**102**
PAHS						
2-Methylnaphthalene	20.2	111	201	ug/kg	**79**	**94**
Acenaphthene	6.7	48	89	ug/kg	**18 J**	**36 J**
Acenaphthylene	5.9	67	128	ug/kg	**16 J**	**16 J**
Anthracene	57.2	451	845	ug/kg	**71**	**89**
Benzo(a)anthracene	108	579	1050	ug/kg	**290**	**420**
Benzo(a)pyrene	150	800	1450	ug/kg	**320**	**440**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**340**	**530**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**220**	**330**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**350**	**390**
Chrysene	166	728	1290	ug/kg	**380**	**510**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**71**	**94**
Fluoranthene	423	1327	2230	ug/kg	**640**	**850**
Fluorene	77.4	307	536	ug/kg	37 J	64 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	200	**290**
Naphthalene	176	369	561	ug/kg	61	82
Phenanthrene	204	687	1170	ug/kg	**270**	**410**
Pyrene	195	858	1520	ug/kg	**520**	**790**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**3883**	**5435**
METALS						
Antimony	2	13.5	25	mg/kg	0.8 J	0.65 J
Arsenic	9.8	21.4	33	mg/kg	6.9	6.4
Cadmium	0.99	3	5	mg/kg	0.61 J	0.62 J
Chromium	43	76.5	110	mg/kg	39	33.2
Copper	32	91	150	mg/kg	**50.1**	**43.6**
Iron	20000	30000	40000	mg/kg	**35900**	**28900**
Lead	36	83	130	mg/kg	**53**	**57.4**
Manganese	460	780	1100	mg/kg	**829**	**545**
Mercury	0.18	0.64	1.1	mg/kg	0.13 J	0.15 J
Nickel	23	36	49	mg/kg	**29**	**24**
Silver	1.6	1.9	2.2	mg/kg	2.9 U	1.5 U
Zinc	120	290	460	mg/kg	**166**	**164**
VOCS						
Benzene	57	83.5	110	ug/kg	2000 U	890 U
Xylene	25	37.5	50	ug/kg	4000 U	1780 U
SVOCS						
Dibenzofuran	150	365	580	ug/kg	44 J	54 J

TABLE D-14 SUMMARY OF RESULTS BY LOCATION (SLB14)
ST. LOUIS BAY

				Location ID:	SW15-SLB14	
				Depth Interval (feet):	0-0.5	0.5-2
				TOC (mg/kg):	35700	37600
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**		
ORGANOTINS						
Tributyltin	0.52	1.73	2.94	ug/kg	4.3 U	**6.4**

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-15 SUMMARY OF RESULTS BY LOCATION (SLB15)
ST. LOUIS BAY

				Location ID:	SW15-SLB15			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	9870	34200	38500	50300
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	10	24	7	NS
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	20 J	**100**	**130**	**60 J**
Acenaphthene	6.7	48	89	ug/kg	54 U	**25 J**	**32 J**	**21 J**
Acenaphthylene	5.9	67	128	ug/kg	54 U	**22 J**	**27 J**	**18 J**
Anthracene	57.2	451	845	ug/kg	19 J	**97**	**130**	**87**
Benzo(a)anthracene	108	579	1050	ug/kg	81	**420**	**530**	**380**
Benzo(a)pyrene	150	800	1450	ug/kg	79	**390**	**510**	**360**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	130	**610**	**770**	**500**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	63	**290**	**350**	**270**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	42 J	200	**250**	180
Chrysene	166	728	1290	ug/kg	90	**420**	**530**	**370**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	19 J	**84**	**98 J**	**81**
Fluoranthene	423	1327	2230	ug/kg	140	**760**	**940**	**700**
Fluorene	77.4	307	536	ug/kg	11 J	63	**89 J**	53 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	60	**280**	**330**	**270**
Naphthalene	176	369	561	ug/kg	18 J	100	140	79
Phenanthrene	204	687	1170	ug/kg	69	**360**	**500**	**340**
Pyrene	195	858	1520	ug/kg	170	**760**	**960**	**740**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	1065	**4981**	**6316**	**4509**
METALS								
Antimony	2	13.5	25	mg/kg	8.4 UJ	0.48 J	9.3 UJ	12 UJ
Arsenic	9.8	21.4	33	mg/kg	3.1	4.5	4	4.6
Cadmium	0.99	3	5	mg/kg	0.25 J	0.5 J	0.58 J	0.49 J
Chromium	43	76.5	110	mg/kg	25.3	22.7	25.8	39.9
Copper	32	91	150	mg/kg	15.4	27.7	29	31.3
Iron	20000	30000	40000	mg/kg	16800	19000	**21900**	**29400**
Lead	36	83	130	mg/kg	15.5 J	**328 J**	**48.3 J**	32.2 J
Manganese	460	780	1100	mg/kg	439	323	383	**593**
Mercury	0.18	0.64	1.1	mg/kg	0.14 UJ	**0.28**	**0.28**	**0.24**
Nickel	23	36	49	mg/kg	13.7	17	19.3	**28.8**
Silver	1.6	1.9	2.2	mg/kg	1.4 UJ	1.2 UJ	1.6 UJ	2 UJ
Zinc	120	290	460	mg/kg	65.2	111	**126**	113

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µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-16 SUMMARY OF RESULTS BY LOCATION (SLB16)
ST. LOUIS BAY

				Location ID:	SW15-SLB16		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	25000	23600	1830
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	**62**	**69**	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**97**	**53 J**	2.5 J
Acenaphthene	6.7	48	89	ug/kg	**20 J**	**16 J**	1 J
Acenaphthylene	5.9	67	128	ug/kg	70 U	57 U	5 U
Anthracene	57.2	451	845	ug/kg	**64 J**	50 J	3.4 J
Benzo(a)anthracene	108	579	1050	ug/kg	**270**	**200**	11
Benzo(a)pyrene	150	800	1450	ug/kg	**250**	**190**	9.4
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**420**	**300**	14
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**210**	140	6.1
Benzo(k)fluoranthene	240	6820	13400	ug/kg	160	94	4.9 J
Chrysene	166	728	1290	ug/kg	**330**	**240**	14
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**61 J**	**41 J**	1.9 J
Fluoranthene	423	1327	2230	ug/kg	**490**	360	18
Fluorene	77.4	307	536	ug/kg	43 J	34 J	1.4 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	200	130	5.3
Naphthalene	176	369	561	ug/kg	69 J	44 J	1.7 J
Phenanthrene	204	687	1170	ug/kg	**220**	180	14
Pyrene	195	858	1520	ug/kg	**570**	**400**	26
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**3509**	**2500.5**	137.1
METALS							
Antimony	2	13.5	25	mg/kg	9.9 UJ	0.39 J	6.4 UJ
Arsenic	9.8	21.4	33	mg/kg	4.5	4.5	4.9
Cadmium	0.99	3	5	mg/kg	0.38 J	0.48 J	0.2 J
Chromium	43	76.5	110	mg/kg	27.7	32.2	**43.2**
Copper	32	91	150	mg/kg	29.9	**37**	**38.6**
Iron	20000	30000	40000	mg/kg	**24200**	**26900**	**34800**
Lead	36	83	130	mg/kg	25.2 J	**37.2 J**	11.1 J
Manganese	460	780	1100	mg/kg	**644**	**580**	**670**
Mercury	0.18	0.64	1.1	mg/kg	0.063 J-	0.079 J-	0.13 UJ
Nickel	23	36	49	mg/kg	20.2	22.6	**32.1**
Silver	1.6	1.9	2.2	mg/kg	1.7 UJ	1.3 UJ	1.1 UJ
Zinc	120	290	460	mg/kg	111	**135**	60.7

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-17 SUMMARY OF RESULTS BY LOCATION (SLB17 AND SLB18)
ST. LOUIS BAY

				Location ID:	SW15-SLB17	SW15-SLB18
				Depth Interval (feet):	0-0.5	0-0.5
				TOC (mg/kg):	15600	17200
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**		
PCB AROCLORS						
Total PCBs (ND=0)	60	368	676	ug/kg	**64**	25
PAHS						
2-Methylnaphthalene	20.2	111	201	ug/kg	**34 J**	**43 J**
Acenaphthene	6.7	48	89	ug/kg	**29 J**	**18 J**
Acenaphthylene	5.9	67	128	ug/kg	62 U	70 U
Anthracene	57.2	451	845	ug/kg	**80**	**61 J**
Benzo(a)anthracene	108	579	1050	ug/kg	**230**	**290**
Benzo(a)pyrene	150	800	1450	ug/kg	**190**	**240**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**270**	**390**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	130	**180**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	100	140
Chrysene	166	728	1290	ug/kg	**240**	**310**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**38 J**	**53 J**
Fluoranthene	423	1327	2230	ug/kg	**470**	**500**
Fluorene	77.4	307	536	ug/kg	51 J	41 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	120	170
Naphthalene	176	369	561	ug/kg	35 J	38 J
Phenanthrene	204	687	1170	ug/kg	**310**	**280**
Pyrene	195	858	1520	ug/kg	**440**	**560**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**2798**	**3349**
METALS						
Antimony	2	13.5	25	mg/kg	8.9 UJ	9 UJ
Arsenic	9.8	21.4	33	mg/kg	3.5	4
Cadmium	0.99	3	5	mg/kg	0.43 J	0.48 J
Chromium	43	76.5	110	mg/kg	26.6	26.7
Copper	32	91	150	mg/kg	22.9	25.8
Iron	20000	30000	40000	mg/kg	20000	**24100**
Lead	36	83	130	mg/kg	**52.5 J**	18.3 J
Manganese	460	780	1100	mg/kg	**605**	**625**
Mercury	0.18	0.64	1.1	mg/kg	0.19 UJ	0.059 J-
Nickel	23	36	49	mg/kg	15.8	21.8
Silver	1.6	1.9	2.2	mg/kg	1.5 UJ	1.5 UJ
Zinc	120	290	460	mg/kg	80	87.2
ORGANOTINS						
Tributyltin	0.52	1.73	2.94	ug/kg	**2.9 J**	3.1 U

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NOTES:

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Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-18 SUMMARY OF RESULTS BY LOCATION (SB01)
SUPERIOR BAY

				Location ID:	SW15-SB01	
				Depth Interval (feet):	0-0.5	0.5-2
				TOC (mg/kg):	1000 U1	1000 U1
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**		
PCB AROCLORS						
Total PCBs (ND=0)	60	368	676	ug/kg	0	0
PAHS						
2-Methylnaphthalene	20.2	111	201	ug/kg	1.2 J	1.4 J
Acenaphthene	6.7	48	89	ug/kg	4.4 U	0.69 J
Acenaphthylene	5.9	67	128	ug/kg	4.4 U	3.8 U
Anthracene	57.2	451	845	ug/kg	0.74 J	1.2 J
Benzo(a)anthracene	108	579	1050	ug/kg	3.4 J	2.8 J
Benzo(a)pyrene	150	800	1450	ug/kg	3 J	2.4 J
Benzo(b)fluoranthene	240	6820	13400	ug/kg	4.3 J	3.3 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	2.5 J	1.9 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	3.9 J	2.9 J
Chrysene	166	728	1290	ug/kg	3.9 J	2.8 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	0.73 J	3.8 U
Fluoranthene	423	1327	2230	ug/kg	8	10 J+
Fluorene	77.4	307	536	ug/kg	0.6 J	0.81 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	2.3 J	1.7 J
Naphthalene	176	369	561	ug/kg	1.1 J	1.2 J
Phenanthrene	204	687	1170	ug/kg	3 J	3 J
Pyrene	195	858	1520	ug/kg	4.7	8.1 J+
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	47.77	48
METALS						
Antimony	2	13.5	25	mg/kg	6.5 U	5.3 U
Cadmium	0.99	3	5	mg/kg	0.54 U1	0.44 U1
Chromium	43	76.5	110	mg/kg	5.8	4.2
Copper	32	91	150	mg/kg	3	2.6
Iron	20000	30000	40000	mg/kg	8890	7840
Lead	36	83	130	mg/kg	3.4	4.4
Manganese	460	780	1100	mg/kg	97.1	86.5
Mercury	0.18	0.64	1.1	mg/kg	0.11 U	0.11 U
Nickel	23	36	49	mg/kg	3.3 J	2.8 J
Silver	1.6	1.9	2.2	mg/kg	1.1 U	0.88 U
Zinc	120	290	460	mg/kg	19.7	12.8

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-19 SUMMARY OF RESULTS BY LOCATION (SB02)
SUPERIOR BAY

				Location ID:	SW15-SB02					
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8	8-10
				TOC (mg/kg):	32900	62200	51600	41400	44400	32100
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**						
PCB AROCLORS										
Total PCBs (ND=0)	60	368	676	ug/kg	22	25	0	NS	NS	NS
PAHS										
2-Methylnaphthalene	20.2	111	201	ug/kg	**34 J**	**150**	8.9	1.5 J	7.1 U	7.7 U
Acenaphthene	6.7	48	89	ug/kg	**9.8 J**	**24 J**	2.4 J	6.6 U	7.1 U	7.7 U
Acenaphthylene	5.9	67	128	ug/kg	**13 J**	**32 J**	4.5 J	0.7 J	7.1 U	7.7 U
Anthracene	57.2	451	845	ug/kg	40 J	**100**	6.9 J	0.8 J	0.61 J	7.7 U
Benzo(a)anthracene	108	579	1050	ug/kg	**180**	**430**	34	3.4 J	7.1 U	7.7 U
Benzo(a)pyrene	150	800	1450	ug/kg	**190**	**460**	39	6.6 U	7.1 U	7.7 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**260**	**490**	41	6.3 J	7.1 U	7.7 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	120	**300**	26	4.6 J	7.1 U	7.7 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	200	**440**	39	4.5 J	7.1 U	7.7 U
Chrysene	166	728	1290	ug/kg	**210**	**420**	37	4.7 J	2 J	1.3 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	14 J	**110**	6.4 J	0.92 J	7.1 U	7.7 U
Fluoranthene	423	1327	2230	ug/kg	330	**780**	75	12	2.8 J	1.9 J
Fluorene	77.4	307	536	ug/kg	24 J	74	6.7 J	1.6 J	7.1 U	7.7 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	130	**300**	25	3.5 J	7.1 U	7.7 U
Naphthalene	176	369	561	ug/kg	61	150	13	1.6 J	7.1 U	7.7 U
Phenanthrene	204	687	1170	ug/kg	120	**360**	43	7.5	2.9 J	2.1 J
Pyrene	195	858	1520	ug/kg	**280**	**660**	67	9.7	1.8 J	1.5 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**2215.8**	**5280**	474.8	69.92	52.71	56.85
METALS										
Antimony	2	13.5	25	mg/kg	0.56 J	10.3 UJ	13.8 UJ	10.6 UJ	11.1 UJ	12.8 UJ
Cadmium	0.99	3	5	mg/kg	1.2 U1	0.86 U1	1.1 U1	0.89 U1	0.55 J	0.62 J
Chromium	43	76.5	110	mg/kg	40.8	38	**46.3**	38.8	**45.4**	**56.1**
Copper	32	91	150	mg/kg	27.8	29.1	30.4	21.6	19.9	24.2
Iron	20000	30000	40000	mg/kg	**35200**	**28000**	**32900**	**29700**	**33000**	**39100**
Lead	36	83	130	mg/kg	27.6	**38.1**	15.7	7.7	7.2	8.8
Manganese	460	780	1100	mg/kg	**1640**	**606**	**850**	**1200**	**1160**	**1300**
Mercury	0.18	0.64	1.1	mg/kg	0.14 J-	**0.29**	0.22 U	0.18 U	0.2 U	0.21 U
Nickel	23	36	49	mg/kg	**32.4**	**30.4**	**36.3**	**30.1**	**30.7**	**37.5**
Silver	1.6	1.9	2.2	mg/kg	0.3 J	0.22 J	2.3 U	1.8 U	1.8 U	2.1 U
Zinc	120	290	460	mg/kg	**143**	**154**	103	84.7	95.7	120
DIOXINS										
FISH TEQ (ND=1/2RL)	0.85	11.2	21.5	pg/g	**10.91131**	NS	NS	NS	NS	NS

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

pg/g = Picograms per gram

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-20 SUMMARY OF RESULTS BY LOCATION (SB03)
SUPERIOR BAY

				Location ID:	SW15-SB03		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	4680	1000 U1	2250
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	0	0	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	4.1 J	4 U	3.9 U
Acenaphthene	6.7	48	89	ug/kg	0.76 J	4 U	3.9 U
Acenaphthylene	5.9	67	128	ug/kg	0.84 J	4 U	3.9 U
Anthracene	57.2	451	845	ug/kg	5	4 U	0.32 J
Benzo(a)anthracene	108	579	1050	ug/kg	12	0.64 J	1.4 J
Benzo(a)pyrene	150	800	1450	ug/kg	17	4 U	1.5 J
Benzo(b)fluoranthene	240	6820	13400	ug/kg	16	0.69 J	1.3 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	7	0.45 J	0.69 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	15	0.64 J	1.3 J
Chrysene	166	728	1290	ug/kg	19	0.91 J	1.8 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	2.1 J	4 U	0.3 J
Fluoranthene	423	1327	2230	ug/kg	23	1.2 J	2.1 J
Fluorene	77.4	307	536	ug/kg	2.5 J	4 U	3.9 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	7.3	0.45 J	0.85 J
Naphthalene	176	369	561	ug/kg	2.7 J	4 U	3.9 U
Phenanthrene	204	687	1170	ug/kg	10	0.64 J	1.1 J
Pyrene	195	858	1520	ug/kg	25	1.3 J	2.6 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	169.3	22.92	25.01
METALS							
Antimony	2	13.5	25	mg/kg	7.5 UJ	6.4 UJ	5.8 UJ
Cadmium	0.99	3	5	mg/kg	0.62 U1	0.53 U1	0.49 U1
Chromium	43	76.5	110	mg/kg	10.9	6.8	7.5
Copper	32	91	150	mg/kg	4	3.8	**47.1**
Iron	20000	30000	40000	mg/kg	12000	7650	7740
Lead	36	83	130	mg/kg	4	2.1	3.2
Manganese	460	780	1100	mg/kg	155	93.7	107
Mercury	0.18	0.64	1.1	mg/kg	0.14 UJ	0.12 UJ	0.11 UJ
Nickel	23	36	49	mg/kg	7.7	7.4	8.4
Silver	1.6	1.9	2.2	mg/kg	1.2 U	1.1 U	0.97 U
Zinc	120	290	460	mg/kg	19.8	15.6	20.2
VOCS							
1,4-Dichlorobenzene	31	60.5	90	ug/kg	410 U	330 U	340 U
Benzene	57	83.5	110	ug/kg	410 U	330 U	340 U
Xylene	25	37.5	50	ug/kg	820 U	660 U	680 U
SVOCS							
Dibenzofuran	150	365	580	ug/kg	240 U	210 U	200 U
DIOXINS							
FISH TEQ (ND=1/2RL)	0.85	11.2	21.5	pg/g	**6.52432**	**6.75515**	NS

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

pg/g = Picograms per gram

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-21 SUMMARY OF RESULTS BY LOCATION (SB04)
SUPERIOR BAY

				Location ID:	SW15-SB04		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	7300	16400	57500
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	8.4	**70**	**88**
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**850 J**	**84 J**	**1100 J**
Acenaphthene	6.7	48	89	ug/kg	**2000 J**	**120**	**1700 J**
Acenaphthylene	5.9	67	128	ug/kg	2200 U	110 U	2100 U
Anthracene	57.2	451	845	ug/kg	**6500**	**210**	**3500**
Benzo(a)anthracene	108	579	1050	ug/kg	**7800**	**330**	**7000**
Benzo(a)pyrene	150	800	1450	ug/kg	**6400**	**280**	**5400**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**6800**	**330**	**6000**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**3300**	170	**2800**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**2700**	140	**2900**
Chrysene	166	728	1290	ug/kg	**7500**	**340**	**6400**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**840 J**	**66 J**	**1100 J**
Fluoranthene	423	1327	2230	ug/kg	**18000**	**630**	**16000**
Fluorene	77.4	307	536	ug/kg	**2400**	**110**	**2400**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**3200**	160	**3000**
Naphthalene	176	369	561	ug/kg	**1400 J**	120	**1600 J**
Phenanthrene	204	687	1170	ug/kg	**19000**	**810**	**15000**
Pyrene	195	858	1520	ug/kg	**16000**	**770**	**14000**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**105790**	**4725**	**90950**
METALS							
Antimony	2	13.5	25	mg/kg	8 UJ	**2.8 J**	1.1 J
Cadmium	0.99	3	5	mg/kg	0.67 U1	0.78 U1	**1.2**
Chromium	43	76.5	110	mg/kg	13.5 J	16.6 J	9.8 J
Copper	32	91	150	mg/kg	**138**	30.4	**82.7**
Iron	20000	30000	40000	mg/kg	8770 J	11400 J	6950 J
Lead	36	83	130	mg/kg	21.8	**50.8**	**189**
Manganese	460	780	1100	mg/kg	266	**511**	83.5
Mercury	0.18	0.64	1.1	mg/kg	0.1 J	**0.19 J+**	**1.1 J+**
Nickel	23	36	49	mg/kg	6.7	10.6	8.1
Silver	1.6	1.9	2.2	mg/kg	1.3 U	0.51 J	**3.4**
Zinc	120	290	460	mg/kg	43.1	92.3	**189**
VOCS							
1,4-Dichlorobenzene	31	60.5	90	ug/kg	620 U	550 U	**250 J**
Benzene	57	83.5	110	ug/kg	**160 J**	**210 J**	**600**
Xylene	25	37.5	50	ug/kg	1240 U	1100 U	**350**
SVOCS							
Dibenzofuran	150	365	580	ug/kg	**1300 J**	54 J	**1300 J**

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NOTES:

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Red = Exceeds PEC

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-22 SUMMARY OF RESULTS BY LOCATION (SB05)
SUPERIOR BAY

				Location ID:	SW15-SB05		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	8150 J	15500 J	15400 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	8.6	32	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**68 J**	**180 J**	**52 J**
Acenaphthene	6.7	48	89	ug/kg	**91 J**	**960**	**150**
Acenaphthylene	5.9	67	128	ug/kg	97 U	**140 J**	**15 J**
Anthracene	57.2	451	845	ug/kg	**71 J**	**1300**	42 J
Benzo(a)anthracene	108	579	1050	ug/kg	**220**	**1900**	**210**
Benzo(a)pyrene	150	800	1450	ug/kg	**170**	**1500**	150
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**320**	**1600**	210
Benzo(e)pyrene	150	800	1450	ug/kg	**170**	**910**	120
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	130	**810**	94
Benzo(k)fluoranthene	240	6820	13400	ug/kg	100	**510**	66
Chrysene	166	728	1290	ug/kg	**270**	**1600**	**190**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**35 J**	**220 J**	26 J
Fluoranthene	423	1327	2230	ug/kg	**520**	**4000**	**460**
Fluorene	77.4	307	536	ug/kg	62 J	**620**	**82**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	140	**790**	87
Naphthalene	176	369	561	ug/kg	96 J	**340 J**	60
Phenanthrene	204	687	1170	ug/kg	**450**	**6900**	150
Pyrene	195	858	1520	ug/kg	**680**	**5600**	**730**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**3471.5**	**28970**	**2774**
METALS							
Antimony	2	13.5	25	mg/kg	0.4 J	6.8 UJ	5.4 UJ
Cadmium	0.99	3	5	mg/kg	0.49 J	0.25 J	0.11 J
Chromium	43	76.5	110	mg/kg	11.5	10.4	6.9
Copper	32	91	150	mg/kg	20.3	12.9	4.4
Iron	20000	30000	40000	mg/kg	9130	9080	6520
Lead	36	83	130	mg/kg	35.3 J	18 J	4.9 J
Manganese	460	780	1100	mg/kg	183	139	77.6
Mercury	0.18	0.64	1.1	mg/kg	0.13 J	0.1 J	0.18 J
Nickel	23	36	49	mg/kg	7.5	6.8	5.3
Silver	1.6	1.9	2.2	mg/kg	1 J	0.13 J	0.91 U
Zinc	120	290	460	mg/kg	93.3	43.2	18.3

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-23 SUMMARY OF RESULTS BY LOCATION (SB06)
SUPERIOR BAY

				Location ID:	SW15-SB06		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	80200 J	81700 J	84100 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	50	**120**	48
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**360**	**690 J**	**250 J**
Acenaphthene	6.7	48	89	ug/kg	**300**	**1200 J**	**790**
Acenaphthylene	5.9	67	128	ug/kg	**79 J**	2500 UJ	**76 J**
Anthracene	57.2	451	845	ug/kg	**500**	**1400 J**	**890**
Benzo(a)anthracene	108	579	1050	ug/kg	**1400**	**3700**	**1600**
Benzo(a)pyrene	150	800	1450	ug/kg	**1300**	**3000**	**1300**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**1200**	**2300 J**	**1100**
Benzo(e)pyrene	150	800	1450	ug/kg	**890**	2500 UJ	**860**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**770**	**1600 J**	**690**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**1100**	**2500**	**1000**
Chrysene	166	728	1290	ug/kg	**1300**	**3300**	**1400**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**250**	**530 J**	**61 J**
Fluoranthene	423	1327	2230	ug/kg	**2900**	**7200**	**3500**
Fluorene	77.4	307	536	ug/kg	**290**	**1500 J**	**580**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**760**	**1300 J**	**610**
Naphthalene	176	369	561	ug/kg	**390**	**500 J**	**270 J**
Phenanthrene	204	687	1170	ug/kg	**2200**	**8800**	**4300**
Pyrene	195	858	1520	ug/kg	**2100**	**6600**	**3200**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**17199**	**47370**	**21617**
METALS							
Antimony	2	13.5	25	mg/kg	9.5 UJ	0.7 J	0.55 J
Cadmium	0.99	3	5	mg/kg	0.64 J	**1.3**	0.98
Chromium	43	76.5	110	mg/kg	26.9	33.6	26
Copper	32	91	150	mg/kg	**35.4**	**76.8**	**53.7**
Iron	20000	30000	40000	mg/kg	**24500**	**25900**	19200
Lead	36	83	130	mg/kg	**46.2**	**197**	**112**
Manganese	460	780	1100	mg/kg	**478**	350	259
Mercury	0.18	0.64	1.1	mg/kg	**0.43 J+**	**1.8 J+**	**1.4 J+**
Nickel	23	36	49	mg/kg	18.7	22.2	18.6
Silver	1.6	1.9	2.2	mg/kg	0.65 J	**2.7**	**2.1**
Zinc	120	290	460	mg/kg	**121**	**260**	**213**

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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Red = Exceeds PEC

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-24 SUMMARY OF RESULTS BY LOCATION (SB07)
SUPERIOR BAY

				Location ID:	SW15-SB07		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	30200	10400	2470
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	30	25	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**170 J**	**82 J**	90 U
Acenaphthene	6.7	48	89	ug/kg	**140 J**	**60 J**	90 U
Acenaphthylene	5.9	67	128	ug/kg	180 U	**23 J**	90 U
Anthracene	57.2	451	845	ug/kg	**250**	**110**	90 U
Benzo(a)anthracene	108	579	1050	ug/kg	**690**	**490**	17 J
Benzo(a)pyrene	150	800	1450	ug/kg	**630**	**520**	90 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**850**	**690**	90 U
Benzo(e)pyrene	150	800	1450	ug/kg	**450**	**380**	90 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**390**	**270**	90 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**360**	**270**	90 U
Chrysene	166	728	1290	ug/kg	**740**	**530**	23 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**95 J**	**73 J**	90 U
Fluoranthene	423	1327	2230	ug/kg	**1400**	**820**	68 J
Fluorene	77.4	307	536	ug/kg	**140 J**	52 J	90 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**360**	**230**	90 U
Naphthalene	176	369	561	ug/kg	**200**	94	90 U
Phenanthrene	204	687	1170	ug/kg	**1500**	**490**	90 U
Pyrene	195	858	1520	ug/kg	**2200**	**1300**	100
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**10205**	**6104**	793
METALS							
Antimony	2	13.5	25	mg/kg	1.4 J	5.7 UJ	6.2 UJ
Cadmium	0.99	3	5	mg/kg	0.71 U1	0.48 U1	0.52 U1
Chromium	43	76.5	110	mg/kg	13.8 J	9.8 J	7.1 J
Copper	32	91	150	mg/kg	19.5	11.6	1.9 J
Iron	20000	30000	40000	mg/kg	11700 J	7480 J	4010 J
Lead	36	83	130	mg/kg	26.7	21.2	2.3
Manganese	460	780	1100	mg/kg	198	105	50.2
Mercury	0.18	0.64	1.1	mg/kg	**0.29 J+**	**0.74 J+**	0.12 U
Nickel	23	36	49	mg/kg	9.6	6.6	2.7 J
Silver	1.6	1.9	2.2	mg/kg	0.17 J	0.094 J	1 U
Zinc	120	290	460	mg/kg	58.8	46.2	6.4
VOCS							
1,4-Dichlorobenzene	31	60.5	90	ug/kg	550 U	1100 U	370 U
Benzene	57	83.5	110	ug/kg	550 U	1100 U	370 U
Xylene	25	37.5	50	ug/kg	**624**	2200 U	740 U
SVOCS							
Dibenzofuran	150	365	580	ug/kg	120 J	44 J	230 U

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-25 SUMMARY OF RESULTS BY LOCATION (SB08)
SUPERIOR BAY

				Location ID:	SW15-SB08	
				Depth Interval (feet):	0-0.5	0.5-2
				TOC (mg/kg):	70100 J	46400 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**		
PCB AROCLORS						
Total PCBs (ND=0)	60	368	676	ug/kg	0	**147**
PAHS						
2-Methylnaphthalene	20.2	111	201	ug/kg	**300**	**89 J**
Acenaphthene	6.7	48	89	ug/kg	**140**	**830**
Acenaphthylene	5.9	67	128	ug/kg	**31 J**	**41 J**
Anthracene	57.2	451	845	ug/kg	**170**	**140**
Benzo(a)anthracene	108	579	1050	ug/kg	**620**	**560**
Benzo(a)pyrene	150	800	1450	ug/kg	**550**	**460**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**540**	**480**
Benzo(e)pyrene	150	800	1450	ug/kg	**450**	**420**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**350**	**320**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**540**	**520**
Chrysene	166	728	1290	ug/kg	**610**	**520**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**36 J**	**34 J**
Fluoranthene	423	1327	2230	ug/kg	**1200**	**1100**
Fluorene	77.4	307	536	ug/kg	**150**	**340**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**330**	**320**
Naphthalene	176	369	561	ug/kg	**260**	140
Phenanthrene	204	687	1170	ug/kg	**1000**	**840**
Pyrene	195	858	1520	ug/kg	**980**	**900**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**7807**	**7634**
METALS						
Antimony	2	13.5	25	mg/kg	10 UJ	9.1 UJ
Cadmium	0.99	3	5	mg/kg	0.73 J	0.88
Chromium	43	76.5	110	mg/kg	24	35.9
Copper	32	91	150	mg/kg	29.8	**48.1**
Iron	20000	30000	40000	mg/kg	**23600**	**30700**
Lead	36	83	130	mg/kg	**36.7**	**65**
Manganese	460	780	1100	mg/kg	**461**	**475**
Mercury	0.18	0.64	1.1	mg/kg	**0.34 J+**	**0.74 J+**
Nickel	23	36	49	mg/kg	18.5	**26.9**
Silver	1.6	1.9	2.2	mg/kg	0.23 J	0.79 J
Zinc	120	290	460	mg/kg	99.7	**150**

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-26 SUMMARY OF RESULTS BY LOCATION (SB09)
SUPERIOR BAY

				Location ID:	SW15-SB09		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	14500	4620	20700
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	12	0	7.2
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**61**	18 J	**100**
Acenaphthene	6.7	48	89	ug/kg	**40 J**	**13 J**	**75 J**
Acenaphthylene	5.9	67	128	ug/kg	51 U	43 U	94 U
Anthracene	57.2	451	845	ug/kg	51	31 J	**120**
Benzo(a)anthracene	108	579	1050	ug/kg	**130**	**120**	**380**
Benzo(a)pyrene	150	800	1450	ug/kg	120	98	**300**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	160	130	**510**
Benzo(e)pyrene	150	800	1450	ug/kg	89	77	**260**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	77	61	**190**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	66	54	190
Chrysene	166	728	1290	ug/kg	140	130	**450**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	18 J	13 J	**54 J**
Fluoranthene	423	1327	2230	ug/kg	240	210	**800**
Fluorene	77.4	307	536	ug/kg	43 J	12 J	**85 J**
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	60	46	170
Naphthalene	176	369	561	ug/kg	69	15 J	99
Phenanthrene	204	687	1170	ug/kg	**260**	120	**830**
Pyrene	195	858	1520	ug/kg	**430**	**380**	**870**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**1990.5**	1472.5	**5270**
METALS							
Antimony	2	13.5	25	mg/kg	7.7 UJ	7.3 UJ	7.6 UJ
Cadmium	0.99	3	5	mg/kg	0.64 U1	0.61 U1	0.63 U1
Chromium	43	76.5	110	mg/kg	9.8 J	7.7 J	18.2 J
Copper	32	91	150	mg/kg	10.4	7.1	20.4
Iron	20000	30000	40000	mg/kg	9250 J	6020 J	13900 J
Lead	36	83	130	mg/kg	9	10.6	28.2
Manganese	460	780	1100	mg/kg	219	86.6	203
Mercury	0.18	0.64	1.1	mg/kg	0.049 J	0.12 U	**0.39 J+**
Nickel	23	36	49	mg/kg	9.8	5.9	14.1
Silver	1.6	1.9	2.2	mg/kg	1.3 U	1.2 U	0.23 J
Zinc	120	290	460	mg/kg	33.4	27.9	66.9
VOCS							
1,4-Dichlorobenzene	31	60.5	90	ug/kg	470 U	420 U	490 U
Benzene	57	83.5	110	ug/kg	470 U	420 U	490 U
Xylene	25	37.5	50	ug/kg	940 U	840 U	980 U
SVOCS							
Dibenzofuran	150	365	580	ug/kg	43 J	220 U	240 UJ

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-27 SUMMARY OF RESULTS BY LOCATION (SB10)
SUPERIOR BAY

				Location ID:	SW15-SB10		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	20200 J	29700 J	28600 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	0	0	**77**
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**58**	**53**	**69**
Acenaphthene	6.7	48	89	ug/kg	**23 J**	**64**	**47 J**
Acenaphthylene	5.9	67	128	ug/kg	**10 J**	**8.8 J**	**19 J**
Anthracene	57.2	451	845	ug/kg	71	**34**	**110**
Benzo(a)anthracene	108	579	1050	ug/kg	**180**	**150**	**500**
Benzo(a)pyrene	150	800	1450	ug/kg	160	**120**	**480**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	230	**160**	570
Benzo(e)pyrene	150	800	1450	ug/kg	150	**120**	420
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	120	**96**	320
Benzo(k)fluoranthene	240	6820	13400	ug/kg	150	**150**	490
Chrysene	166	728	1290	ug/kg	200	**150**	**460**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	8.8 J	8.4 J	33 J
Fluoranthene	423	1327	2230	ug/kg	440	**400**	**950**
Fluorene	77.4	307	536	ug/kg	40	28	51 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	120	**96**	310
Naphthalene	176	369	561	ug/kg	64	70	78
Phenanthrene	204	687	1170	ug/kg	190	**150**	380
Pyrene	195	858	1520	ug/kg	**290**	**250**	**660**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**2354.8**	**1988.2**	**5527**
METALS							
Antimony	2	13.5	25	mg/kg	9.2 UJ	0.38 J	8.2 UJ
Cadmium	0.99	3	5	mg/kg	0.5 J	0.52 J	0.84
Chromium	43	76.5	110	mg/kg	26	29.3	31
Copper	32	91	150	mg/kg	20.1	20.2	30.6
Iron	20000	30000	40000	mg/kg	**25400**	**28100**	**30600**
Lead	36	83	130	mg/kg	20.7	22.4	**36.7**
Manganese	460	780	1100	mg/kg	**727**	**622**	366
Mercury	0.18	0.64	1.1	mg/kg	0.1 J	0.11 J	**0.38 J+**
Nickel	23	36	49	mg/kg	20	**27.9**	21.7
Silver	1.6	1.9	2.2	mg/kg	1.5 U	0.13 J	0.34 J
Zinc	120	290	460	mg/kg	91.7	101	**130**

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Red = Exceeds PEC

B = Blank contamination.

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-28 SUMMARY OF RESULTS BY LOCATION (SB11/SB12)
SUPERIOR BAY

				Location ID:	SW15-SB11		SW15-SB12	
				Depth Interval (feet):	0-0.5	0.5-2	0-0.5	0.5-2
				TOC (mg/kg):	55100 J	45000 J	930 J	470 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	**174**	**178**	0	0
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	**150**	**230**	1 J	1.1 J
Acenaphthene	6.7	48	89	ug/kg	**96 J**	**140 J**	0.61 J	0.59 J
Acenaphthylene	5.9	67	128	ug/kg	**28 J**	**54 J**	4.4 U	4 U
Anthracene	57.2	451	845	ug/kg	**180**	**300 J**	1.1 J	1.3 J
Benzo(a)anthracene	108	579	1050	ug/kg	**880**	**1000 J**	3.1 J	7.5
Benzo(a)pyrene	150	800	1450	ug/kg	**760**	**900 J**	3.9 J	5.3
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**1400**	**1400 J**	7.7	9.3
Benzo(e)pyrene	150	800	1450	ug/kg	**670**	**720 J**	4.4 U	4.4
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**390**	**370 J**	2.7 J	3.5 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**380**	**400 J**	1.9 J	2.2 J
Chrysene	166	728	1290	ug/kg	**840**	**1000 J**	3.6 J	7
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**160**	**140 J**	4.4 U	1.1 J
Fluoranthene	423	1327	2230	ug/kg	**1600**	**2100 J**	6	11
Fluorene	77.4	307	536	ug/kg	**120 J**	**210 J**	1.3 J	0.96 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**430**	**440 J**	2.9 J	3.1 J
Naphthalene	176	369	561	ug/kg	130	**180 J**	1 J	1 J
Phenanthrene	204	687	1170	ug/kg	**680**	**900 J**	3.5 J	7.2
Pyrene	195	858	1520	ug/kg	**1300**	**1600 J**	8.1	15
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**9524**	**11364**	52.81	79.15
METALS								
Antimony	2	13.5	25	mg/kg	0.47 J	0.55 J	7 UJ	5.6 UJ
Cadmium	0.99	3	5	mg/kg	**1.3**	**1.5**	0.59 U1	0.47 U1
Chromium	43	76.5	110	mg/kg	42	38.4	15 J	8.7 J
Copper	32	91	150	mg/kg	**54.8**	**82.9**	3.8	3.9
Iron	20000	30000	40000	mg/kg	**34400**	**27200**	16400	10200
Lead	36	83	130	mg/kg	**110 J**	**427 J**	4.9 J	4.2 J
Manganese	460	780	1100	mg/kg	**676**	342	152 J	129 J
Mercury	0.18	0.64	1.1	mg/kg	**0.99 J**	**1.6 J**	0.14 U	0.11 U
Nickel	23	36	49	mg/kg	**29.9**	**24.3**	7.2	5.5
Silver	1.6	1.9	2.2	mg/kg	1.6 J	**3.5**	1.2 U	0.93 U
Zinc	120	290	460	mg/kg	**236**	**293**	25.4	22.5
VOCS								
1,4-Dichlorobenzene	31	60.5	90	ug/kg	1000 U	770 U	390 U	340 U
Benzene	57	83.5	110	ug/kg	1000 U	770 U	390 U	340 U
Xylene	25	37.5	50	ug/kg	2000 U	1540 U	780 U	680 U
SVOCS								
Dibenzofuran	150	365	580	ug/kg	57 J	640 UJ	230 U	200 U

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-29 SUMMARY OF RESULTS BY LOCATION (SB13)
SUPERIOR BAY

				Location ID:	SW15-SB13			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	4790 J	50300 J	61900 J	70500 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	0	7.2	18.3	NS
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	2.9 J	**41 J**	**220**	**120**
Acenaphthene	6.7	48	89	ug/kg	9.3 U	5.5 J	**25 J**	**14 J**
Acenaphthylene	5.9	67	128	ug/kg	9.3 U	28 UJ	**23 J**	**13 J**
Anthracene	57.2	451	845	ug/kg	2.2 J	15 J	**78**	51 J
Benzo(a)anthracene	108	579	1050	ug/kg	6.1 J	72	**340**	**200**
Benzo(a)pyrene	150	800	1450	ug/kg	5.4 J	66	**290**	**180**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	10	110	**480**	**280**
Benzo(e)pyrene	150	800	1450	ug/kg	9.3 U	52	**250**	150
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	3.8 J	42	160	120
Benzo(k)fluoranthene	240	6820	13400	ug/kg	2.7 J	29	140	94
Chrysene	166	728	1290	ug/kg	7.1 J	71	**310**	**190**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	9.3 U	14 J	**54 J**	**38 J**
Fluoranthene	423	1327	2230	ug/kg	12	120	**550**	300
Fluorene	77.4	307	536	ug/kg	1.4 J	12 J	61	37 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	3.6 J	42	160	110
Naphthalene	176	369	561	ug/kg	2.8 J	27 J	170	92
Phenanthrene	204	687	1170	ug/kg	6.6 J	86	**420**	**240**
Pyrene	195	858	1520	ug/kg	13	150	**530**	**400**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	93.55	916.5	**4011**	**2479**
METALS								
Antimony	2	13.5	25	mg/kg	6.6 UJ	9 UJ	8.8 UJ	8.9 UJ
Cadmium	0.99	3	5	mg/kg	0.55 U1	0.75 U1	0.73 U1	0.91 J+
Chromium	43	76.5	110	mg/kg	11.5 J	33.9 J	42.2 J	38.3 J
Copper	32	91	150	mg/kg	5.9	19.6	26.8	31.5
Iron	20000	30000	40000	mg/kg	11600	**24200**	**29800**	**27800**
Lead	36	83	130	mg/kg	3.6 J	11.7 J	27 J	**42.2 J**
Manganese	460	780	1100	mg/kg	176 J	**528 J**	**556 J**	**563 J**
Mercury	0.18	0.64	1.1	mg/kg	0.12 U	0.052 J	**0.4 J**	**0.62 J**
Nickel	23	36	49	mg/kg	6.9	22.5	**27.5**	**24.6**
Silver	1.6	1.9	2.2	mg/kg	1.1 U	1.5 U	0.26 J	0.65 J
Zinc	120	290	460	mg/kg	22.3	81.6	**126**	**152**
VOCS								
1,4-Dichlorobenzene	31	60.5	90	ug/kg	390 U	580 U	660 U	NS
Benzene	57	83.5	110	ug/kg	390 U	580 U	660 U	NS
Xylene	25	37.5	50	ug/kg	780 U	1160 U	1320 U	NS
SVOCS								
Dibenzofuran	150	365	580	ug/kg	240 U	280 UJ	92 J	NS

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-30 SUMMARY OF RESULTS BY LOCATION (SB14)
SUPERIOR BAY

				Location ID:	SW15-SB14				
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8
				TOC (mg/kg):	8980 J	38000 J	36700 J	16900 J	9760 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
PCB AROCLORS									
Total PCBs (ND=0)	60	368	676	ug/kg	10.9	6.3	54	NS	NS
PAHS									
2-Methylnaphthalene	20.2	111	201	ug/kg	20 J	**36 J**	**55**	**87 J**	25 U
Acenaphthene	6.7	48	89	ug/kg	**10 J**	**83**	**16 J**	**200 J**	25 U
Acenaphthylene	5.9	67	128	ug/kg	49 U	**6.3 J**	**6.1 J**	270 U	**11 J**
Anthracene	57.2	451	845	ug/kg	34 J	**110**	34	**340**	10 J
Benzo(a)anthracene	108	579	1050	ug/kg	90	**260**	**130**	**730**	**110**
Benzo(a)pyrene	150	800	1450	ug/kg	88	**210**	110	**650**	140
Benzo(b)fluoranthene	240	6820	13400	ug/kg	150	190	160	**780**	170
Benzo(e)pyrene	150	800	1450	ug/kg	72	150	86	NS	NS
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	59	120	80	**440**	85
Benzo(k)fluoranthene	240	6820	13400	ug/kg	47 J	200	59	**260 J**	47
Chrysene	166	728	1290	ug/kg	110	**250**	120	**710**	120
Dibenzo(a,h)anthracene	33	84	135	ug/kg	13 J	13 J	25 J	**99 J**	26
Fluoranthene	423	1327	2230	ug/kg	200	**920**	230	**1300**	130
Fluorene	77.4	307	536	ug/kg	16 J	73	22 J	**140 J**	25 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	55	110	70	**360**	82
Naphthalene	176	369	561	ug/kg	20 J	59 J	46	59 J	4.5 J
Phenanthrene	204	687	1170	ug/kg	120	**790**	200	**1400**	42
Pyrene	195	858	1520	ug/kg	**220**	**670**	**260**	**1800**	**230**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	1276.5	**4100.3**	**1623.1**	**9490**	1245
METALS									
Antimony	2	13.5	25	mg/kg	7 U	9.7 U	9 U	8.2 U	7.2 U
Cadmium	0.99	3	5	mg/kg	0.59 U1	0.81 U1	0.75 U1	0.68 U1	0.17 J
Chromium	43	76.5	110	mg/kg	10.8	16.2	31.9	17.4	9.8
Copper	32	91	150	mg/kg	9.6	9.8	22.7	19.3	5.7
Iron	20000	30000	40000	mg/kg	10000	12800	**21000**	14300	7900
Lead	36	83	130	mg/kg	8.4	7.7	20.2	23.2	3.9
Manganese	460	780	1100	mg/kg	215	255	373	206	124
Mercury	0.18	0.64	1.1	mg/kg	0.13 U	0.11 J	**0.5 J**	**0.59 J**	0.15 J
Nickel	23	36	49	mg/kg	9.1	12.6	22.5	12.9	6.9
Silver	1.6	1.9	2.2	mg/kg	1.1 J	1.6 U	1.5 U	0.17 J	1.2 U
Zinc	120	290	460	mg/kg	36.3	38	93.6	62.2	20

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-31 SUMMARY OF RESULTS BY LOCATION (SB15)
SUPERIOR BAY

				Location ID:	SW15-SB15		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	13400 J	38800 J	5500 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	0	37	5.8
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	13	NS	8.5
Acenaphthene	6.7	48	89	ug/kg	2.5 J	NS	2.1 J
Acenaphthylene	5.9	67	128	ug/kg	1.7 J	NS	0.96 J
Anthracene	57.2	451	845	ug/kg	8 J	NS	5.7
Benzo(a)anthracene	108	579	1050	ug/kg	32	NS	14
Benzo(a)pyrene	150	800	1450	ug/kg	42	NS	7.4
Benzo(b)fluoranthene	240	6820	13400	ug/kg	31	NS	10
Benzo(e)pyrene	150	800	1450	ug/kg	57	NS	6
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	41	NS	5.1
Benzo(k)fluoranthene	240	6820	13400	ug/kg	28	NS	3.5 J
Chrysene	166	728	1290	ug/kg	33	NS	13
Dibenzo(a,h)anthracene	33	84	135	ug/kg	11	NS	1.4 J
Fluoranthene	423	1327	2230	ug/kg	58	NS	26
Fluorene	77.4	307	536	ug/kg	6.9 J	NS	3.1 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	22	NS	4 J
Naphthalene	176	369	561	ug/kg	13	NS	6.9
Phenanthrene	204	687	1170	ug/kg	32	NS	28
Pyrene	195	858	1520	ug/kg	45	NS	34
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	420.1	NS	173.66
METALS							
Antimony	2	13.5	25	mg/kg	6.8 UJ	0.27 J	5.3 UJ
Cadmium	0.99	3	5	mg/kg	0.22 J	0.63 J+	0.44 U1
Chromium	43	76.5	110	mg/kg	22.8	35.7 J	8.8 J
Copper	32	91	150	mg/kg	7.2 J	23.4	4
Iron	20000	30000	40000	mg/kg	**22600**	**28300**	9270
Lead	36	83	130	mg/kg	7.7	27.4 J	6 J
Manganese	460	780	1100	mg/kg	240	394 J	91.8 J
Mercury	0.18	0.64	1.1	mg/kg	0.064 J	**0.43 J**	0.047 J
Nickel	23	36	49	mg/kg	10.4 J	21.3	5.4
Silver	1.6	1.9	2.2	mg/kg	1.1 UJ	0.27 J	0.88 U
Zinc	120	290	460	mg/kg	35.4 J	114	23

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-32 SUMMARY OF RESULTS BY LOCATION (SB16)
SUPERIOR BAY

				Location ID:	SW15-SB16				
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8
				TOC (mg/kg):	34000 J	41600 J	84300 J	1000 U	2310 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
PCB AROCLORS									
Total PCBs (ND=0)	60	368	676	ug/kg	40	**185**	**139**	NS	NS
PAHS									
2-Methylnaphthalene	20.2	111	201	ug/kg	**120 J**	**180**	**380**	4.3 U	30 U
Acenaphthene	6.7	48	89	ug/kg	**46 J**	**69 J**	**110 J**	4.3 U	30 U
Acenaphthylene	5.9	67	128	ug/kg	160 U	130 U	350 U	4.3 U	30 U
Anthracene	57.2	451	845	ug/kg	**150 J**	**170**	**240 J**	4.3 U	30 U
Benzo(a)anthracene	108	579	1050	ug/kg	**740**	**610**	**990**	2.4 J	24 J
Benzo(a)pyrene	150	800	1450	ug/kg	**740**	**550**	**840**	2.2 J	30
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**1400**	**990**	**1400**	3.7 J	38
Benzo(e)pyrene	150	800	1450	ug/kg	**640**	**470**	**700**	4.3 U	30 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**640**	**270**	**550**	3.4 J	19 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**420**	**330**	**520**	0.94 J	13 J
Chrysene	166	728	1290	ug/kg	**840**	**610**	**980**	2.5 J	23 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**140 J**	**88 J**	**150 J**	4.3 U	30 U
Fluoranthene	423	1327	2230	ug/kg	**1400**	**1200**	**1800**	2.9 J	29 J
Fluorene	77.4	307	536	ug/kg	72 J	**100 J**	**150 J**	4.3 U	30 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**590**	**270**	**480**	1.7 J	19 J
Naphthalene	176	369	561	ug/kg	88 J	110 J	**280 J**	4.3 U	30 U
Phenanthrene	204	687	1170	ug/kg	**790**	**870**	**1300**	2.2 J	14 J
Pyrene	195	858	1520	ug/kg	**1600**	**1000**	**1800**	7.1	54
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**9856**	**7482**	**12145**	44.09	368
METALS									
Antimony	2	13.5	25	mg/kg	0.5 J	9.8 U	1.2 J	6.2 U	7.9 U
Cadmium	0.99	3	5	mg/kg	0.83 U1	**1.1**	**2**	0.52 U1	0.12 J
Chromium	43	76.5	110	mg/kg	42.7	**45.3**	**45.6**	5.2	8.7
Copper	32	91	150	mg/kg	**46.1**	**48.9**	**82.1**	2.4 J	4.6
Iron	20000	30000	40000	mg/kg	**31800**	**29900**	**32600**	5500	8820
Lead	36	83	130	mg/kg	**43.1**	**66.4**	**135**	2.1	4.1
Manganese	460	780	1100	mg/kg	**594**	**490**	405	49	82.2
Mercury	0.18	0.64	1.1	mg/kg	0.11 J	**0.42 J**	**1.2 J**	0.12 U	0.15 U
Nickel	23	36	49	mg/kg	**29.6**	**28.3**	**31**	3.8 J	6.5
Silver	1.6	1.9	2.2	mg/kg	0.12 J	1.2 J	**2.5**	1 U	1.3 U
Zinc	120	290	460	mg/kg	**177**	**197**	**386**	8.5	17.2

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-33 SUMMARY OF RESULTS BY LOCATION (SB17)
SUPERIOR BAY

				Location ID:	SW15-SB17		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	1970 J	7730 J	55800 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	0	13.4	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	5.9 J	44 UJ	60 U
Acenaphthene	6.7	48	89	ug/kg	**6.9 J**	44 UJ	60 U
Acenaphthylene	5.9	67	128	ug/kg	1.1 J	**35 J**	**18 J**
Anthracene	57.2	451	845	ug/kg	12	23 J	14 J
Benzo(a)anthracene	108	579	1050	ug/kg	33	**470 J**	**130**
Benzo(a)pyrene	150	800	1450	ug/kg	32	**470 J**	**200**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	30	**250 J**	130
Benzo(e)pyrene	150	800	1450	ug/kg	25	**290 J**	150
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	20	**220 J**	130
Benzo(k)fluoranthene	240	6820	13400	ug/kg	29	**340 J**	130
Chrysene	166	728	1290	ug/kg	36	**390 J**	130
Dibenzo(a,h)anthracene	33	84	135	ug/kg	1.4 J	**56 J**	**39 J**
Fluoranthene	423	1327	2230	ug/kg	91	160	170
Fluorene	77.4	307	536	ug/kg	8.9 J	5.7 J	60 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	18	190 J	100
Naphthalene	176	369	561	ug/kg	7.2 J	44 U	18 J
Phenanthrene	204	687	1170	ug/kg	71 J+	43 J	51 J
Pyrene	195	858	1520	ug/kg	81	**210**	**200**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	484.4	**2928.7**	1550
METALS							
Antimony	2	13.5	25	mg/kg	6 U	5.8 U	8.2 U
Cadmium	0.99	3	5	mg/kg	0.5 U1	0.49 U1	0.68 U1
Chromium	43	76.5	110	mg/kg	8.1	9.2	27.3
Copper	32	91	150	mg/kg	6.9	6.2	14.9
Iron	20000	30000	40000	mg/kg	8420	8650	19200
Lead	36	83	130	mg/kg	4.1	6.7	7.6
Manganese	460	780	1100	mg/kg	106	118	398
Mercury	0.18	0.64	1.1	mg/kg	0.12 U	**0.26 J**	0.067 J
Nickel	23	36	49	mg/kg	7	6.7	20.1
Silver	1.6	1.9	2.2	mg/kg	1 U	0.97 U	1.4 U
Zinc	120	290	460	mg/kg	23.7	22.9	59.4
VOCS							
1,4-Dichlorobenzene	31	60.5	90	ug/kg	430 U	400 U	640 U
Benzene	57	83.5	110	ug/kg	430 U	400 U	640 U
Xylene	25	37.5	50	ug/kg	860 U	800 U	1280 U
SVOCS							
Dibenzofuran	150	365	580	ug/kg	240 U	230 U	310 U

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-34 SUMMARY OF RESULTS BY LOCATION (SB18)
SUPERIOR BAY

				Location ID:	SW15-SB18		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	46700 J	58600 J	38500 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	0	0	16.4
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**56**	**81**	**100**
Acenaphthene	6.7	48	89	ug/kg	4.8 J	60 U	**9.9 J**
Acenaphthylene	5.9	67	128	ug/kg	33 U	60 U	59 U
Anthracene	57.2	451	845	ug/kg	18 J	25 J	38 J
Benzo(a)anthracene	108	579	1050	ug/kg	68	98	**160**
Benzo(a)pyrene	150	800	1450	ug/kg	59	82	130
Benzo(b)fluoranthene	240	6820	13400	ug/kg	100	150	220
Benzo(e)pyrene	150	800	1450	ug/kg	52	75	110
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	39	60	90
Benzo(k)fluoranthene	240	6820	13400	ug/kg	24 J	44 J	70
Chrysene	166	728	1290	ug/kg	69	99	150
Dibenzo(a,h)anthracene	33	84	135	ug/kg	11 J	15 J	28 J
Fluoranthene	423	1327	2230	ug/kg	110	150	230
Fluorene	77.4	307	536	ug/kg	13 J	19 J	27 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	38	58 J	88
Naphthalene	176	369	561	ug/kg	40	62	83
Phenanthrene	204	687	1170	ug/kg	83	120	180
Pyrene	195	858	1520	ug/kg	140	**250**	**330**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	889.3	1373	**1963.4**
METALS							
Antimony	2	13.5	25	mg/kg	9.6 UJ	7.7 UJ	7.8 UJ
Cadmium	0.99	3	5	mg/kg	0.8 U1	0.7 J+	0.74 J+
Chromium	43	76.5	110	mg/kg	21.1 J	37.2 J	**46.7 J**
Copper	32	91	150	mg/kg	14	25.3	28.7
Iron	20000	30000	40000	mg/kg	13100	**23800**	**33100**
Lead	36	83	130	mg/kg	8.8 J	21.6 J	29.8 J
Manganese	460	780	1100	mg/kg	258 J	456 J	**562 J**
Mercury	0.18	0.64	1.1	mg/kg	0.12 J	**0.2 J**	**0.31 J**
Nickel	23	36	49	mg/kg	13.4	**23.6**	**30.1**
Silver	1.6	1.9	2.2	mg/kg	1.6 U	0.079 J	0.28 J
Zinc	120	290	460	mg/kg	51.8	106	**142**

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Red = Exceeds PEC

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-35 SUMMARY OF RESULTS BY LOCATION (SB19)
SUPERIOR BAY

				Location ID:	SW15-SB19		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	3270 J	10900 J	1430 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	6.5	13.5	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	6.1 J	**32**	4.1 U
Acenaphthene	6.7	48	89	ug/kg	3 J	**13 J**	4.1 U
Acenaphthylene	5.9	67	128	ug/kg	4 J	**11 J**	4.1 U
Anthracene	57.2	451	845	ug/kg	11	31	4.1 U
Benzo(a)anthracene	108	579	1050	ug/kg	41	**190**	4.1 U
Benzo(a)pyrene	150	800	1450	ug/kg	32	**160**	4.1 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	50	230	4.1 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	19	110	4.1 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	14	62	4.1 U
Chrysene	166	728	1290	ug/kg	42	160	4.1 U
Dibenzo(a,h)anthracene	33	84	135	ug/kg	5.6 J	28	4.1 U
Fluoranthene	423	1327	2230	ug/kg	96	250	1.4 J
Fluorene	77.4	307	536	ug/kg	7.9 J	17 J	4.1 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	17	90	4.1 U
Naphthalene	176	369	561	ug/kg	7.1 J	26	4.1 U
Phenanthrene	204	687	1170	ug/kg	64	140	4.1 UJ
Pyrene	195	858	1520	ug/kg	93	**340**	2.8 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	512.7	**1890**	34.95
METALS							
Antimony	2	13.5	25	mg/kg	6.4 UJ	6.9 UJ	0.25 J
Cadmium	0.99	3	5	mg/kg	0.54 U1	0.58 U1	0.5 U1
Chromium	43	76.5	110	mg/kg	8 J	21.1 J	5.3 J
Copper	32	91	150	mg/kg	4.7	11	1.5 J
Iron	20000	30000	40000	mg/kg	7750	15800	2670
Lead	36	83	130	mg/kg	3.3 J	12.5 J	2.2 J
Manganese	460	780	1100	mg/kg	86.6 J	242 J	41.8 J
Mercury	0.18	0.64	1.1	mg/kg	0.077 J	0.092 J	0.1 U
Nickel	23	36	49	mg/kg	4.7	13.3	1.2 J
Silver	1.6	1.9	2.2	mg/kg	1.1 U	1.2 U	0.99 U
Zinc	120	290	460	mg/kg	21.8	44.9	5.2 J
VOCS							
1,4-Dichlorobenzene	31	60.5	90	ug/kg	390 U	470 U	370 U
Benzene	57	83.5	110	ug/kg	390 U	470 U	370 U
Xylene	25	37.5	50	ug/kg	780 U	940 U	740 U
SVOCS							
Dibenzofuran	150	365	580	ug/kg	250 U	20 J	210 U

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-36 SUMMARY OF RESULTS BY LOCATION (SB20)
SUPERIOR BAY

				Location ID:	SW15-SB20				
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8
				TOC (mg/kg):	26300 J	49500 J	25400 J	29300 J	29800 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
PCB AROCLORS									
Total PCBs (ND=0)	60	368	676	ug/kg	23.2	0	40	NS	NS
PAHS									
2-Methylnaphthalene	20.2	111	201	ug/kg	**31**	**47**	**130**	**190 J**	**120 J**
Acenaphthene	6.7	48	89	ug/kg	4.2 J	**6.8 J**	**19 J**	**170 J**	**260 J**
Acenaphthylene	5.9	67	128	ug/kg	5.1 J	**8.8 J**	**26 J**	260 U	270 U
Anthracene	57.2	451	845	ug/kg	23 J	27 J	**73 J**	**360**	**280**
Benzo(a)anthracene	108	579	1050	ug/kg	83	**150**	**330**	**810**	**930**
Benzo(a)pyrene	150	800	1450	ug/kg	83	130	**340**	**650**	**830**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	100	160	360	790	970
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	57	90	240	390	430
Benzo(k)fluoranthene	240	6820	13400	ug/kg	86	130	340	290	380
Chrysene	166	728	1290	ug/kg	85	140	340	690	860
Dibenzo(a,h)anthracene	33	84	135	ug/kg	17 J	24 J	82 J	100 J	110 J
Fluoranthene	423	1327	2230	ug/kg	180 J	280 J	630	1400	1600
Fluorene	77.4	307	536	ug/kg	12 J	18 J	61 J	150 J	150 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	52	82	230	350	390
Naphthalene	176	369	561	ug/kg	33	50	150	190 J	140 J
Phenanthrene	204	687	1170	ug/kg	75	150	380	1400	1400
Pyrene	195	858	1520	ug/kg	140	240	510	1800	2100
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	1066.3	**1733.6**	**4241**	**9860**	**11085**
METALS									
Antimony	2	13.5	25	mg/kg	9.8 U	10.9 UJ	10.2 UJ	8.7 UJ	8.9 U
Cadmium	0.99	3	5	mg/kg	0.82 U1	0.62 J	**1.5 J**	0.41 J	0.47 J
Chromium	43	76.5	110	mg/kg	20.5	36.2	61.2	15.2	18.9
Copper	32	91	150	mg/kg	13.6	21.9 J	53.7 J	16.9 J	17.7
Iron	20000	30000	40000	mg/kg	16500	26000	48800	14300	17800
Lead	36	83	130	mg/kg	11.1	20.1	103	27.1	25.9
Manganese	460	780	1100	mg/kg	309	682	668	154	224
Mercury	0.18	0.64	1.1	mg/kg	0.13 J	0.21 J	0.82 J	0.6 J	0.43 J
Nickel	23	36	49	mg/kg	15.1	23.7 J	43.5 J	14.4 J	17.9
Silver	1.6	1.9	2.2	mg/kg	1.6 U	0.25 J	1.2 J	0.34 J	0.35 J
Zinc	120	290	460	mg/kg	64.7	110 J	281 J	76.7 J	86.7

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Red = Exceeds PEC

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-37 SUMMARY OF RESULTS BY LOCATION (SB21)
SUPERIOR BAY

				Location ID:	SW15-SB21			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	41100 J	47700 J	94500 J	1000 U1
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	56	**97**	43	NS
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	**99**	**120**	**180**	4.3 U
Acenaphthene	6.7	48	89	ug/kg	**23 J**	**25 J**	**40 J**	4.3 U
Acenaphthylene	5.9	67	128	ug/kg	88 U	**18 J**	**31 J**	4.3 U
Anthracene	57.2	451	845	ug/kg	**78 J**	**86**	**140**	4.3 U
Benzo(a)anthracene	108	579	1050	ug/kg	**390**	**420**	**560**	1.3 J
Benzo(a)pyrene	150	800	1450	ug/kg	**400**	**360**	**550**	4.3 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**800**	**620**	**920**	1.9 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**340**	**220**	**350**	11
Benzo(k)fluoranthene	240	6820	13400	ug/kg	240	170	**260**	4.3 U
Chrysene	166	728	1290	ug/kg	**450**	**400**	**530**	1.6 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**96**	**63 J**	**100**	4.3 U
Fluoranthene	423	1327	2230	ug/kg	**710**	**650**	**950**	2.2 J
Fluorene	77.4	307	536	ug/kg	40 J	42 J	**79**	4.3 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**330**	200	**340**	4.3 U
Naphthalene	176	369	561	ug/kg	84 J	110	140	4.3 U
Phenanthrene	204	687	1170	ug/kg	**350**	**370**	**550**	1.2 J
Pyrene	195	858	1520	ug/kg	**860**	**760**	**1000**	3.8 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**5334**	**4634**	**6720**	44.5
METALS								
Antimony	2	13.5	25	mg/kg	10.9 UJ	0.45 J	10.2 U	6.3 UJ
Cadmium	0.99	3	5	mg/kg	0.75 J	**1**	0.86	0.072 J
Chromium	43	76.5	110	mg/kg	42.9	36.4	20.6	4.5
Copper	32	91	150	mg/kg	**35.3**	**32.9**	**33.2**	2.2 J
Iron	20000	30000	40000	mg/kg	**33400**	**26500**	14900	3990
Lead	36	83	130	mg/kg	31 J	**43.1**	**48.3**	1.6 J
Manganese	460	780	1100	mg/kg	**659**	455	270	40.6
Mercury	0.18	0.64	1.1	mg/kg	**0.21 J**	**0.54 J**	**0.59 J**	0.13 U
Nickel	23	36	49	mg/kg	**28.4**	**25.9**	14.1	3.3 J
Silver	1.6	1.9	2.2	mg/kg	0.45 J	0.64 J	0.85 J	1.1 U
Zinc	120	290	460	mg/kg	**145**	**162**	**134**	8.4

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NOTES:

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-38 SUMMARY OF RESULTS BY LOCATION (SB22)
SUPERIOR BAY

				Location ID:	SW15-SB22		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	43300 J	51200 J	5580 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	50	**170**	16.2
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**94**	**120**	8.6 J
Acenaphthene	6.7	48	89	ug/kg	**20 J**	**48 J**	2.9 J
Acenaphthylene	5.9	67	128	ug/kg	**16 J**	**25 J**	1.6 J
Anthracene	57.2	451	845	ug/kg	**78**	**130**	6.3 J
Benzo(a)anthracene	108	579	1050	ug/kg	**270**	**550**	30 J
Benzo(a)pyrene	150	800	1450	ug/kg	**270**	**520**	22 J
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**470**	**870**	46 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	110	**210**	13 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	140	**280**	16
Chrysene	166	728	1290	ug/kg	**280**	**540**	30 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**40**	**93**	4.9
Fluoranthene	423	1327	2230	ug/kg	**510**	**940**	56
Fluorene	77.4	307	536	ug/kg	39	65 J	4.6
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	140	**270**	16 J
Naphthalene	176	369	561	ug/kg	91	110	7.8 J
Phenanthrene	204	687	1170	ug/kg	**280**	**570**	37
Pyrene	195	858	1520	ug/kg	**460**	**900**	54 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**3308**	**6241**	356.7
METALS							
Antimony	2	13.5	25	mg/kg	11.6 UJ	0.44 J	6.1 UJ
Cadmium	0.99	3	5	mg/kg	0.74 J	**1.8**	0.2 J
Chromium	43	76.5	110	mg/kg	39.1	**55.7**	12.9
Copper	32	91	150	mg/kg	**32.7**	**74.7**	9.1
Iron	20000	30000	40000	mg/kg	**35300**	**37200**	12100
Lead	36	83	130	mg/kg	24.9 J	**91.7 J**	7.1 J
Manganese	460	780	1100	mg/kg	**803**	**598**	151
Mercury	0.18	0.64	1.1	mg/kg	**0.2 J**	**0.83 J**	0.051 J
Nickel	23	36	49	mg/kg	**27.6**	**34.6**	9.6
Silver	1.6	1.9	2.2	mg/kg	0.33 J	**1.9**	1 U
Zinc	120	290	460	mg/kg	**130**	**303**	30.1

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-39 SUMMARY OF RESULTS BY LOCATION (SB23)
SUPERIOR BAY

				Location ID:	SW15-SB23				
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8
				TOC (mg/kg):	14800 J	4880 J	6650 J	80200 J	25200 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
PCB AROCLORS									
Total PCBs (ND=0)	60	368	676	ug/kg	26	0	0	NS	NS
PAHS									
2-Methylnaphthalene	20.2	111	201	ug/kg	**35**	4.1 J	1.2 J	7.7 U	6.5 U
Acenaphthene	6.7	48	89	ug/kg	6.3 J	0.78 J	6.1 U	7.7 U	6.5 U
Acenaphthylene	5.9	67	128	ug/kg	**6.9 J**	1.1 J	3.3 J	7.7 U	6.5 U
Anthracene	57.2	451	845	ug/kg	30	2.7 J	2.8 J	7.7 U	6.5 U
Benzo(a)anthracene	108	579	1050	ug/kg	**130**	13	35	7.7 U	6.5 U
Benzo(a)pyrene	150	800	1450	ug/kg	120	13	62	7.7 U	6.5 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	200	25	69	2.5 J	1.4 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	94	11	51	1.5 J	1.9 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	75	6.8	22	7.7 U	6.5 U
Chrysene	166	728	1290	ug/kg	130	11	36	2.3 J	1.4 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	26 J	3 J	12	2.2 J	6.5 U
Fluoranthene	423	1327	2230	ug/kg	190	17	30	1.8 J	1.1 J
Fluorene	77.4	307	536	ug/kg	14 J	1.8 J	1.2 J	7.7 U	6.5 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	84	9.7	40	3.9 J	6.5 U
Naphthalene	176	369	561	ug/kg	38	4 J	2 J	7.7 U	6.5 U
Phenanthrene	204	687	1170	ug/kg	96	10	8.1	7.7 U	6.5 U
Pyrene	195	858	1520	ug/kg	**230**	23	56	3.4 J	1.9 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	1505.2	156.98	434.65	56.1	46.7
METALS									
Antimony	2	13.5	25	mg/kg	7.9 U	6.5 U	8.9 U	11.4 U	8 U
Cadmium	0.99	3	5	mg/kg	0.66 U1	0.54 U1	0.74 U1	0.95 U1	0.42 J
Chromium	43	76.5	110	mg/kg	17.7	15.6	22.1	**45.4**	34.3
Copper	32	91	150	mg/kg	13	10.4	12	24.4	20
Iron	20000	30000	40000	mg/kg	15800	13300	18300	**33500**	**26300**
Lead	36	83	130	mg/kg	18.1	4.8	5.4	9	7.8
Manganese	460	780	1100	mg/kg	377	177	317	**985**	328
Mercury	0.18	0.64	1.1	mg/kg	**0.23 J**	0.12 U	0.18 U	0.22 U	0.18 U
Nickel	23	36	49	mg/kg	13.9	13	16.9	**36.2**	**26.7**
Silver	1.6	1.9	2.2	mg/kg	0.13 J	1.1 U	1.5 U	1.9 U	1.3 U
Zinc	120	290	460	mg/kg	68.7	31.2	39.6	99	73.3

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-40 SUMMARY OF RESULTS BY LOCATION (SB24)
SUPERIOR BAY

				Location ID:	SW15-SB24			
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	35500 J	42700 J	3480 J	520 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	38	**103**	0	NS
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	**83 J**	**120 J**	3.1 J	3.9 U
Acenaphthene	6.7	48	89	ug/kg	**39 J**	**160 J**	3.4 J	3.9 U
Acenaphthylene	5.9	67	128	ug/kg	**13 J**	**40 J**	2.5 J	3.9 U
Anthracene	57.2	451	845	ug/kg	**96 J**	**410 J**	11	3.9 U
Benzo(a)anthracene	108	579	1050	ug/kg	**420**	**1300 J**	42	3.9 U
Benzo(a)pyrene	150	800	1450	ug/kg	**410**	**1000**	44	3.9 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**640**	**1200 J**	38	3.9 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**350**	**650 J**	30	3.9 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**390**	**890**	39	3.9 U
Chrysene	166	728	1290	ug/kg	**480**	**1100**	38	3.9 U
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**110 J**	**230 J**	8.4 J	3.9 U
Fluoranthene	423	1327	2230	ug/kg	**1100**	**3000 J**	89	3.9 U
Fluorene	77.4	307	536	ug/kg	66 J	**200 J**	4.6 J	3.9 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**320**	**650 J**	25	3.9 U
Naphthalene	176	369	561	ug/kg	65 J	100 J	2.8 J	3.9 U
Phenanthrene	204	687	1170	ug/kg	**500**	**1900 J**	47	3.9 U
Pyrene	195	858	1520	ug/kg	**720**	**2100**	66	3.9 U
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**5802**	**15050**	493.8	33.15
METALS								
Antimony	2	13.5	25	mg/kg	9.2 UJ	9.8 UJ	6.8 UJ	5.2 UJ
Cadmium	0.99	3	5	mg/kg	0.52 J	0.75 J	0.16 J	0.097 J
Chromium	43	76.5	110	mg/kg	33.9	24	10.8	5.8
Copper	32	91	150	mg/kg	**35.3 J**	**36.1 J**	5.6 J	2.8 J
Iron	20000	30000	40000	mg/kg	**24800**	17400	6830	7690
Lead	36	83	130	mg/kg	34	**67.6**	2.4	1.7
Manganese	460	780	1100	mg/kg	374	205	78.4	48.8
Mercury	0.18	0.64	1.1	mg/kg	0.11 J	**0.32 J**	0.12 U	0.11 U
Nickel	23	36	49	mg/kg	20.1 J	16.2 J	3.9 J	3.2 J
Silver	1.6	1.9	2.2	mg/kg	0.098 J	0.35 J	1.1 UJ	0.87 UJ
Zinc	120	290	460	mg/kg	**127 J**	**158 J**	10 J	7.2 J
PESTICIDES								
Total DDT	5.3	289	572	ug/kg	7.1 U	3.8 J	NS	NS

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U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-41 SUMMARY OF RESULTS BY LOCATION (SB25)
SUPERIOR BAY

				Location ID:	SW15-SB25		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	18700 J	57000 J	10400 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	18.9	0	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**42 a**	8.1 J	4.4 U
Acenaphthene	6.7	48	89	ug/kg	**7.5 J a**	31 U	4.4 U
Acenaphthylene	5.9	67	128	ug/kg	31 U	**14 J a**	4.4 U
Anthracene	57.2	451	845	ug/kg	23 J	14 J	4.4 U
Benzo(a)anthracene	108	579	1050	ug/kg	**110**	**280**	0.99 J
Benzo(a)pyrene	150	800	1450	ug/kg	120	**420**	4.4 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	220	**420**	2.4 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	93 J	**280**	1.4 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	59 J	100	0.59 J
Chrysene	166	728	1290	ug/kg	130	**250**	1.4 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	22 J	**61**	4.4 U
Fluoranthene	423	1327	2230	ug/kg	180	200	1.3 J
Fluorene	77.4	307	536	ug/kg	13 J	4.7 J	4.4 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	81 J	**220**	4.4 U
Naphthalene	176	369	561	ug/kg	29 J	8.7 J	4.4 U
Phenanthrene	204	687	1170	ug/kg	110	36	0.78 J
Pyrene	195	858	1520	ug/kg	**220 J**	**390**	2.9 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	1475	**2722**	31.56
METALS							
Antimony	2	13.5	25	mg/kg	0.35 J	7.8 UJ	6.3 UJ
Cadmium	0.99	3	5	mg/kg	0.65 U1	0.65 U1	0.53 U1
Chromium	43	76.5	110	mg/kg	21.7 J	18.7 J	37.8 J
Copper	32	91	150	mg/kg	16.6	15.7	16.9
Iron	20000	30000	40000	mg/kg	15000	12900	**29400**
Lead	36	83	130	mg/kg	17.2 J	6 J	9 J
Manganese	460	780	1100	mg/kg	327 J	244 J	299 J
Mercury	0.18	0.64	1.1	mg/kg	0.071 J	0.072 J	0.11 U
Nickel	23	36	49	mg/kg	10.1	14.5	**24.6**
Silver	1.6	1.9	2.2	mg/kg	1.3 U	1.3 U	1.1 U
Zinc	120	290	460	mg/kg	63.2	36.9	82.9
VOCS							
1,4-Dichlorobenzene	31	60.5	90	ug/kg	670 U	840 U	340 U
Benzene	57	83.5	110	ug/kg	670 U	840 UJ	340 U
Xylene	25	37.5	50	ug/kg	1340 U	1680 U	680 U
SVOCS							
Dibenzofuran	150	365	580	ug/kg	320 U	320 U	230 U

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Red = Exceeds PEC

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-42 SUMMARY OF RESULTS BY LOCATION (SB26)
SUPERIOR BAY

				Location ID:	SW15-SB26		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	39000 J	70400 J	29300 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	24	**133**	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**95**	**470**	**100**
Acenaphthene	6.7	48	89	ug/kg	**19 J**	**87 J**	**16 J**
Acenaphthylene	5.9	67	128	ug/kg	85 U	**49 J**	**15 J**
Anthracene	57.2	451	845	ug/kg	**70 J**	**220**	**63**
Benzo(a)anthracene	108	579	1050	ug/kg	**340**	**910**	**240**
Benzo(a)pyrene	150	800	1450	ug/kg	**380**	**780**	**250**
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**780**	**1400**	**410**
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**320**	**460**	**190**
Benzo(k)fluoranthene	240	6820	13400	ug/kg	230	**430**	120
Chrysene	166	728	1290	ug/kg	**410**	**930**	**220**
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**76 J**	**120 J**	**52 J**
Fluoranthene	423	1327	2230	ug/kg	**660**	**1600**	380
Fluorene	77.4	307	536	ug/kg	34 J	**140 J**	36 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**290**	**410**	180
Naphthalene	176	369	561	ug/kg	82 J	**440**	65
Phenanthrene	204	687	1170	ug/kg	**320**	**1100**	**240**
Pyrene	195	858	1520	ug/kg	**800**	**1600**	**430**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**4948.5**	**11146**	**3007**
METALS							
Antimony	2	13.5	25	mg/kg	11.6 UJ	0.52 J	8.3 UJ
Cadmium	0.99	3	5	mg/kg	0.71 J	**2**	0.31 J
Chromium	43	76.5	110	mg/kg	39.7	**54.1**	14.8
Copper	32	91	150	mg/kg	**33.4**	**68.4**	11.1
Iron	20000	30000	40000	mg/kg	**32400**	**39600**	12700
Lead	36	83	130	mg/kg	31.1 J	**110 J**	14.1 J
Manganese	460	780	1100	mg/kg	**845**	**551**	157
Mercury	0.18	0.64	1.1	mg/kg	0.13 J	**1.5 J**	**0.31 J**
Nickel	23	36	49	mg/kg	**27**	**36.8**	9.8
Silver	1.6	1.9	2.2	mg/kg	0.22 J	**2**	0.09 J
Zinc	120	290	460	mg/kg	**138**	**354**	49.9

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-43 SUMMARY OF RESULTS BY LOCATION (SB27)
SUPERIOR BAY

				Location ID:	SW15-SB27		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	33800 J	12400 J	4430 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	0	0	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**28 J**	**36**	3.9 U
Acenaphthene	6.7	48	89	ug/kg	6.7 J	**10 J**	3.9 U
Acenaphthylene	5.9	67	128	ug/kg	**7.6 J**	**11 J**	3.9 U
Anthracene	57.2	451	845	ug/kg	48	31 J	0.27 J
Benzo(a)anthracene	108	579	1050	ug/kg	**140**	**150**	1.2 J
Benzo(a)pyrene	150	800	1450	ug/kg	140	**170**	1.3 J
Benzo(b)fluoranthene	240	6820	13400	ug/kg	190	230	1.6 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	100	130	1.3 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	130	160	1.4 J
Chrysene	166	728	1290	ug/kg	150	160	1.3 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	7.5 J	9.2 J	3.9 U
Fluoranthene	423	1327	2230	ug/kg	320	330	2.6 J
Fluorene	77.4	307	536	ug/kg	21 J	22 J	3.9 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	100	130	1 J
Naphthalene	176	369	561	ug/kg	37	54	3.9 U
Phenanthrene	204	687	1170	ug/kg	130	150	1.3 J
Pyrene	195	858	1520	ug/kg	**200**	**210**	2 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**1755.8**	**1993.2**	26.97
METALS							
Antimony	2	13.5	25	mg/kg	13.2 UJ	8.9 UJ	5.5 UJ
Cadmium	0.99	3	5	mg/kg	0.74 J	0.59 J	0.17 J
Chromium	43	76.5	110	mg/kg	**44.4**	32.2	12.1
Copper	32	91	150	mg/kg	**32.6**	25.1	12.3
Iron	20000	30000	40000	mg/kg	**39000**	**28600**	13200
Lead	36	83	130	mg/kg	24.3	24.3	3.3
Manganese	460	780	1100	mg/kg	**1390**	**620**	206
Mercury	0.18	0.64	1.1	mg/kg	0.14 J	0.17 J	0.12 U
Nickel	23	36	49	mg/kg	**32.4**	**24**	10.8
Silver	1.6	1.9	2.2	mg/kg	2.2 U	0.16 J	0.91 U
Zinc	120	290	460	mg/kg	**135**	105	20.5

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-44 SUMMARY OF RESULTS BY LOCATION (SB28)
SUPERIOR BAY

				Location ID:	SW15-SB28					
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8	8-10
				TOC (mg/kg):	37600	35200	52600	48700	44700	35000
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**						
PCB AROCLORS										
Total PCBs (ND=0)	60	368	676	ug/kg	12	**74**	7.6	NS	NS	NS
PAHS										
2-Methylnaphthalene	20.2	111	201	ug/kg	**54 J**	**44 J**	**160**	**36**	1.8 J	8 U
Acenaphthene	6.7	48	89	ug/kg	**11 J**	**18 J**	**42 J**	**15 J**	11 U	8 U
Acenaphthylene	5.9	67	128	ug/kg	**13 J**	**15 J**	**27 J**	**19 J**	11 U	8 U
Anthracene	57.2	451	845	ug/kg	51 J	**60 J**	**130**	**58**	1.8 J	8 U
Benzo(a)anthracene	108	579	1050	ug/kg	**210**	**220**	**420**	**220**	7.4 J	8 U
Benzo(a)pyrene	150	800	1450	ug/kg	**250**	**250**	**410**	**240**	11 U	8 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**310**	**250**	**400**	230	11	2.3 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	99	130	**220**	79	5.2 J	8 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**310**	**280**	**470**	240	11 U	8 U
Chrysene	166	728	1290	ug/kg	**250**	**280**	**460**	**240**	8.8 J	8 U
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**37 J**	14 J	**78**	30 J	11 U	8 U
Fluoranthene	423	1327	2230	ug/kg	**430**	**450**	**870**	**430**	9.8 J	1.8 J
Fluorene	77.4	307	536	ug/kg	31 J	32 J	73	33 J	2.4 J	1.4 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	130	150	**250**	97	8 J	8 U
Naphthalene	176	369	561	ug/kg	80	63 J	**180**	37	1.9 J	8 U
Phenanthrene	204	687	1170	ug/kg	160	180	**520**	**240**	7.4 J	2.2 J
Pyrene	195	858	1520	ug/kg	**330**	**330**	**630**	**360**	12	1.6 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**2756**	**2766**	**5340**	**2604**	105	57.3
METALS										
Antimony	2	13.5	25	mg/kg	17.2 UJ	0.4 J	0.38 J	10.9 UJ	17.4 UJ	11.9 UJ
Cadmium	0.99	3	5	mg/kg	1.4 U1	0.86 U1	0.65	0.91 U1	0.78 J	0.54 J
Chromium	43	76.5	110	mg/kg	**53 J**	35.3 J	26.5 J	**46.9 J**	**67.6**	**53.4**
Copper	32	91	150	mg/kg	**34.1**	30.3	24	28.9	30.4	23.7
Iron	20000	30000	40000	mg/kg	**47400 J**	**27300 J**	**21100 J**	**34700 J**	**50500**	**37900**
Lead	36	83	130	mg/kg	35.7	**42.3**	**37.3**	18.9	11	8
Manganese	460	780	1100	mg/kg	**2210**	**534**	429	**985**	**1850**	**1410**
Mercury	0.18	0.64	1.1	mg/kg	0.1 J+	**0.61 J+**	**0.46 J+**	0.082 J	0.29 U	0.23 U
Nickel	23	36	49	mg/kg	**37.4**	**25.2**	19.6	**34.4**	**46.5**	**35.5**
Silver	1.6	1.9	2.2	mg/kg	0.38 J	0.43 J	0.4 J	1.8 U	2.9 U	2 U
Zinc	120	290	460	mg/kg	**181**	**165**	**130**	112	**143**	105

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

Bolded = Exceeds TEC

Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-45 SUMMARY OF RESULTS BY LOCATION (SB29/SB30)
SUPERIOR BAY

				Location ID:	SW15-SB29		SW15-SB30			
				Depth Interval (feet):	0-0.5	0.5-2	0-0.5	0.5-2	2-4	4-6
				TOC (mg/kg):	63800	31500	535 J	300 J	375 J	23200 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**						
PCB AROCLORS										
Total PCBs (ND=0)	60	368	676	ug/kg	**79**	0	0	0	0	NS
PAHS										
2-Methylnaphthalene	20.2	111	201	ug/kg	**99 J**	**65 J**	4.2 U	4.1 U	4.1 U	**57**
Acenaphthene	6.7	48	89	ug/kg	130 U	**12 J**	4.2 U	4.1 U	4.1 U	**13 J**
Acenaphthylene	5.9	67	128	ug/kg	130 U	68 U	0.43 J	4.1 U	0.34 J	**9.9 J**
Anthracene	57.2	451	845	ug/kg	**68 J**	50 J	0.59 J	4.1 U	1.5 J	31
Benzo(a)anthracene	108	579	1050	ug/kg	**270**	**190**	3.3 J	1.5 J	3.7 J	**150**
Benzo(a)pyrene	150	800	1450	ug/kg	**280**	**210**	3.6 J	4.1 U	4.3	150
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**450**	**280**	5.8	2.8 J	4.5	180
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**190**	**250**	3.1 J	2.1 J	3.1 J	89
Benzo(k)fluoranthene	240	6820	13400	ug/kg	170	96	4.3	2.3 J	4.3	130
Chrysene	166	728	1290	ug/kg	**290**	**190**	3.5 J	1.9 J	3.9 J	160
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**50 J**	**46 J**	4.2 U	4.1 U	0.62 J	32
Fluoranthene	423	1327	2230	ug/kg	340	270	5.8 J	2.4 J	6.5	340
Fluorene	77.4	307	536	ug/kg	35 J	30 J	0.58 J	4.1 U	0.56 J	22 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	180	150	2.8 J	1.9 J	3.1 J	87
Naphthalene	176	369	561	ug/kg	71 J	45 J	1 J	4.1 U	1.2 J	47
Phenanthrene	204	687	1170	ug/kg	200	140	2.3 J	4.1 U	3.7 J	190
Pyrene	195	858	1520	ug/kg	**630**	**330**	6.1	3 J	6.7	**210**
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**3453**	**2388**	49.5	36.35	52.12	**1897.9**
METALS										
Antimony	2	13.5	25	mg/kg	21 UJ	11.9 UJ	0.26 J	6.1 UJ	5.8 UJ	6.4 UJ
Cadmium	0.99	3	5	mg/kg	**1.8**	0.99 U1	0.073 J	0.063 J	0.082 J	0.45 J
Chromium	43	76.5	110	mg/kg	**63.8 J**	34 J	6.6	3.8	5	18.5
Copper	32	91	150	mg/kg	**71.6**	31.8	2 J	2.1 J	2.1 J	15.6 J
Iron	20000	30000	40000	mg/kg	**43900 J**	**24700 J**	8160	4980	6300	16500
Lead	36	83	130	mg/kg	**88.9**	35.9	2.7	2.1	3.1	22.7
Manganese	460	780	1100	mg/kg	**723**	325	94.3	64	81.9	253
Mercury	0.18	0.64	1.1	mg/kg	**1.1 J+**	**0.79 J+**	0.11 U	0.11 U	0.11 U	**0.23 J**
Nickel	23	36	49	mg/kg	**40.2**	**24.2**	2.7 J	2.4 J	3.2 J	12.6 J
Silver	1.6	1.9	2.2	mg/kg	1.6 J	0.61 J	1 UJ	1 UJ	0.96 UJ	0.24 J
Zinc	120	290	460	mg/kg	**343**	**149**	10 J	8.8 J	12.2 J	78.9 J
VOCS										
1,4-Dichlorobenzene	31	60.5	90	ug/kg	380 U	280 U	400 U	340 U	340 U	NS
Benzene	57	83.5	110	ug/kg	380 U	280 U	400 U	340 U	340 U	NS
Xylene	25	37.5	50	ug/kg	760 U	560 U	800 U	680 U	680 U	NS
SVOCS										
Dibenzofuran	150	365	580	ug/kg	54 J	39 J	210 U	210 U	210 U	24 J

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-46 SUMMARY OF RESULTS BY LOCATION (SB31)
SUPERIOR BAY

				Location ID:	SW15-SB31	
				Depth Interval (feet):	0-0.5	0.5-2
				TOC (mg/kg):	40300	8360
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**		
PCB AROCLORS						
Total PCBs (ND=0)	60	368	676	ug/kg	25	0
PAHS						
2-Methylnaphthalene	20.2	111	201	ug/kg	**37 J**	4.6
Acenaphthene	6.7	48	89	ug/kg	**12 J**	1.1 J
Acenaphthylene	5.9	67	128	ug/kg	**8.4 J**	1.4 J
Anthracene	57.2	451	845	ug/kg	38 J	4.2 J
Benzo(a)anthracene	108	579	1050	ug/kg	**180**	19
Benzo(a)pyrene	150	800	1450	ug/kg	**230**	21
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**260**	33
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	120	14
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**270**	11
Chrysene	166	728	1290	ug/kg	**250**	22
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**43 J**	5
Fluoranthene	423	1327	2230	ug/kg	410	29
Fluorene	77.4	307	536	ug/kg	20 J	2.8 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	140	14
Naphthalene	176	369	561	ug/kg	39 J	3.6 J
Phenanthrene	204	687	1170	ug/kg	160	14
Pyrene	195	858	1520	ug/kg	**310**	32
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**2527.4**	231.7
METALS						
Antimony	2	13.5	25	mg/kg	18.9 UJ	6.4 UJ
Cadmium	0.99	3	5	mg/kg	1.6 U1	0.53 U1
Chromium	43	76.5	110	mg/kg	**44.4 J**	11.1 J
Copper	32	91	150	mg/kg	**51.6**	7.4
Iron	20000	30000	40000	mg/kg	**31600 J**	8130 J
Lead	36	83	130	mg/kg	**38.8**	7.3
Manganese	460	780	1100	mg/kg	**551**	99.8
Mercury	0.18	0.64	1.1	mg/kg	**0.3 J**	0.13 U
Nickel	23	36	49	mg/kg	**25.8**	5.9
Silver	1.6	1.9	2.2	mg/kg	0.49 J	1.1 U
Zinc	120	290	460	mg/kg	**206**	32

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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J = Indicates that the concentration is an estimated value.

J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-47 SUMMARY OF RESULTS BY LOCATION (SB32)
SUPERIOR BAY

				Location ID:	SW15-SB32					
				Depth Interval (feet):	0-0.5	0.5-2	2-4	4-6	6-8	8-10
				TOC (mg/kg):	3060 J	86100 J	63100 J	51500 J	44700 J	47000 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**						
PCB AROCLORS										
Total PCBs (ND=0)	60	368	676	ug/kg	0	0	25	NS	NS	NS
PAHS										
2-Methylnaphthalene	20.2	111	201	ug/kg	4.8	**24**	**37**	2.1 J	7.2 U	5.8 U
Acenaphthene	6.7	48	89	ug/kg	1 J	3.6 J	4 J	7.2 U	7.2 U	5.8 U
Acenaphthylene	5.9	67	128	ug/kg	0.92 J	2.8 J	4.1 J	7.2 U	7.2 U	5.8 U
Anthracene	57.2	451	845	ug/kg	6.3	8.9 J	16	1.4 J	0.6 J	5.8 U
Benzo(a)anthracene	108	579	1050	ug/kg	17	37 J	48	3.5 J	1.3 J	0.62 J
Benzo(a)pyrene	150	800	1450	ug/kg	16	32 J	46	2.6 J	7.2 U	5.8 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	22	41 J	55	4.6 J	7.2 U	5.8 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	13	22 J	34	3 J	3.5 J	3 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	20	32 J	45	2.3 J	7.2 U	5.8 U
Chrysene	166	728	1290	ug/kg	19	38 J	49	3.8 J	1.4 J	1.2 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	4.4 J	6.7 J	11	7.2 U	7.2 U	5.8 U
Fluoranthene	423	1327	2230	ug/kg	36	90 J	120 J	8.8	2.7 J	1.5 J
Fluorene	77.4	307	536	ug/kg	2.6 J	5.8 J	12	0.98 J	7.2 U	5.8 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	13	22 J	32	2.2 J	7.2 U	5.8 U
Naphthalene	176	369	561	ug/kg	4.8	32 J	45	2.4 J	7.2 U	5.8 U
Phenanthrene	204	687	1170	ug/kg	21	44 J	80	8.2	1.4 J	0.98 J
Pyrene	195	858	1520	ug/kg	27	55 J	86	4.9 J	2.1 J	1.1 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	228.82	496.8	724.1	61.58	49	40.3
METALS										
Antimony	2	13.5	25	mg/kg	6.2 UJ	11.1 UJ	0.33 J	9.5 UJ	10.1 UJ	8.5 UJ
Cadmium	0.99	3	5	mg/kg	0.14 J	0.23 J	0.85 J	0.52 J	0.49 J	0.28 J
Chromium	43	76.5	110	mg/kg	7.2	17.4	40	39.5	**48.5**	31.2
Copper	32	91	150	mg/kg	3.5 J	6.9 J	31.7 J	21.1 J	23.4 J	15.1 J
Iron	20000	30000	40000	mg/kg	9020	**20700**	**29700**	**27000**	**37100**	**21900**
Lead	36	83	130	mg/kg	3.8	8.5	**38.2**	8.6	9.8	6.4
Manganese	460	780	1100	mg/kg	134	203	**522**	**598**	318	173
Mercury	0.18	0.64	1.1	mg/kg	0.13 U	**0.48 J**	**0.63 J**	0.069 J	0.22 U	0.15 U
Nickel	23	36	49	mg/kg	4.5 J	7.9 J	**24.6 J**	**26 J**	**29.8 J**	18.3 J
Silver	1.6	1.9	2.2	mg/kg	1 UJ	1.9 UJ	0.39 J	1.6 UJ	1.7 UJ	1.4 UJ
Zinc	120	290	460	mg/kg	17.4 J	31.4 J	**139 J**	81.3 J	81.7 J	54.1 J

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-48 SUMMARY OF RESULTS BY LOCATION (SB33/SB34)
SUPERIOR BAY

				Location ID:	SW15-SB33		SW15-SB34	
				Depth Interval (feet):	0-0.5	0.5-2	0-0.5	0.5-2
				TOC (mg/kg):	7790	2220	685 J	710 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	0	0	0	5.6
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	8.9	0.96 J	1.1 J	1.4 J
Acenaphthene	6.7	48	89	ug/kg	5.6 J	4.2 U	4.5 U	4 U
Acenaphthylene	5.9	67	128	ug/kg	2 J	4.2 U	4.5 U	4 U
Anthracene	57.2	451	845	ug/kg	15	4.2 U	4.5 U	1 J
Benzo(a)anthracene	108	579	1050	ug/kg	47	2.7 J	3.1 J	4.6
Benzo(a)pyrene	150	800	1450	ug/kg	51	4.2 U	3.4 J	5.6
Benzo(b)fluoranthene	240	6820	13400	ug/kg	79	4.7	5.7	6.8
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	27	2.5 J	2.7 J	3.1 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	25	1.4 J	2 J	2.4 J
Chrysene	166	728	1290	ug/kg	48	3.2 J	3.9 J	4.8
Dibenzo(a,h)anthracene	33	84	135	ug/kg	9.7	1.2 J	0.94 J	1.3 J
Fluoranthene	423	1327	2230	ug/kg	54	3.5 J	4.1 J	5.7
Fluorene	77.4	307	536	ug/kg	9.5	4.2 U	4.5 U	0.82 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	29	3 J	2.6 J	3.4 J
Naphthalene	176	369	561	ug/kg	7.6	0.94 J	1.2 J	1.4 J
Phenanthrene	204	687	1170	ug/kg	43	1.7 J	2.2 J	3.1 J
Pyrene	195	858	1520	ug/kg	87	5.9	7	8.5
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	548.3	42.2	48.94	57.92
METALS								
Antimony	2	13.5	25	mg/kg	7.3 UJ	6 UJ	6.2 UJ	5.2 UJ
Cadmium	0.99	3	5	mg/kg	0.14 J	0.065 J	0.087 J	0.08 J
Chromium	43	76.5	110	mg/kg	7.5	8	6.4	6.1
Copper	32	91	150	mg/kg	7.6	4.1	2.2 J	3
Iron	20000	30000	40000	mg/kg	7910	6310	7950	7460
Lead	36	83	130	mg/kg	5.4	2.5	2.7	3.4
Manganese	460	780	1100	mg/kg	238 J	75.3 J	106 J	76.2 J
Mercury	0.18	0.64	1.1	mg/kg	0.15 U	0.11 U	0.12 U	0.11 U
Nickel	23	36	49	mg/kg	4.7 J	3.7 J	3.1 J	3.4 J
Silver	1.6	1.9	2.2	mg/kg	1.2 U	1 U	1 U	0.87 U
Zinc	120	290	460	mg/kg	27.1	12.8	11.2	13.1
VOCS								
1,4-Dichlorobenzene	31	60.5	90	ug/kg	470 U	340 U	370 U	330 U
Benzene	57	83.5	110	ug/kg	470 U	340 U	370 U	330 U
Xylene	25	37.5	50	ug/kg	940 U	680 U	740 U	660 U
SVOCS								
Dibenzofuran	150	365	580	ug/kg	240 U	210 U	230 U	210 U

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NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

B = Blank contamination.

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J+ = Analyte present. Reported value may be biased high. Result is estimated high.

J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-49 SUMMARY OF RESULTS BY LOCATION (SB35)
SUPERIOR BAY

				Location ID:	SW15-SB35		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	29200 J	37500 J	7240 J
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	27	**97**	13.8
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**44**	**82**	5.8
Acenaphthene	6.7	48	89	ug/kg	6.7 J	**24 J**	1.5 J
Acenaphthylene	5.9	67	128	ug/kg	**7.9 J**	**22 J**	1.2 J
Anthracene	57.2	451	845	ug/kg	34	**92**	3.6 J
Benzo(a)anthracene	108	579	1050	ug/kg	**140**	**360**	20
Benzo(a)pyrene	150	800	1450	ug/kg	140	**360**	17
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**250**	**600**	34
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	87	**210**	11
Benzo(k)fluoranthene	240	6820	13400	ug/kg	86	210	9.1
Chrysene	166	728	1290	ug/kg	140	**360**	19
Dibenzo(a,h)anthracene	33	84	135	ug/kg	29	**74 J**	3.7 J
Fluoranthene	423	1327	2230	ug/kg	240	**540**	33
Fluorene	77.4	307	536	ug/kg	18	44 J	2.7 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	100	**240**	12
Naphthalene	176	369	561	ug/kg	50	100	6.2
Phenanthrene	204	687	1170	ug/kg	110	**310**	20
Pyrene	195	858	1520	ug/kg	**250**	**570**	32
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**1732.6**	**4198**	231.8
METALS							
Antimony	2	13.5	25	mg/kg	13.9 UJ	10.9 UJ	0.28 J
Cadmium	0.99	3	5	mg/kg	0.85 J	**1.4**	0.19 J
Chromium	43	76.5	110	mg/kg	**56.1**	**55.3**	8.9
Copper	32	91	150	mg/kg	**39.1**	**48.4**	6.1
Iron	20000	30000	40000	mg/kg	**50200**	**44200**	9010
Lead	36	83	130	mg/kg	29.6 J	**50.2 J**	6.3 J
Manganese	460	780	1100	mg/kg	**1860**	**892**	97.1
Mercury	0.18	0.64	1.1	mg/kg	0.17 J	**0.37 J**	**0.19 J**
Nickel	23	36	49	mg/kg	**42**	**39.7**	6.2
Silver	1.6	1.9	2.2	mg/kg	0.16 J	0.87 J	1.1 U
Zinc	120	290	460	mg/kg	**164**	**210**	25.4

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

NOTES:

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Bolded+Shaded = Exceeds MEC

Red = Exceeds PEC

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J- = Analyte present. Reported value may be biased low. Result is estimated low.

U = Indicates the analyte was analyzed for but not detected.

U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-50 SUMMARY OF RESULTS BY LOCATION (SB36)
SUPERIOR BAY

				Location ID:	SW15-SB36		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	39700	141000	31300
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	25	0	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	**82 J**	1.4 J	5.5 U
Acenaphthene	6.7	48	89	ug/kg	**9.6 J**	7.5 U	5.5 U
Acenaphthylene	5.9	67	128	ug/kg	**15 J**	0.99 J	5.5 U
Anthracene	57.2	451	845	ug/kg	**69 J**	1.2 J	5.5 U
Benzo(a)anthracene	108	579	1050	ug/kg	**260**	3.2 J	5.5 U
Benzo(a)pyrene	150	800	1450	ug/kg	**290**	7.5 U	5.5 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	**320**	5.2 J	5.5 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	**180**	2.6 J	5.5 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	**350**	4.1 J	5.5 U
Chrysene	166	728	1290	ug/kg	**310**	3.9 J	5.5 U
Dibenzo(a,h)anthracene	33	84	135	ug/kg	**62 J**	1 J	5.5 U
Fluoranthene	423	1327	2230	ug/kg	**500**	7.9	2.6 J
Fluorene	77.4	307	536	ug/kg	27 J	0.73 J	5.5 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	**210**	2.6 J	5.5 U
Naphthalene	176	369	561	ug/kg	89 J	1.4 J	5.5 U
Phenanthrene	204	687	1170	ug/kg	**210**	7.4 J	2.3 J
Pyrene	195	858	1520	ug/kg	**380**	7.3 J	1.7 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	**3363.6**	58.42	45.1
METALS							
Antimony	2	13.5	25	mg/kg	11.4 UJ	5.9 UJ	9.3 UJ
Cadmium	0.99	3	5	mg/kg	**1.1 J+**	0.5 U1	0.77 U1
Chromium	43	76.5	110	mg/kg	**44.9**	31.5	6.9
Copper	32	91	150	mg/kg	**34.2**	23	3.9
Iron	20000	30000	40000	mg/kg	**34700**	**20800**	3740
Lead	36	83	130	mg/kg	**49.5**	7	2.1
Manganese	460	780	1100	mg/kg	**1210**	**822**	196
Mercury	0.18	0.64	1.1	mg/kg	**0.3**	0.028 J-	0.17 U
Nickel	23	36	49	mg/kg	**35.4**	**28.1**	3.4 J
Silver	1.6	1.9	2.2	mg/kg	0.51 J	0.99 U	1.5 U
Zinc	120	290	460	mg/kg	**197**	76.5	10.9

* = Source: Consensus-Based Sediment Quality Guidelines, Recommendations for Use and Application, Publication No. WT-732 2003, WDNR December 2003.

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U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-51 SUMMARY OF RESULTS BY LOCATION (SB37/SB38)
SUPERIOR BAY

				Location ID:	SW15-SB37		SW15-SB38	
				Depth Interval (feet):	0-0.5	0.5-2	0-0.5	0.5-2
				TOC (mg/kg):	1690 J	6740	7210	1440
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**				
PCB AROCLORS								
Total PCBs (ND=0)	60	368	676	ug/kg	0	6.6	13	0
PAHS								
2-Methylnaphthalene	20.2	111	201	ug/kg	1.4 J	19	9.4	4.2 U
Acenaphthene	6.7	48	89	ug/kg	0.44 J	3.8 J	1.7 J	4.2 U
Acenaphthylene	5.9	67	128	ug/kg	0.46 J	3.9 J	2.4 J	4.2 U
Anthracene	57.2	451	845	ug/kg	1.8 J	16	10	4.2 U
Benzo(a)anthracene	108	579	1050	ug/kg	6.1 J	60	33	0.24 J
Benzo(a)pyrene	150	800	1450	ug/kg	6.6 J	58	39	4.2 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	8.7 J	68	50	4.2 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	5.7 J	47	17	4.2 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	6.8 J	65	40	4.2 U
Chrysene	166	728	1290	ug/kg	6.6 J	60	39	0.45 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	1.7 J	15	8.2	4.2 U
Fluoranthene	423	1327	2230	ug/kg	21 J	120	66	0.5 J
Fluorene	77.4	307	536	ug/kg	1.1 J	9.9 J	4.5 J	4.2 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	6 J	44	21	4.2 U
Naphthalene	176	369	561	ug/kg	1.8 J	19	9.5	4.2 U
Phenanthrene	204	687	1170	ug/kg	6.5 J	67	30	4.2 U
Pyrene	195	858	1520	ug/kg	10 J	90	49	0.67 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	92.7	765.6	429.7	29.16
METALS								
Antimony	2	13.5	25	mg/kg	7.4 UJ	5.9 UJ	6.5 UJ	7 UJ
Cadmium	0.99	3	5	mg/kg	0.08 J	0.25 J	0.21 J	0.069 J
Chromium	43	76.5	110	mg/kg	5.4	12.1	11.2	11.1
Copper	32	91	150	mg/kg	2.4 J	8.3	8.1	3
Iron	20000	30000	40000	mg/kg	6320	11200	10300	8230
Lead	36	83	130	mg/kg	2.7	12.1	8.3	3.5
Manganese	460	780	1100	mg/kg	116 J	195 J	387 J	67.8 J
Mercury	0.18	0.64	1.1	mg/kg	0.12 U	0.071 J	0.051 J	0.11 U
Nickel	23	36	49	mg/kg	3.3 J	7.6	6.8	3.8 J
Silver	1.6	1.9	2.2	mg/kg	1.2 U	0.99 U	1.1 U	1.2 U
Zinc	120	290	460	mg/kg	12.7	43.3	37.6	10.8

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U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-52 SUMMARY OF RESULTS BY LOCATION (SB39/SB40)
SUPERIOR BAY

				Location ID:	SW15-SB39			SW15-SB40	
				Depth Interval (feet):	0-0.5	0.5-2	2-4	0-0.5	0.5-2
				TOC (mg/kg):	10200	30700	18500	4350	4040
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**					
PCB AROCLORS									
Total PCBs (ND=0)	60	368	676	ug/kg	14.2	9.6	0	31	12.6
PAHS									
2-Methylnaphthalene	20.2	111	201	ug/kg	14	**51 J**	1.1 J	**43 J**	7.4 J
Acenaphthene	6.7	48	89	ug/kg	3.3 J	**9.2 J**	4.6 U	**61 J**	**7 J**
Acenaphthylene	5.9	67	128	ug/kg	3 J	**12 J**	1.5 J	96 U	1.3 J
Anthracene	57.2	451	845	ug/kg	11	35 J	2 J	**150**	18 J
Benzo(a)anthracene	108	579	1050	ug/kg	49	**150**	13	**370**	56 J
Benzo(a)pyrene	150	800	1450	ug/kg	51	150	19	**270**	52 J
Benzo(b)fluoranthene	240	6820	13400	ug/kg	65	180	16	**390**	61 J
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	39	110	17	140	30 J
Benzo(k)fluoranthene	240	6820	13400	ug/kg	58	140	14	130	54 J
Chrysene	166	728	1290	ug/kg	50	150	13	**340**	56 J
Dibenzo(a,h)anthracene	33	84	135	ug/kg	14	**39 J**	3.9 J	**52 J**	9.4 J
Fluoranthene	423	1327	2230	ug/kg	110	300	15	**900**	150 J
Fluorene	77.4	307	536	ug/kg	5.9 J	28 J	1.2 J	**88 J**	9 J
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	38	97	13	150	30 J
Naphthalene	176	369	561	ug/kg	15	50 J	1.7 J	55 J	9.3 J
Phenanthrene	204	687	1170	ug/kg	43	170	7.1	**970**	87 J
Pyrene	195	858	1520	ug/kg	72	**240**	17	**890**	110 J
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	641.2	**1911.2**	157.8	**5047**	747.4
METALS									
Antimony	2	13.5	25	mg/kg	7.7 UJ	9.5 UJ	6.7 UJ	7.3 UJ	6.1 UJ
Cadmium	0.99	3	5	mg/kg	0.2 J	0.53 J	0.2 J	0.12 J	0.12 J
Chromium	43	76.5	110	mg/kg	12.7	23.6	17.5	7.3	6.6
Copper	32	91	150	mg/kg	7	16.6	8.3	8.9	7.2
Iron	20000	30000	40000	mg/kg	13000	18000	13600	9760	7960
Lead	36	83	130	mg/kg	7.7	22.2	5.1	9.2	6.7
Manganese	460	780	1100	mg/kg	359 J	305 J	247 J	121 J	77.8 J
Mercury	0.18	0.64	1.1	mg/kg	0.06 J	**0.21 J+**	0.14 U	0.079 J	0.11 U
Nickel	23	36	49	mg/kg	7.3	14.6	9.6	6.3	7.6
Silver	1.6	1.9	2.2	mg/kg	1.3 U	0.13 J	1.1 U	1.2 U	1 U
Zinc	120	290	460	mg/kg	35.1	80	28.7	26.9	17.9

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U1 = Indicates that the concentration is not detected substantially above the level reported in laboratory or field blanks.

µg/kg = Micrograms per kilogram.

mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

TABLE D-53 SUMMARY OF RESULTS BY LOCATION (SB41)
SUPERIOR BAY

				Location ID:	SW15-SB41		
				Depth Interval (feet):	0-0.5	0.5-2	2-4
				TOC (mg/kg):	5350	10400	39200
ANALYTE	**TEC***	**MEC***	**PEC***	**UNIT**			
PCB AROCLORS							
Total PCBs (ND=0)	60	368	676	ug/kg	12.7	17.7	0
PAHS							
2-Methylnaphthalene	20.2	111	201	ug/kg	17 J	18 J	59 U
Acenaphthene	6.7	48	89	ug/kg	**12 J**	**43 J**	59 U
Acenaphthylene	5.9	67	128	ug/kg	44 U	**16 J**	59 U
Anthracene	57.2	451	845	ug/kg	33 J	**77**	59 U
Benzo(a)anthracene	108	579	1050	ug/kg	97	**200**	59 U
Benzo(a)pyrene	150	800	1450	ug/kg	76	**160**	59 U
Benzo(b)fluoranthene	240	6820	13400	ug/kg	120	220	59 U
Benzo(e)pyrene	150	800	1450	ug/kg	51	110	59 U
Benzo(g,h,i)perylene	170	1685	3200	ug/kg	50	98	59 U
Benzo(k)fluoranthene	240	6820	13400	ug/kg	34 J	89	59 U
Chrysene	166	728	1290	ug/kg	94	**180**	59 U
Dibenzo(a,h)anthracene	33	84	135	ug/kg	15 J	26 J	59 U
Fluoranthene	423	1327	2230	ug/kg	180	**450**	59 U
Fluorene	77.4	307	536	ug/kg	18 J	50 J	59 U
Indeno(1,2,3-cd)pyrene	200	1700	3200	ug/kg	46	91	59 U
Naphthalene	176	369	561	ug/kg	12 J	15 J	59 U
Phenanthrene	204	687	1170	ug/kg	160	**440**	59 U
Pyrene	195	858	1520	ug/kg	**260**	**470**	59 U
Total PAH17 (ND=1/2RL)	1610	12205	22800	ug/kg	1246	**2643**	501.5
METALS							
Antimony	2	13.5	25	mg/kg	5.6 UJ	8.8 UJ	7.1 UJ
Cadmium	0.99	3	5	mg/kg	0.12 J	0.25 J	0.24 J
Chromium	43	76.5	110	mg/kg	7.8	16.8	14.6
Copper	32	91	150	mg/kg	5.3	12.7	10.4
Iron	20000	30000	40000	mg/kg	7730	14400	12900
Lead	36	83	130	mg/kg	5.1	7.8	3.8
Manganese	460	780	1100	mg/kg	165 J	245 J	202 J
Mercury	0.18	0.64	1.1	mg/kg	0.13 U	0.038 J	0.047 J
Nickel	23	36	49	mg/kg	5.2	12	10.9
Silver	1.6	1.9	2.2	mg/kg	0.93 U	1.5 U	1.2 U
Zinc	120	290	460	mg/kg	21	38.8	27.7
VOCS							
1,4-Dichlorobenzene	31	60.5	90	ug/kg	360 U	480 U	540 U
Benzene	57	83.5	110	ug/kg	360 U	480 U	540 U
Xylene	25	37.5	50	ug/kg	720 U	960 U	1080 U
SVOCS							
Dibenzofuran	150	365	580	ug/kg	230 U	31 J	240 U

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mg/kg = Milligrams per kilogram.

PEC = Probable Effect Concentration.

MEC = Midpoint Effect Concentration.

NS = Not sampled.

TEC = Threshold Effect Concentration.

TOC = Total organic carbon

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